

AD-A159 634

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# DATA PROCESSING BRANCH USAFETAC Air Weather Service ( MAC )

REVISED UNITED STATES  
SURFACE WEATHER OBSERVATIONS

STATION: 79 20 227 26 227 26 26  
TIME: 0000 - 2300

TIME OF REPORT: 19 MAY 1985

NUMBER OF OBSERVATIONS: 71 - 83  
SURFACE OF DAY DATA: 50 - 83

TIME CONVERSION: GMT TO DST: +1

19 MAY 1985

APIS TECHNICAL  
PL 4114  
SCOTT AFB IL  
15 MAY 1985

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FOR THE COMMANDER

*Wayne E. McCollom*

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AD-A159634

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS	
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited.	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE		4. PERFORMING ORGANIZATION REPORT NUMBER(S) USAFETAC/DS-85/015	
6a. NAME OF PERFORMING ORGANIZATION USAFETAC/OL-A		6b. OFFICE SYMBOL (If applicable)	5. MONITORING ORGANIZATION REPORT NUMBER(S) USAFETAC/DS-85/015
6c. ADDRESS (City, State, and ZIP Code) Federal Building Asheville, NC 28801		7a. NAME OF MONITORING ORGANIZATION USAFETAC	
8a. NAME OF FUNDING/SPONSORING ORGANIZATION		8b. OFFICE SYMBOL (If applicable)	7b. ADDRESS (City, State, and ZIP Code) Scott AFB, IL 62225-5438
8c. ADDRESS (City, State, and ZIP Code)		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) RAMSTEIN AB WEST GERMANY (RUSSWO) (Unclassified)			
12. PERSONAL AUTHOR(S)			
13a. TYPE OF REPORT Data Summary	13b. TIME COVERED FROM JAN 74 TO DEC 83	14. DATE OF REPORT (Year, Month, Day) MAY 85	15. PAGE COUNT 320
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	*climatology *weather Meteorological conditions
04	02		(continued over)
19. ABSTRACT (Continue on reverse if necessary and identify by block number) -A six-part statistical data summary of surface weather observation climatology for: RAMSTEIN AB WEST GERMANY. Summary consists of: PART A, Weather Conditions and Atmospheric Phenomena; PART B, Precipitation; PART C, Surface Winds; PART D, Ceiling and Visibility; PART E, Psychrometric Summaries; PART F, Pressure Summaries. See USAFETAC/TN-83/001 (AD-A132186), An Aid for Using the Revised Uniform Summary of Surface Weather Observations (RUSSWOs) for complete descriptions of contents and instructions for use.			
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL Marie Wakefield		22b. TELEPHONE (Include Area Code) (618) 256-2625	22c. OFFICE SYMBOL USAFETAC/LDD

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18. Subject terms cont.

winds      preceipitation      temperature      visibility

barometric pressure      relative humidity

sky cover      psychrometric data      ceiling

Revised Uniform Summary of Surface Weather Observations  
RUSSWO

RAMSTEIN AB WEST GERMANY

DL 106140

UNCLASSIFIED



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

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

### DAILY OBSERVATIONS

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

### DESCRIPTION OF SUMMARIES

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

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

PART A WEATHER CONDITIONS  
ATMOSPHERIC PHENOMENA

PART B PRECIPITATION  
SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY  
SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE DATA AVAILABLE

### STANDARD 3-HOUR GROUPS

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

### MISSING HOUR GROUPS

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

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_

STATION NO OR SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
106140	RAMSTEIN AB GERMANY	N 49 26	E 007 36	782 Ft	EDAR	10614

### STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1	Ramstein AB Germany	AB	MAR 52	MAR 63	N 49 25	E 007 35	789 ft	808 ft	24
2	Same	Same	APR 63	MAY 68	Same	Same	Same	826 ft	24
3	Same	Same	JUN 68	MAR 69	Same	Same	Same	777 ft	24
4	Same	Same	APR 69	DEC 70	N 49 26	Same	Same	Same	24
5	Same	Same	JAN 71	FEB 78	Same	Same	780 ft	Same	24
6	Same	Same	Feb 78	Dec 84	Same	E 007 36	782 ft	same	24

NOTE: WEATHER MODIFICATION CONDUCTED (WINTER 68-69) (REF AWSTR-74-247)

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	MAR 52	Located 400 ft N of midpoint of the runway.	AN/GM <sub>2</sub> 1	N/A	20 ft	
2	JUL 61	Located 500 ft N of GCA touchdown point of runway 27.	AN/GM <sub>2</sub> 1	RO-2	13 ft	
3	APR 64	Located 500 ft N of GCA touchdown point on both runway 09 and 27.	Same	Same	Same	
4	JUN 68	Located 500 ft from center of runway & 1407 ft from touchdown point of runway 27 & 1300 ft from touchdown point of runway 09.	Same	Same	13 1/2 ft	
5	APR 69	1. Located 500 ft from centerline and 1500 ft from end of runway 27.	AN/GM <sub>2</sub> 1	RO-2	13 ft	

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
6	Jan 71	2. Located 500 ft from centerline and 1450 ft from end of rnwy 09.	Same		Same	
		1. Same	Same	AN-362	Same	
7	Jan 84	2. Located 500 ft from centerline and 1400 ft from end of rnwy 09.	Same		Same	
		1. Same	AN/GMQ-20	Same	Same	
		2. Located 440 ft from centerline and 1400 ft from end of rnwy 09.	AN/GMQ-20	Same	Same	



## PART A

## WEATHER CONDITIONS

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

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

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

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

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

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

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

Hail - Occurrences of hail and small hail are included.

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

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

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

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

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

Continued on Reverse

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

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

USAFEC CLIMATOLOGY BRANCH  
 USAFETAC  
 517 WEATHER SERVICE/440

## WEATHER CONDITIONS

140 WALSLEY AB GERMANY 74-53 YEARS JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	01-31		17.0	0.4	7.0		25.5	32.7	5.0			40.0	928
	01-05		19.9	1.0	7.0		27.3	36.0	4.0			42.0	930
	06-10		20.5	1.2	7.0		28.4	33.5	5.0			39.7	940
	11-15		19.9	1.1	9.4		26.1	34.5	7.0			41.0	930
	16-20		19.9	1.3	9.4		29.9	24.0	12.7			38.7	930
	21-25		17.5	1.5	3.7		29.1	17.1	17.0			34.1	930
	26-31	.1	17.1	1.1	5.3		25.7	22.5	15.1			35.0	930
	TOTALS		19.3	1.1	3.4		27.5	29.5	12.3			38.9	7438

FEDERAL CLIMATOLOGY BRANCH  
 STAFF TAG  
 AIR WEATHER SERVICE, WMAO

# WEATHER CONDITIONS

100147 STATION    KAMSTEIN AB GERMANY    STATION NAME    74-83    YEARS    FEB    MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
FEB	01-31		12.0	.1	5.3		19.1	32.2	13.1			45.2	945
	07-09		13.0	.2	7.2		20.3	35.0	11.8			46.0	945
	05-06		12.9	.7	8.3		21.7	34.4	11.9			45.2	945
	09-11		10.1	.5	10.4		20.4	34.3	10.7			41.4	345
	10-14	.1	13.5	.4	12.1		27.2	19.7	20.4			40.2	945
	15-17	.1	14.2	.2	9.1		22.5	11.2	24.9			35.2	945
	19-20		13.1	.4	5.3		19.1	12.3	24.7			37.0	945
	21-23		13.0	.7	5.2		19.1	21.5	17.0	.2		39.6	945
TOTALS		.0	14.0	.4	3.1		21.0	25.2	17.5	.0		42.0	5763

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

## WEATHER CONDITIONS

170147 STATION RAMSTEIN AB GERMANY 74-33 YEARS MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAR	00-24		22.2		1.7		21.1	21.2	5.3			29.5	930
	03-06		20.3		1.3	.1	22.0	25.9	5.3			32.7	930
	06-09		20.5		2.3		22.2	31.0	3.1			29.2	930
	09-12		20.0		3.3		22.3	29.0	15.7			44.7	930
	12-15	.1	17.5		3.1	.4	20.0	12.2	20.5			32.5	930
	15-18	.1	13.5		2.7	.2	20.3	3.2	17.3			22.5	930
	18-21	.2	15.9		1.3	.1	22.2	2.3	16.5			19.2	930
	21-24	.2	17.3		1.4		18.5	12.0	13.3			25.4	930
TOTALS		.1	19.2		2.2	.1	21.0	17.3	13.2			30.5	7440

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

# WEATHER CONDITIONS

170147 STATION RAMSTEIN AB GERMANY 74-83 YEARS APP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISIB	TOTAL NO OF OBS
APP	00-05		13.0		1.1		13.5	14.2	7.5			21.2	999
	06-10	.1	13.3		1.4		14.4	22.0	5.3			27.3	900
	11-15		13.7		2.2		15.2	32.3	3.0			40.5	900
	16-20	.1	15.0		2.5		15.5	20.9	15.5			37.7	900
	21-24	.1	14.5		1.7	.1	15.7	5.0	15.2			15.2	900
	25-31	.5	15.3		1.2		16.3	3.4	5.1			5.6	900
		.3	13.2		.5		13.7	3.1	4.5			7.7	900
		.1	12.9		.3		13.5	5.4	6.9			13.3	900
TOTALS		.2	14.0		1.5	.0	15.0	13.6	8.1			21.7	7199

NATIONAL CLIMATOLOGY BRANCH  
 WASHINGTON, D.C.  
 AIR WEATHER SERVICE/4440

# WEATHER CONDITIONS

175143 STATION 445121N AB GERMANY STATION NAME 74-83 YEARS MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAY	01-06		12.0		.1		12.0	15.5	0.0			15.5	930
	07-12	.3	12.0				12.0	27.5	4.0			27.4	930
	13-18	.1	14.7				14.7	37.0	0.2			45.2	930
	19-24	.1	15.3				15.3	12.3	12.4			24.5	930
	25-31	.3	17.1				17.1	1.5	4.7			5.0	930
	01-06	.5	15.3				15.3	.3	3.7			4.0	930
	07-12	1.5	13.2		.1		13.2	.3	3.5			4.3	930
	13-18	.9	15.1				15.1	3.7	3.5			7.0	930
TOTALS		.5	14.9		.1		14.9	12.3	5.7			19.0	7440

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

175147 RAMSTEIN AB GERMANY 74-83 JULY  
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	07-08	2.2	11.3				11.3	15.6	5.6			22.1	700
	09-10	2.3	9.7				9.7	32.3	6.1			35.4	700
	11-12	.7	3.7				3.7	37.7	9.4			47.1	900
	13-14	.4	9.3				9.3	13.9	13.2			27.1	900
	15-16	.7	11.1				11.1	1.3	7.5			4.9	900
	17-18	3.5	11.3				11.3	1.1	3.5			4.7	900
	19-20	3.4	12.1				12.1	1.3	3.5			5.3	900
	21-23	3.7	12.1			.1	12.1	5.9	4.2			11.1	900
TOTALS		2.1	13.3			.1	13.3	13.7	5.7			20.3	7700



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

175147 STATION      RAMSTEIN AB GERMANY STATION NAME      74-53 YEARS      III MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	00-23	1.5	7.7				5.7	14.3	4.0			15.5	930
	07-06	1.1	9.0				9.0	30.3	4.1			34.0	930
	08-05	1.2	9.9				9.9	40.4	7.7			48.0	930
	09-11	.5	11.9				11.9	13.5	12.5			25.5	930
	12-14	.9	12.3				12.3	1.4	6.5			3.0	930
	15-17	1.3	10.5				10.5	1.1	3.9			4.5	930
	18-20	2.5	9.5				9.5	1.4	2.4			3.6	930
	21-23	1.9	9.1				9.1	4.5	4.2			3.7	930
TOTALS		1.4	10.2				10.2	13.4	5.5			19.2	7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAD

# WEATHER CONDITIONS

170140 STATION RAMSTEIN AB GERMANY 74-53 YEARS 07 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
AUG	00-02	1.0	9.0				9.0	24.7	4.5			29.2	930
	03-05	.5	9.0				9.0	42.5	3.7			45.2	937
	06-08	.1	7.3				7.3	54.0	5.1			59.1	930
	09-11	.1	5.5				5.5	24.8	15.6			41.4	930
	12-14	.1	9.4				9.4	4.5	10.4			15.1	937
	15-17	.5	7.3				7.8	2.5	5.1			5.6	930
	18-20	1.4	9.0				9.0	2.0	5.4			7.4	930
	21-23	1.2	7.7				7.7	5.7	5.5			15.2	937
TOTALS		5.0	5.4				5.4	20.5	7.3			27.6	7440

FEDERAL CLIMATOLOGY BRANCH  
 WASHINGTON  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

170147 STATION RAMSIEY AB GERMANY 74-83 YEARS SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
SEP	01-31	0.1	2.4				2.4	32.0	3.0			37.5	900
	02-28	0.2	2.3				2.5	32.7	1.0			36.4	900
	03-31	0.2	13.0				13.2	57.3	2.3			62.8	900
	04-30	0.2	3.7				3.7	39.4	10.3			53.4	900
	05-31	0.3	3.5				3.8	3.8	13.2			20.3	900
	06-30	0.2	13.0				13.2	1.4	9.5			24.1	900
	07-31	0.4	2.2				2.2	3.0	11.1			16.7	900
	08-31	0.5	3.9				4.4	23.4	3.3			31.1	900
TOTALS		0.4	7.4				7.4	27.6	7.3			35.4	7200

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

# WEATHER CONDITIONS

175140 RAMSTEIN AB GERMANY 74-87 007  
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
007	00-70	.1	13.4				13.4	47.2	2.2			70.1	730
	07-70	.2	16.0		.1		16.0	52.4	1.2			73.5	830
	06-78		16.0		.1		16.1	51.3	1.3			73.1	730
	09-11		22.2				22.2	45.0	6.0			74.2	737
	12-14		19.9				19.9	23.4	11.4			74.7	930
	15-17		15.3				15.3	11.9	13.1			25.1	930
	18-20		15.7				15.7	15.5	10.4			25.6	730
	21-23	.1	13.4				13.4	31.2	7.1			73.7	930
TOTALS		.1	15.7		.1		15.3	35.2	6.3			42.0	7447

CENTRAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

# WEATHER CONDITIONS

12147 STATION RAMSIEIN AB GERMANY 74-83 YEARS 12 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
NOV	02-04		17.5	.3	1.7		22.7	33.2	4.4			33.7	200
	05-07	.1	21.2		2.3		22.5	33.5	4.1		.1	42.2	200
	08-10		21.2	.1	3.2		22.7	33.5	3.3			41.1	200
	11-13		23.5	.1	3.8		23.7	42.1	5.1			45.2	200
	14-16		19.1	.1	4.3		22.4	27.9	9.9			37.8	200
	17-19		15.2		2.5		15.1	17.7	11.7			23.2	200
	20-22		17.1	.1	1.7		18.5	23.5	5.5			22.3	200
	23-30		19.7	.1	2.3		21.3	31.2	5.9			35.2	200
TOTALS		.2	19.3	.1	2.5		21.3	31.5	5.7		.2	33.2	7200

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

178147 CAMSTEIN AB GERMANY 74-33 30 MONTH  
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	00-02		22.5	.7	3.5	.1	25.5	27.4	7.5			37.2	930
	03-05		23.5	1.0	4.3		27.5	27.8	5.5			35.8	930
	06-08		24.5	1.0	5.3		29.5	28.1	7.5			35.4	930
	09-11		23.2	.8	5.9		27.9	32.2	8.5			40.2	930
	12-14	.1	22.5	.8	8.5		33.0	27.3	11.3			33.5	930
	15-17		24.9	.3	5.9		21.0	20.3	10.5			20.0	930
	18-20		21.7	.5	5.5		25.5	25.7	10.0			25.7	930
	21-23	.1	20.9	.5	3.7		24.2	30.1	5.5			34.5	930
TOTALS		.2	23.0	.7	5.3	.0	28.2	26.0	8.9			25.7	7440

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/440

# WEATHER CONDITIONS

1951-52      WAMSIEN AB GERMANY      74-32      YEARS      31      MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	4.1	.0	17.3	1.1	5.4		27.0	23.6	11.3			23.0	7438
FEB		.3	14.0	.4	5.1		21.0	25.2	17.0			42.0	6758
MAR		.1	17.2		2.2	.1	21.0	17.3	13.2			32.0	7440
APR		.2	14.0		1.5	.0	13.2	13.0	3.1			21.7	7199
MAY		.5	14.3		.0		14.7	12.3	5.7			18.0	7440
JUN		2.1	15.6			.0	10.0	13.7	6.7			22.2	7200
JUL		1.4	15.2				10.2	13.4	5.3			18.2	7440
AUG		.5	8.4				3.4	20.5	7.3			27.3	7440
SEP		.4	9.4				7.4	27.5	7.3			35.4	7200
OCT		.1	15.7		.0		15.3	30.2	5.3			42.3	7440
NOV		.0	18.3	.1	2.3		21.3	31.5	6.7		.0	38.0	7200
DEC		.0	20.3	.7	5.3	.0	28.2	29.0	8.9			35.9	7440
TOTALS		.5	14.9	.2	2.4	.0	17.1	22.2	6.7	.0	.0	31.0	67645

## PART A

## ATMOSPHERIC PHENOMENA

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

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

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

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

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $\frac{5}{8}$  mile.



USAF CLIMATE DIVISION  
 AFMPC  
 WEATHER SERVICE/MAC

**WEATHER CONDITIONS**  
 ATMOSPHERIC PHENOMENA

10140 STATION RAMSTEIN AB GERMANY 52-53 YEARS 4-1 MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	241.7	.7	52.3	2.3	35.4	.5	70.3	55.3	57.4	.1		32.3	951
FEB		.7	43.7	7.5	33.1	1.0	54.5	55.7	75.1	.5		23.5	574
MAR		2.1	52.3	.4	16.4	1.3	51.1	59.3	70.3			23.7	445
APR		4.7	57.4		10.1	2.5	51.5	51.1	55.5		.1	72.1	954
MAY		11.7	53.5		.5	1.5	58.7	54.8	52.4		.2	20.3	492
JUN		15.3	53.2			.9	58.2	54.2	55.5			20.1	457
JUL		15.3	53.1			.7	53.1	53.5	54.7		.2	79.8	943
AUG		14.0	54.7			.3	54.7	71.3	57.5		.1	23.3	957
SEP		7.3	50.3			.1	50.3	73.5	72.5			27.1	553
OCT		1.3	53.1		.7	.3	53.1	32.1	72.3			21.1	494
NOV		.7	57.9	1.3	15.2	.5	54.3	73.4	55.3	.1		27.3	951
DEC		.3	55.3	5.7	31.3	.5	70.2	71.4	55.5	.1		32.4	972
TOTALS		5.7	54.5	1.3	12.3	.5	50.1	58.5	58.7	.1	.2	24.3	11544

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

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

- B**
- \* 1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
  - \* 2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

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

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

Continued on Reverse Side

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

- NOTES:**
- (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
  - (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
  - (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

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

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

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

105147 STATION RAMSIEIN AB GERMANY STATION NAME 52-33 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	29.0	21.4	5.6	14.3	9.6	11.7	5.3	2.0	.2					49.5	961	2.07	4.73	.25
FEB	35.2	17.5	6.1	12.2	8.8	11.5	6.5	1.8	.2					47.2	375	1.91	4.30	.04
MAR	33.7	19.2	4.3	11.5	7.9	10.9	5.7	1.4	.4					42.1	991	1.67	5.56	.27
APR	33.4	19.7	4.3	13.0	7.8	9.6	5.2	1.7	.3					41.9	960	1.77	5.34	.33
MAY	41.2	17.7	3.9	10.5	7.1	10.1	6.2	2.6	.6					41.0	992	2.28	6.77	.33
JUN	41.7	17.5	4.2	8.9	7.1	9.9	6.3	3.0	1.5					40.8	960	2.64	5.87	.37
JUL	47.9	14.0	2.8	9.7	4.1	11.3	6.1	3.5	.5					38.1	948	2.34	6.03	.68
AUG	45.0	15.0	3.5	9.2	5.9	10.2	7.4	2.9	.8					39.9	954	2.50	7.83	.07
SEP	43.9	13.5	4.0	9.6	5.1	10.0	5.3	2.1	.4					37.5	960	1.92	5.26	TRACE
OCT	45.7	13.0	5.1	11.5	6.5	9.7	4.6	2.6	.3					40.3	992	1.94	5.95	.27
NOV	35.5	18.5	5.9	12.4	7.5	10.7	7.4	1.9	.2					46.1	959	2.07	5.28	.41
DEC	29.6	21.9	6.1	11.9	7.6	12.6	7.0	2.5	.8					48.5	992	2.57	6.24	.23
ANNUAL	39.8	17.4	4.7	11.2	7.2	10.7	6.1	2.3	.5					42.7	11554	25.90		

GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

PRECIPITATION

FROM DAILY OBSERVATIONS

100143 STATION RAMSTEIN AB GERMANY STATION NAME

52-63

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			* 1.75	.74	.11	.72	.45	.78	.77	.78	1.43	1.15	
53	.31	.70	.11	.19	.77	1.60	.54	.23	.62	.14	.25	.19	1.60
54	.42	1.44	.25	.54	.60	1.41	.90	.92	.46	.45	.63	1.42	1.44
55	.71	.53	.31	.17	.64	.76	.56	.56	.40	.76	.13	.43	.78
56	.45	.21	.20	.50	.84	.95	.83	.92	.33	.53	.40	.27	.92
57	.13	.58	.48	.16	.24	1.56	.67	1.35	1.25	.81	.30	.74	1.56
58	1.18	.56	.52	.39	.71	.60	.75	1.21	.27	.73	.30	.46	1.21
59	.31	.33	.49	.29	.23	.97	.81	.89	TRACE	.45	.33	.49	.97
60	.44	.32	.17	.37	.64	.50	.54	1.21	.57	.37	.42	.52	1.21
61	.53	.27	.19	.67	.43	1.13	1.61	.45	.21	.59	.64	.55	1.61
62	1.36	.65	.77	1.70	.45	.22*	1.30	.21	1.20	.16	.42	.36	1.70
63	.33	.25	.52	.48	.20	1.08	.30	.31	.39	.57	.74	.14	1.08
64	.08	.30	.45	.24	.45	.53	.25	.44	.54	.37	.64	.25	.84
65	.87	.20	.59	.27	.53	.76*	.53	.45	.55	.29	.71	.93	.93
66	.46	.32	.39	.47	1.13	.75	.70	.58	.36	.64	.35	1.26	1.26
67	.22	.76	.45	.70	.77	.63	.90	.72	2.13	.49*	.42	1.26	2.13
68	.53	.40	.35	.72	.49	.69	.70	1.67	1.11	.48	.76	.53	1.67
69	.92	.58	1.07	.51	.55	.45*	.38*	.37	.29	.10	.53	.24	1.07
70	.64	.83	.51	.65	1.63	.71	1.15	.22	.24	.27	.39	.36	1.63
71	.31	.19	.23	.30	.79	.48	.33	.42	.39	.50	.47	.21	.79
72	.39	.47	.26	.37	.55	1.14	.87	.67	.35	.19	1.19	.37	1.19
73	.28	.34	.27	.64	.41	.29	.71	.41	.38	.55	.38	.43	.71
74	.19	.51	.35	.20	.49	.40	.71	.31	.35	.68	.50	.52	.71
75	.38	.49	.57	.36	.43	1.33	.88	.82	.53	.20	.31	.30	1.33
76	.25	.42	.23	.24	.14	.33	.70	.31	.71	1.08	.64	.69	1.08
77	.63	1.14	.37	.40	.31	1.01	1.25	.45	.50	.60	.83	.58	1.25
78	.56	.50	.75	.25	1.46	1.54	.41	.64	.42	.23	.23	1.71	1.71
79	.34	.64	.53	.34	.65	.53	.58	1.21	.77	.47	.58	1.26	1.26
80	.85	.72	.44	.53	.64	1.40	1.40	1.53	.25	.67	.60	.23	1.53
81	.74	.20	.57	1.22	.34	1.06	.67	.58	.80	1.56	.54	.89	1.56
MEAN													
S D													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)



2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
 XXXXXXXXXXXXXXXXXXXXXXXX  
 MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

108143 STATION RAMSTEIN AB GERMANY STATION NAME

52-83

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			* 5.55	2.50	.33	1.33	1.59	2.39	3.54	3.65	5.23	4.86	
53	.80	2.06	.20	1.09	1.22	5.38	2.42	.90	1.64	.49	.46	.73	17.09
54	1.91	2.27	1.03	1.96	1.92	2.65	2.72	4.93	3.22	1.45	1.68	2.9	28.96
55	2.80	2.39	1.35	.33	3.00	3.00	2.33	1.51	1.92	1.66	.65	3.32	25.33
56	2.10	.48	.54	2.97	1.82	1.58	1.86	2.92	2.03	2.75	1.09	1.00	22.44
57	.71	2.89	2.17	.38	.33	4.28	2.36	3.35	5.23	1.17	.70	1.03	25.60
58	4.03	4.20	1.95	1.07	4.63	2.79	2.00	4.98	1.44	1.45	1.26	3.65	33.81
59	1.69	.04	1.63	1.63	.98	2.55	1.84	2.32	TRACE	1.11	1.35	2.80	18.05
60	1.99	2.14	.75	1.02	4.17	1.97	2.51	4.45	1.13	2.64	2.43	2.70	27.95
61	2.97	1.27	.59	1.84	2.21	3.51	3.44	1.55	.71	2.19	1.71	2.58	24.67
62	3.49	1.92	2.89	3.08	1.62	.37*	1.52	.72	3.06	.45	1.34	2.09	*22.55
63	1.16	.81	2.71	1.63	.93	2.65	.70	4.36	1.34	1.27	3.99	.23	21.78
64	.25	1.10	2.26	.91	1.49	1.47	.68	2.24	1.17	1.81	1.56	1.13	16.07
65	4.00	.60	1.91	1.53	1.84	2.81*	2.80	1.61	2.83	.24	4.76	5.09	*30.02
66	1.42	1.52	1.59	2.49	1.97	3.34	3.69	3.43	.67	2.48	1.94	4.19	29.13
67	.93	2.09	2.06	1.82	3.54	2.06	2.03	2.59	5.25	2.83*	2.34	2.54	*32.09
68	2.76	2.38	1.55	2.38	2.19	1.80	2.94	7.83	3.94	1.41	1.49	1.98	32.75
69	3.35	2.71	2.70	2.97	3.09	2.08*	.88*	.27	.35	.20	2.92	.90	*22.22
70	1.96	4.48	1.72	2.79	3.45	2.33	3.44	.95	1.07	1.20	1.25	1.60	26.25
71	1.57	.85	.80	.78	2.99	2.51	.69	1.61	1.05	.83	2.01	.50	16.19
72	1.20	.98	1.04	2.02	2.85	2.78	2.17	3.46	1.22	.43	4.27	.71	23.18
73	.84	1.95	.23	1.78	1.91	1.25	2.97	1.20	1.02	2.51	1.21	1.46	18.23
74	1.22	1.82	1.56	.58	1.72	1.83	2.15	1.76	1.76	4.60	2.87	3.07	25.04
75	1.73	.75	2.46	1.24	1.37	4.73	1.82	2.50	2.76	.90	1.54	.43	22.25
76	2.37	1.44	.91	.74	.44	.41	1.51	.85	2.79	2.58	2.35	2.58	18.98
77	3.62	4.80	1.20	1.33	1.17	3.10	1.88	1.97	.74	2.09	3.98	3.17	29.05
78	1.91	1.88	3.15	.95	5.77	3.50	2.32	1.55	1.40	.53	.41	6.24	30.63
79	1.56	2.50	3.91	2.41	2.26	2.50	1.76	3.87	1.46	1.92	2.93	5.43	32.61
80	2.24	2.57	2.00	1.92	1.53	5.87	6.03	3.59	1.13	2.86	1.98	1.74	33.46
81	2.45	.71	3.14	2.38	1.20	3.42	2.43	1.64	2.01	4.70	1.40	4.26	29.74
MEAN													
S D													
TOTAL OBS.													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)





GENERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 (FROM DAILY OBSERVATIONS)

100142 STATION RAMSTEIN AB GERMANY STATION NAME 52-03 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	53.3	20.1	7.6	5.7	1.6	1.0	.1	.4	.2					15.6	951	5.2	15.7	TRACE
FEB	56.2	17.5	7.7	5.6	1.8	.9	.2	.1						15.3	875	4.0	13.2	TRACE
MAR	51.4	11.7	3.0	2.2	.6	.4	.1	.4	.1					5.9	991	2.0	13.8	.
APR	99.7	3.1	1.5	.9			.1	.1						2.6	950	.6	6.0	.
MAY	99.2	.3													992	TRACE	TRACE	.0
JUN	100.0														950	.0	.0	.0
JUL	100.0														957	.0	.0	.0
AUG	100.0														965	.0	.0	.0
SEP	100.0														950	.0	.0	.0
OCT	99.4	.6													992	TRACE	TRACE	.0
NOV	33.6	10.3	2.5	2.4	.8		.2	.1						6.0	950	1.6	8.8	.0
DEC	57.5	20.4	5.7	3.6	1.7	.5	.3	.1	.1					12.1	992	3.5	21.8	.0
ANNUAL	37.5	7.5	2.3	1.7	.5	.2	.1	.1	.0					5.0	11565	17.4		

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SNOWFALL

FROM DAILY OBSERVATIONS

100147 HAMSTEIN AB GERMANY  
STATION

52-53

YEARS

24 HOUR AMOUNTS IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			* 2.0	5.0	.0	.0	.0	.0	.0	.0	1.5	1.0	2.5
53	1.1	2.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6
54	1.0	1.2	.3	.5	.0	.0	.0	.0	.0	.0	TRACE	.1	3.0
55	2.1	1.9	2.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.0	2.2
56	1.8	2.2	.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	1.1	.5
57	.5	TRACE	.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	5.3
58	4.9	5.1	5.3	.6	.0	.0	.0	.0	.0	.0	TRACE	3.0	3.1
59	3.1	TRACE	.0	.1	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.0
60	2.8	.3	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.0	6.3
61	5.3	.8	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	.5	5.7
62	.1	2.4	5.7	TRACE	.0	.0*	.0	.0	.0	TRACE	5.4	.6	3.4
63	2.7	3.4	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.4	4.4
64	1.2	.9	4.4	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.9	5.1
65	1.8	1.2	5.1	.0	.0	.0	.0	.0	.0	.0	4.0	.5	1.4
66	.4	TRACE	1.0	TRACE	.0	.0	.0	.0	.0	TRACE	1.4	1.2	3.2
67	.7	.5	TRACE	.2	.0	.0	.0	.0	.0	.0	1.1	3.0	5.8
68	5.8	4.0	.3	.8	.0	.0	.0	.0	.0	.0	.9	2.2	2.4
69	1.3	2.0	.3	1.3	.0	.0*	.0*	.0	.0	.0	.8	2.4	7.2
70	7.2	2.0	4.7	.5	.0	.0	.0	.0	.0	.0	TRACE	5.7	2.6
71	.5	.2	2.5	.0	.0	.0	.0	.0	.0	.0	2.0	TRACE	1.6
72	1.3	.5	.3	.0	.0	.0	.0	.0	.0	TRACE	1.5	.0	3.8
73	.3	3.8	.7	.4	.0	.0	.0	.0	.0	TRACE	2.0	.7	.6
74	TRACE	.6	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.1	7.6
75	TRACE	TRACE	7.6	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	TRACE	3.5
76	3.5	2.5	TRACE	.2	.0	.0	.0	.0	.0	.0	2.1	1.6	5.9
77	5.9	TRACE	1.2	TRACE	.0	.0	.0	.0	.0	.0	.5	1.0	2.8
78	1.1	2.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.8	2.8
79	2.8	.8	.0	TRACE	TRACE	.0	.0	.0	.0	.0	1.0	1.0	4.2
80	1.7	TRACE	.2	.4	.0	.0	.0	.0	.0	.0	4.2	2.9	5.0
81	1.5	1.8	TRACE	3.5	TRACE	.0	.0	.0	.0	.0	TRACE	5.0	
MEAN													
S.D.													
TOTAL OBS.													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)



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FEDERAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
 XXXXXXXXXXXXXXXXXXXXXXX  
 MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

125142 STATION 52-93  
 RANSTEIN AB GERMANY STATION NAME

52-93

YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			* 3.5	5.0	.0	.0	.0	.0	.0	.0	3.3	3.3	
53	1.3	8.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.0
54	7.0	2.5	.3	.8	.0	.0	.0	.0	.0	.0	TRACE	.1	10.7
55	5.3	8.4	5.3	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.2	23.2
56	2.8	3.7	.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.0	9.7
57	1.0	TRACE	.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	1.0
58	7.3	11.6	13.8	1.7	.0	.0	.0	.0	.0	.0	TRACE	3.5	39.1
59	9.7	TRACE	.0	.1	.0	.0	.0	.0	.0	.0	TRACE	TRACE	9.8
60	3.2	.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	5.4	9.3
61	8.7	1.3	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	.9	11.9
62	.1	4.5	9.5	TRACE	.0	.0*	.0	.0	.0	TRACE	5.5	1.5	* 24.1
63	5.9	8.7	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.9	19.5
64	1.4	2.0	6.7	TRACE	.0	.0	.0	.0	.0	.0	TRACE	7.9	19.0
65	5.5	4.3	8.4	.0	.0	.0	.0	.0	.0	.0	.0	1.6	28.6
66	.9	TRACE	1.7	TRACE	.0	.0	.0	.0	.0	TRACE	3.1	3.1	9.8
67	1.9	1.0	TRACE	.3	.0	.0	.0	.0	.0	.0	1.3	4.2	9.7
68	15.7	7.5	.4	1.6	.0	.0	.0	.0	.0	.0	2.3	4.9	32.4
69	2.8	13.2	.8	1.3	.0	.0*	.0*	.0	.0	.0	2.4	7.6	* 28.7
70	10.7	7.7	10.2	1.1	.0	.0	.0	.0	.0	.0	TRACE	9.0	39.7
71	.8	.4	5.2	.0	.0	.0	.0	.0	.0	.0	5.5	TRACE	12.9
72	3.5	.7	.3	.0	.0	.0	.0	.0	.0	TRACE	2.4	.0	6.9
73	.3	8.8	1.4	.5	.0	.0	.0	.0	.0	TRACE	3.2	1.6	15.9
74	TRACE	.6	.2	TRACE	.0	.0	.0	.0	.0	.0	.0	.1	.9
75	TRACE	TRACE	8.6	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	TRACE	8.6
76	7.5	4.3	TRACE	.2	.0	.0	.0	.0	.0	.0	2.3	5.7	21.2
77	14.2	TRACE	1.2	TRACE	.0	.0	.0	.0	.0	.0	.5	1.0	16.9
78	2.8	9.1	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	4.9	16.9
79	13.9	1.6	.0	TRACE	TRACE	.0	.0	.0	.0	.0	1.2	1.4	19.1
80	2.3	TRACE	.2	.5	.0	.0	.0	.0	.0	.0	5.6	9.5	19.1
81	7.2	3.5	TRACE	4.5	TRACE	.0	.0	.0	.0	.0	TRACE	21.5	37.1
MEAN													
S D													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

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GLOBAL CLIMATOLOGY BRANCH  
 JJAFTAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
 XXXXXXXXXXXXXXXXXXXXXXX  
 MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

1951-1960 RAMSTEIN AB GERMANY

52-83

YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
51	14.5	2.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	1.6	19.1
52	.7	6.3	.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	7.2
MEAN	5.16	3.28	2.45	.60	TRACE	.00	.00	.00	.00	TRACE	1.64	3.48	16.46
S D	4.722	3.910	3.219	1.344	.000	.000	.000	.000	.000	.000	2.506	4.386	10.263
TOTAL OBS	261	875	391	260	892	960	957	965	960	992	960	992	11565

NOTE \* (BASED ON LESS THAN FULL MONTHS)

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 SNOW DEPTH  
 (FROM DAILY OBSERVATIONS)

100140 STATION NAME AMSTEIN AB GERMANY STATION NAME 52-43 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 100	101 250	251 500	501 1000	1001 2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01 04	05 14	15 24	25 34	35 44	45 64	65 104	105 154	155 254	255 504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120					
JAN	52.5	13.3	6.9	4.7	4.5	7.5	.4							24.2	93			
FEB	77.3	11.1	7.7	5.1	3.9	2.5	.1							18.6	874			
MAR	97.5	4.5	2.1	1.5	.5	.5	.1							5.5	959			
APR	99.7	.4	.1	.1		.1								.3	960			
MAY	100.0														990			
JUN	100.0														960			
JUL	100.0														972			
AUG	100.0														965			
SEP	100.0														960			
OCT	100.0														992			
NOV	94.1	4.2	.6	.7	.1	.3								1.5	960			
DEC	77.2	13.5	5.9	1.6	.4	1.7	.7							10.3	991			
ANNUAL	91.3	3.7	1.9	1.1	.3	1.1	.1							5.0	11515			

GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SNOW DEPTH

FROM DAILY OBSERVATIONS

175142 RAMSTEIN AB GERMANY  
STATION STATION NAME

52-83

YEARS

DAILY SNOW DEPTH IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			* 1	5	0	0	0	0	0	0	2	1	
53	1	2	TRACE	0	0	0	0	0	0	0	0	TRACE	2
54	5	2	TRACE	0	0	0	0	0	0	0	0	TRACE	4
55	1	5	3	0	0	0	0	0	0	0	TRACE	1	5
56	1	4	TRACE	0	0	0	0	0	0	0	0	1	4
57	3	0	0	0	0	0	0	0	0	0	0	TRACE	3
58	4	8	5	TRACE	0	0	0	0	0	0	0	0	8
59	4	0	0	0	0	0	0	0	0	0	TRACE	TRACE	4
60	3	1	0	0	0	0	0	0	0	0	0	0	3
61	6	TRACE	0	0	0	0	0	0	0	0	TRACE	1	6
62	0	3	5	0	0	0	0	0	0	0	4	TRACE	5
63	4	5	2	0	0	0	0	0	0	0	0	0	5
64	0	0	0	0	0	0	0	0	0	0	0	4	4
65	1	1	0	0	0	0	0	0	0	0	0	0	0
66	0	0*	0	0	0	0	0	0	0	0	0	0	0
67		0	0	0	0	0	0	0	0	0	0*	2	
68	6*	6	0	0	0	0	0	0	0	0	2	5	* 6
69	3	4	TRACE	TRACE	0	0*	0*	0	0	0	TRACE	2	4
70	6	2	5	0	0	0	0	0	0	0	0	0	8
71	4	TRACE	1	0	0	0	0	0	0	0	2	TRACE	4
72	1	TRACE	0	0	0	0	0	0	0	0	1	0	1
73	TRACE	3	1	1	1	0	0	0	0	0	2	1	3
74	0	0	TRACE	0	0	0	0	0	0	0	0	TRACE	TRACE
75	0	1	7	0	1	0	0	0	0	0	1	0	7
76	6	3	TRACE	0	0	0	0	0	0	0	TRACE	1	6
77	2	1	1	1	1	1	1	1	1	1	TRACE	0	2
78	1	6	0	0	0	0	0	0	0	0	0	2	6
79	6	1	0	0	1	1	1	1	1	1	TRACE	0	6
80	2	0	0	0	0	0	0	0	0	0	4	6	6
81	4	2	1	2	0	1	0	0	0	0	TRACE	9	9
MEAN													
S D													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)





U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

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

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

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

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

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

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SURFACE WIND

FROM DAILY OBSERVATIONS

106147 RAMSTEIN AB GERMANY  
STATION STATION NAME

61-63

YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS		
51						SSW	39W	35SW	32WSW	34SSW	35SW	33SW	51		
52	SW	42WSW	43SSW	32SW	38SW	26W	26SW	28W	44W	36E	24SW	20W	36	SW	48
53	ESE	20E	20W	35SW	34W	*24W	*34WSW*	*24SSW	33W	25SW	24W	38NE	39	W	39
54	WSW	20SW	28ENE	24W	35SW	30WSW	40WSW	33WSW	42W	33SW	39SW	50SW	38	SW	50
55	S	46N	36SW	34W	31WSW	35SW	46W	*44	SSW	29WSW	27WSW	49W	53		
56	SW	36W	36WSW	45WSW	40W	40WSW	33WSW	36SW	27WSW	28SW	34SSW	41WSW	40	WSW	45
57	NNW*	15SW	54WSW	39W	37SW	47SW	20W	19WSW	41WSW	25WSW	39SW	32W	38	SW	54
58	SW	42SW	27SW	40SW	29WSW	36W	2623/	3527/	3224/	2526/	25.8/	2625/	26	SW	42
59	22/	2627/	3224/	2727/	4325/	2824/	2323*	3725*	2127/	2725/	3025/	4924/	25	25/	49
70	23/	2622/	5325/	4024/	37.8/	28.9/	2933/	3824/	2722/	3527/	3425/	3323/	34	22/	53
71	23/	5324/	3121/	2625/	3200/	3026/	3525/	3223/	4915/	2422/	3024/	3724/	31	29/	53
72	5/	3322/	3127/	5026/	5423/	4727/	30.9/	3023/	3023/	35.9/	2424/	5324/	36	25/	54
73	24/	2623/	45.4/	2820/	4924/	3926/	3227/	3826/	3027/	4225/	3830/	3826/	36	27/	49
74	27/	4525/	4327/	39.3*	2425/	3028/	3228/	3025/	2930/	4022/	3428/	4325/	41	27/	45
75	27/	3310*	2425/	3323/	30.5/	36.9/	3116/	3221/	3021/	3627/	3024/	4012/	36	24/	40
76	25/	4622/	2825/	29.7/	2724/	3125/	2926/	29.8/	3823/	2928/	2126/	5023/	38	26/	50
77	24/	4123/	3725/	3423/	4623/	3527/	3125/	2725/	2025*	1923*	2223/	5129/	38	29/	51
78	24/	4222/	3227/	42.9/	3125/	2524/	3124/	3228/	2525/	3326/	2224/	2226/	50	26/	50
79	25/	3323/	3423/	4425/	3526/	4.24/	2531/	4026/	2823/	2810/	2223/	4225/	54	25/	54
80	21/	4223/	4522/	3423/	46.5/	2824/	2822/	3026/	3121/	2925/	3921/	3518/	39	23/	45
81	24/	3525/	2625/	32.5/	2524/	2030/	3224/	4323/	2822/	2625/	4026/	2625/	42	24/	43
82	23/	3724/	2024/	4627/	2811/	3027/	3127/	2323/	2020/	2327/	3228/	2922/	35	24/	46
83	35/	4324/	5230/	3324/	3623/	2625/	2627/	2625/	2727/	3924/	3225/	4528/	32	24/	52
MEAN	37.3	35.9	36.1	36.3	32.7	30.7	31.8	30.9	31.1	30.2	33.4	37.7	42.1		
S D	3.731	3.791	5.252	7.596	7.053	5.793	5.800	6.943	5.450	6.693	9.685	8.588	4.047		
TOTAL OBS	655	613	581	556	676	684	678	648	678	723	688	712	8022		

NOTES \* (BASED ON LESS THAN FULL MONTHS)

S (BASED ON LESS THAN FULL MONTHS AND 100 KNOTS)

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 170147 RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS MONTH JAN  
 CLASS ALL WEATHER HOURS (L & T) 0000-0200  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.3	.2									.9	4.4
NNE	.3											.3	2.0
NE	1.4	1.7	.9									3.1	4.3
ENE	1.6	1.9	1.1	.1								4.6	4.9
E	.8	1.7	.6									2.4	5.0
ESE	.7	.1										.3	3.3
SE													
SSE	.1											.1	2.0
S	.3	.1										.4	3.0
SSW	.3	.3	.5	.1								1.3	6.3
SW	.9	2.7	1.9	2.2		.2						7.2	6.7
WSW	1.8	5.1	7.7	7.1	1.3	.3						23.7	9.5
W	1.8	4.4	4.3	4.6	.5							15.7	8.5
WNW	1.7	.5	.1	.1								1.7	3.9
NW	.2											.2	1.5
NNW													
VARBL			2.7	1.1	.2	.2						3.6	11.4
CALM												34.4	
	11.1	17.8	19.6	15.3	2.7	.8						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 928

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/940

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      JAY MONTH

ALL WEATHER CLASS      0300-0500 HOURS (LST)

CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5										1.2	3.4
NNE	.4											.4	1.8
NE	1.3	.8	.3	.1								2.5	3.9
SNE	1.8	2.4	1.1	.1								5.4	4.8
E	1.5	1.1	.3									2.9	3.8
ESE		.2										.2	5.0
SE	.1	.1										.2	3.5
SSE		.1			.1							.2	12.0
S	.1	.1	.4									.5	7.0
SSW	.1	.4	.4									1.0	5.1
SW	1.0	2.2	2.3	1.6	.2							7.2	8.2
WSW	1.9	5.4	8.2	4.9	1.7	.5	.2					23.0	9.6
W	2.9	4.0	5.2	3.4	.4							15.9	8.0
WNW	.1	.4	.3	.2								1.1	7.0
NW	.3	.1										.4	3.0
NNW													
VARBL			2.3	1.6	.1	.1	.1					4.2	11.3
CALM												33.5	
	12.3	17.7	20.8	12.0	2.6	.8	.3					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0600-1800  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1											.1	2.0
NNE	.1	.2										.3	3.7
NE	1.0	.4	.4									1.8	3.9
ENE	2.4	2.5	1.3	.1								6.2	4.8
E	1.3	1.2	.1	.2								3.3	4.0
ESE	.7											.2	2.0
SE													
SSE		.1	.2									.3	7.3
S	.1											.1	1.0
SSW	.1	.5	.5	.1								1.3	6.6
SW	1.3	2.0	3.0	2.0	.2							9.4	8.5
WSW	1.5	4.5	8.0	5.4	1.3	.3						21.0	9.4
W	2.5	3.5	5.5	1.8	.1	.2						13.7	7.6
WNW	1.1	.1	.5									1.7	4.4
NW	.2		.2									.4	5.0
NNW	.2	.1	.2									.5	5.2
VARBL		.1	3.0	2.4	.2	.1						5.8	10.8
CALM												33.8	
	12.6	15.4	23.8	12.0	1.8	.5						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION RAMSTEIN AB GERMANY STATION NAME 78-83 YEARS JAN MONTH  
 ALL WEATHER CLASS 000-1100 HOURS (LST) MONTH

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.1	.1									.5	3.8
NNE	.7	.1										.4	2.3
NE	.0	.8	.4									2.0	4.4
ENE	1.5	2.9	1.3	.1								5.9	5.4
E	1.7	1.1	.7	.4								3.5	4.7
ESE	.9	.1										1.0	2.1
SE	.7											.2	2.0
SSE		.1	.7									.3	8.0
S	.1	.3	.7	.1								.8	7.1
SSW	.5	.5	.8	.4								2.4	6.6
SW	1.0	2.0	1.8	2.2	.3							7.3	9.5
WSW	1.3	3.7	10.7	7.5	.8	.2						23.4	9.6
W	2.0	3.8	5.1	2.7	.1	.1						14.8	7.9
WNW	1.0	.8										1.7	3.4
NW													
NNW	.1											.1	2.0
VARBL		.1	2.3	2.0	.1							4.5	10.4
CALM												31.0	
	12.0	15.3	23.5	15.5	1.3	.3						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

**SURFACE WINDS**

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

105140 RAMSTEIN AB GERMANY  
STATION STATION NAME

74-93  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1700-1470  
HOURLY PERCENT

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.8										1.0	3.7
NNE	.9	.5										1.4	3.3
NE	1.5	1.4	.7	.1								3.7	4.0
ENE	2.5	2.4	1.7	.5								7.2	5.5
E	1.5	.5	.5	.5								3.5	6.1
ESE	.4	.3										.8	3.3
SE	.1	.1										.2	3.0
SSE	.4	.1	.1									.6	3.2
S	.1	.5	.3	.3								1.3	8.1
SSW	1.0	.4	.5	.3								2.4	5.7
SW	.5	2.0	3.2	2.4	.1	.2						8.6	9.3
WSW	1.0	3.8	9.4	8.1	1.3	.1						24.0	10.0
W	2.7	2.7	5.9	5.4	.8	.1						17.5	9.0
WNW	.3	.5	.4	.1								1.6	5.3
NW	.7				.1							.4	7.0
NNW		.2										.2	5.0
VARBL		.2	4.5	1.5	.4							6.8	10.0
CALM												18.5	
	14.5	15.7	27.6	19.4	2.7	.4						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAAC

# SURFACE WINDS

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

13340 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS JAN MONTH  
ALL WEATHER CLASS 1500-1700 HOURS (LST)  
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	1.3	.2									2.9	3.6
NNE	1.1	.9	.3									2.2	3.6
NE	3.7	1.3	.2									4.5	3.1
ENE	1.4	2.6	2.5	.4								7.0	6.1
E	1.0	1.2	.5	1.1								3.8	7.0
ESE		.1										.1	5.0
SE	.1	.1										.2	4.5
SSE	.2		.1									.3	5.0
S	.9	.4	.4	.1								1.7	5.5
SSW	1.2	1.4	.9	.3	.1							3.6	5.7
SW	.3	2.5	3.6	3.0	.3	.1						9.8	9.5
WSW	1.1	3.3	9.4	8.4	1.2	.2						23.6	10.0
W	2.7	4.1	4.7	4.5	.9	.3						16.6	9.1
WNW	1.2	1.4	.5	.1								3.2	4.8
NW	.3	.5	.1									1.0	4.2
NNW	.4	.4	.1									1.0	3.6
VARBL			3.9	1.1	.3							5.2	10.2
CALM												13.2	
	15.5	21.4	27.3	19.1	2.9	.5						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 929



2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175143 RAMSTEIN AB GERMANY

70-83

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1980-2000

CLASS

HOURS (LST)

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	.5										1.4	3.2
NNE	.4	.5	.1									1.5	3.5
NE	1.7	1.3										2.3	3.7
ENE	2.0	2.3	1.7	.5								7.4	5.6
E	1.7	1.9	.8	.2								4.5	4.7
ESE	.7	.2										.4	3.3
SE													
SSE		.1		.1								.2	10.5
S	.3	.5		.1								1.3	5.1
SSW	1.0	.9	.5	.4								2.5	6.1
SW	1.0	2.3	2.8	3.0	.5							9.6	8.9
WSW	2.3	4.1	7.0	5.8	.6	.2						21.0	9.0
W	2.4	4.3	4.4	3.4	1.0	.1						15.3	8.4
WNW	.5	.2	.7	.2								1.3	5.3
NW	.7	.1										.3	2.7
NNW	.2	.1										.3	3.3
VARBL		.1	3.0	1.7	.2	.1						5.2	10.5
CALM												25.5	
	14.9	20.0	20.9	16.6	2.4	.4						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

930

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/44C

# SURFACE WINDS

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

15140 RAMSTEIN AB GERMANY 74-53  
STATION STATION NAME YEARS  
 ALL WEATHER CLASS JAN MONTH  
 2100-2300 HOURS (LST)  
 CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.2										1.0	2.8
NNE	.4	.3	.1									.9	3.6
NE	.4	.9	.2									1.5	4.9
ENE	1.7	2.3	1.4	.2								6.6	5.3
E	1.7	1.3	.4									3.0	4.1
ESE													
SE	.5											.2	1.5
SSE	.2	.1	.1									.4	4.0
S	.6	.1	.1	.1								1.0	3.9
SSW	.2	1.0	.5	.3	.1	.1						2.4	8.0
SW	.5	2.3	2.5	1.3	.3	.2						7.2	8.8
WSW	1.5	3.5	5.5	8.6	1.4	.4						21.1	10.4
W	2.3	4.1	5.5	4.1	.5							16.6	8.3
WNW	.2		.1	.1								.5	5.8
NW	.3	.2	.1									.6	3.8
NNW													
VARBL		.2	2.5	.9	.3							4.0	10.4
CALM												33.1	
	11.7	17.7	19.7	15.6	2.7	.3						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

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

125143 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      JAN MONTH

ALL WEATHER CLASS

ALL MONTHS (L & Y)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.5	.1									1.2	3.5
NNE	.5	.3	.1									.9	3.3
NE	1.3	1.0	.3	.0								2.6	3.9
ENE	1.9	2.5	1.5	.3								5.3	5.3
E	1.4	1.2	.5	.3								3.4	5.0
ESE	.2	.1										.4	3.0
SE	.1	.0										.1	2.9
SSE	.1	.1	.1	.0	.0							.3	6.0
S	.3	.3	.2	.1								.9	5.8
SSW	.5	.7	.5	.3	.0	.0						2.2	6.4
SW	.8	2.2	2.7	2.2	.3	.1						3.3	8.8
WSW	1.5	4.3	3.1	7.1	1.2	.3	.0					22.6	9.7
W	2.3	3.8	5.2	3.8	.5	.1						15.8	8.4
WNW	.8	.5	.3	.1								1.6	4.8
NW	.2	.1	.1		.0							.4	4.1
NNW	.1	.1	.7									.3	4.0
VARBL		.1	2.9	1.5	.2	.1	.0					4.9	10.6
CALM												27.9	
	12.9	17.8	22.9	15.7	2.3	.6	.0					100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 7437

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 1051ND STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH FEB  
 CLASS ALL WEATHER HOURS (LST) 0000-0200  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5											.5	2.5
NNE	.1	.2										.4	3.3
NE	2.0	3.1	.1									5.2	3.6
ENE	4.1	5.8	2.6	.5								13.0	5.0
E	1.7	2.5	1.1	.4								5.6	5.0
ESE	.5											.5	1.3
SE	.1											.1	2.0
SSE	.1											.1	3.0
S	.2		.1									.4	4.7
SSW	.2	.8	.2	.1		.2						1.7	8.6
SW	.4	1.1	1.4	1.2	.2							4.3	9.1
WSW	1.1	1.7	4.7	2.0	.7							10.2	9.3
W	.9	2.6	1.7	.5								5.7	6.3
WNW	.4	.2										.6	3.6
NW	.2											.2	2.0
NNW	.4											.4	2.0
VARBL			.7	.6	.5							1.8	12.5
CALM												49.6	
	12.9	18.0	12.6	5.2	1.4	.2						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 846

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      FEB MONTH

ALL WEATHER CLASS      0000-0500 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	1.8
NNE	.5	.2										.8	2.7
NE	2.1	3.2	.4									5.7	4.1
ENE	2.8	5.6	2.5	.2								11.2	5.1
E	2.6	1.9	.8	.2								5.6	4.3
ESE	.4											.4	2.0
SE	.5											.5	1.8
SSE		.1										.1	6.0
S	.2											.2	2.0
SSW	.4	.6	.2	.1								1.3	6.0
SW	.1	.5	2.0	1.5	.2	.1						4.5	10.3
WSW	.7	1.8	5.2	3.0	.4							11.0	9.0
W	1.4	2.0	2.7	.4								6.5	6.3
WNW	.2											.2	1.5
NW													
NNW	.2	.1										.4	3.0
VARBL		.1	1.3	1.1	.2	.1						2.8	11.6
CALM												48.1	
	13.0	16.1	15.2	6.5	.8	.2						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS      846

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140      RAMSTEIN A3 GERMANY      74-83      FEB

STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      0600-0800

CLASS      HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.2										.9	2.5
NNE	.5	.5										1.1	3.3
NE	3.4	2.2	.7									6.4	3.7
ENE	2.4	5.6	3.3	.6								11.8	5.7
E	2.0	1.1	.8	.4								4.3	4.8
ESE	1.2	.4										1.5	2.4
SE	.4	.1										.5	2.5
SSE	.1	.1										.2	3.5
S	.1	.1										.2	3.5
SSW	.1	.7	.5	.1								1.4	6.8
SW	.2	1.8	.7	1.1	.2							4.0	8.6
WSW	.9	2.6	4.5	3.9	.6							12.5	9.4
W	1.1	2.6	1.1	.6	.1							5.4	6.2
WNW	.5	.2										.7	3.0
NW	.2											.2	3.0
NNW													
VARBL		.2	1.5	.7	.6							3.1	11.2
CALM												45.6	
	13.9	18.4	13.1	7.3	1.5							100.0	3.6

TOTAL NUMBER OF OBSERVATIONS      846

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

175140  
STATIONRAMSTEIN AB GERMANY  
STATION NAME74-83  
YEARSFEB  
MONTHALL WEATHER  
CLASS0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4										.7	3.5
NNE	1.9	.5										2.4	2.6
NE	2.2	3.5	.4									6.1	4.1
ENE	2.7	6.7	4.5									13.9	5.6
E	2.7	2.0	1.2	1.1								7.0	5.2
ESE	.5	.2	.1									.9	3.1
SE		.1										.1	4.0
SSE	.5	.1										.5	3.0
S		.2	.4									.6	6.8
SSW	.6	.7	.7	.4								2.4	6.6
SW	.5	1.9	1.5	1.1	.4	.4						5.7	9.3
WSW	.9	1.9	3.8	3.7	.7							11.0	9.5
W	.9	2.4	2.4	.9								6.5	7.1
WNW	.7	.6										1.3	3.2
NW		.2										.2	4.5
NNW													
VARBL			3.0	.9	.1							4.0	9.3
CALM												36.4	
	14.7	21.5	17.9	6.0	1.2	.4						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

846

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS FEB MONTH  
 CLASS ALL WEATHER HOURS (LST) 1200-1400  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	.7										1.5	3.4
NNE	2.2	3.2	.1									5.6	3.9
NE	3.1	5.3	1.2									9.6	4.5
ENE	2.7	4.6	5.8	.9								14.1	6.5
E	1.9	1.5	2.5	1.4								7.3	7.0
ESE	.7	.6	.1									1.4	3.6
SE	.1											.1	3.0
SSE	.5	.2										.7	3.2
S	.5	.5	.2									1.2	4.9
SSW	.4	.7	1.3	.2								2.6	7.2
SW	.6	1.2	2.8	1.2	.7	.2	.1					6.9	10.0
WSW	1.3	2.1	4.9	2.8	.8		.1					12.1	9.4
W	1.9	2.4	3.9	2.0								10.0	7.5
WNW	.9	1.1	.1	.1								2.2	4.1
NW	.5	.1										.6	2.4
NNW	.1	.4										.5	3.5
VARBL	.1		5.3	1.7	.1							8.2	9.5
CALM												15.5	
	19.3	24.6	29.1	10.4	1.7	.2	.2					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 846



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/440

**SURFACE WINDS**

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

175140 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS FEB MONTH 1500-1700 HOURS (L & T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	%	MEAN WIND SPEED
N	1.7	1.2	.2									3.1	3.5
NNE	2.0	4.3	.7									6.7	4.4
NE	3.7	5.9	2.4									12.9	4.8
ENE	1.8	4.7	4.1	.7	.1							11.5	6.4
E	.7	1.4	1.9	1.5								5.6	8.1
ESE	.4	.4										.7	3.7
SE	.2	.1										.4	3.3
SSE	.4	.1	.4									.8	4.4
S	.9	1.2	.1									2.2	4.3
SSW	.9	1.9	.7	.1								3.7	5.0
SW	1.1	2.1	2.7	1.8	.5							8.2	8.8
WSW	1.7	3.7	4.5	3.4	.7							13.9	8.5
W	1.7	3.3	3.3	1.9	.4							9.8	7.6
WNW	.4	.9	.6	.6								2.5	7.7
NW	.5	.1										.7	2.7
NNW	.6											.6	2.2
VARBL	.2		5.6	1.8								8.6	9.3
CALM												8.2	
	19.8	31.7	27.9	11.9	1.7							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

106140 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS FEB MONTH

ALL WEATHER CLASS

1800-2000 HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.6	.2									1.8	3.5
NNE	2.8	1.1										3.9	3.0
NE	4.3	5.6	.7									10.3	4.0
ENE	4.3	7.0	3.9	.1								15.3	5.0
E	2.2	2.5	1.4	1.2								7.3	5.9
ESE	.1	.5										.6	4.6
SE	.4	.4	.1									.8	4.6
SSE	.2	.2										.5	3.0
S	1.3	.7	.4									2.4	3.6
SSW	1.7	1.3	.4									3.3	3.9
SW	1.3	1.3	1.5	1.1	.6							5.8	6.4
WSW	1.2	2.4	2.7	2.1	.7							9.1	8.5
W	1.4	2.5	2.2	.5	.1							6.7	6.5
WNW	.5	.1	.2									.8	4.3
NW	.1											.1	3.0
NNW	.1											.1	1.0
VARBL			2.4	1.1	.2	.1						3.8	11.0
CALM												26.8	
	23.2	26.0	16.2	6.0	1.7	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 296

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      FEB MONTH  
 ALL WEATHER CLASS      2100-2300 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.1										.5	2.3
NNE	1.4	.5										2.0	3.1
NE	3.5	2.0	.5									6.0	3.4
ENE	4.4	5.3	3.1	.5								13.4	5.0
E	2.1	1.3	.5	.5								4.5	4.9
ESE	.5											.6	1.4
SE	.5											.5	1.8
SSE	.1	.1										.2	3.5
S		.5	.1									.6	5.8
SSW	.5	1.1	1.1	.2								3.0	6.3
SW	.6	1.4	1.5	.5	.4							4.4	6.1
WSW	.7	1.5	1.7	2.6	.4							6.9	9.6
W	1.3	1.4	1.7	.2	.2							4.9	5.5
WNW	.5	.2	.1	.1								.9	5.3
NW													
NNW	.4	.1										.5	3.3
VARBL			1.7	1.1	.4							3.1	11.6
CALM												48.0	
	17.0	15.7	12.0	5.9	1.3							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 845

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

175147 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      FEB MONTH  
ALL WEATHER CLASS      ALL HOURS (LBY) CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.4	.1									1.2	3.2
NNE	1.5	1.3	.1									2.9	3.6
NE	7.0	4.0	.9									7.8	4.1
ENE	3.2	5.7	3.7	.5	.0							13.1	5.5
E	2.0	1.3	1.3	.8								5.9	5.8
ESE	.5	.3	.0									.8	2.9
SE	.3	.1	.0									.4	3.0
SSE	.2	.1	.0									.4	3.6
S	.4	.4	.2									1.0	4.4
SSW	.5	1.0	.5	.2		.0						2.4	6.0
SW	.5	1.4	1.9	1.2	.4	.1	.0					5.5	9.1
WSW	1.1	2.2	4.0	2.9	.6		.0					10.8	9.1
W	1.3	2.3	2.3	.9	.1							7.0	6.9
WNW	.5	.4	.1	.1								1.2	4.9
NW	.2	.1										.3	2.8
NNW	.2	.1										.3	2.7
VARBL	.0	.0	2.9	1.1	.3	.0						4.4	10.2
CALM												34.8	
	15.5	21.5	18.0	7.7	1.4	.1	.0					100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 6767

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105147 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS 487 MONTHS 0000-0200 HOURS (LST) CLASS ALL WEATHER CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.5										.9	3.6
NNE	.9	.2										1.0	2.4
NE	1.7	1.2	.2	.1								3.2	3.9
ENE	.9	2.7	.9	.1								4.4	5.0
E	1.8	.6	.1									2.6	2.8
ESE	.8	.1										.9	2.3
SE		.2										.2	6.0
SSE	.2											.2	3.0
S	.3	.3	.2									.9	4.8
SSW	.5	.8	.5	.1								1.9	5.3
SW	1.0	2.0	1.9	2.2	.6							7.6	9.2
WSW	1.6	3.6	5.0	3.1	.6	.1						15.1	8.5
W	2.5	4.2	1.4	1.4	.2	.1						9.8	6.4
WNW	1.4	.2		.1								1.7	3.3
NW	.2	.2										.4	3.3
NNW	.1	.1										.2	2.5
VARBL		.1	1.3	.9								2.3	10.1
CALM												46.7	
	14.1	17.1	12.4	9.0	1.5	.2						100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 929

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

125140 STATION RAMSTEIN AB GERMANY 74-83 YEARS MAR MONTH  
ALL WEATHER CLASS 0000-2500 HOURS (L G Y)  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.4	.3									1.0	5.3
NNE	.4	.3										.6	3.0
NE	1.6	1.4	.4									3.4	4.1
ENE	1.1	2.3	.7	.1								4.3	5.0
E	1.2	.6	.1									1.9	3.3
ESE	.1	.2										.3	3.3
SE	.2											.2	2.0
SSE	.2											.2	2.5
S	.2	.4	.1									.8	4.9
SSW	.4	.6	.5	.1								1.7	6.0
SW	1.3	2.4	2.7	1.7	.3	.1						8.5	8.3
WSW	1.9	3.9	6.9	3.0	.9							16.5	8.4
W	2.0	2.9	2.5	1.3	.5	.1						9.4	7.3
WNW	.3	1.0	.2									1.5	4.3
NW	.5	.1										.6	3.0
NNW	.2		.1									.3	4.0
VARBL			1.2	.3		.1						1.6	10.1
CALM												47.0	
	12.0	15.6	15.9	6.6	1.7	.3						100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION LOS140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH 4AD  
 CLASS ALL WEATHER HOURS (LBY) 0800-1800  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.4										.9	3.5
NNE	.3	.4	.2									1.0	4.4
NE	1.3	1.3	.5									3.1	4.2
ENE	1.3	2.4	1.1									4.7	5.0
E	2.7	1.3	.1									3.4	3.3
ESE	.9	.1										.9	2.1
SE		.2										.2	4.0
SSE													
S	.2	.1	.1									.4	4.5
SSW	.6	1.1	.1									1.8	4.0
SW	.9	2.0	3.3	1.5	.1							8.3	5.1
WSW	1.7	4.7	4.9	4.4	.2							15.9	8.3
W	2.4	1.9	2.9	1.9	.4							9.6	7.4
WNW	.6	.4	.1		.1							1.3	5.0
NW	.4											.4	2.5
NNW	.1	.2	.1									.4	5.3
VARBL		.1	1.3	1.1	.2	.1						2.8	11.8
CALM												44.6	
	13.1	16.9	15.2	8.9	1.1	.1						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 930

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

106140 STATION RAMSTEIN AB GERMANY 74-83 YEARS 4AR MONTH  
ALL WEATHER CLASS 0900-1100 HOURS (LST) CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.3	.3									1.2	5.2
NNE	.9	.8										1.6	3.5
NE	1.4	1.9	.2									3.5	4.1
ENE	2.2	3.4	2.7	.4								6.1	5.4
E	1.7	1.3	.9	.1								3.6	5.2
ESE	.8	.1										.9	1.9
SE	.7											.2	2.5
SSE	.7											.2	1.0
S	.4	.5	.5									1.5	4.9
SSW	.5	.8	.5	.1	.1							2.2	6.6
SW	1.1	2.9	2.9	3.2	.4	.1						10.5	8.7
WSW	1.8	4.5	7.4	4.6	.5							18.9	8.7
W	2.7	2.6	4.7	2.2	.9							12.3	7.7
WNW	1.1		.2									1.3	3.3
NW	.7											.2	2.0
NNW	.2	.2										.4	3.5
VARBL	.1	.1	3.3	1.1	.3	.1						5.1	10.0
CALM												25.2	
	15.3	20.0	22.4	11.7	2.3	.2						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 930



FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

**SURFACE WINDS**

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

105140      RAMSTEIN AB GERMANY      74-93      MAR  
STATION      STATION NAME      YEAR      MONTH

ALL WEATHER      1000-1400  
CLASS      HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.3	.2									3.4	3.5
NNE	1.9	1.8	.3									4.0	4.0
NE	1.7	2.6	.5	.2								5.2	4.6
ENE	2.0	3.3	1.5	.5								7.5	5.6
E	1.2	1.5	1.5	.8								4.9	6.7
ESE		.2			.1							.3	9.0
SE	.3	.1										.4	2.3
SSE	.1	.2	.1									.4	4.8
S	.3	.9	.3									1.5	5.1
SSW	.6	1.8	.5	.3	.1							3.5	6.3
SW	1.7	2.3	4.6	3.7	.9	.5						13.0	10.3
WSW	1.2	2.6	7.3	5.7	.9	.4						18.1	10.1
W	1.7	3.4	5.1	2.7	1.4	.1						14.4	6.9
WNW	.9	1.4	.3	.1								2.7	4.5
NW	.5	.2										.8	2.9
NNW	.3	.5	.2									1.2	4.5
VARBL		.1	9.3	2.5	.2							11.1	9.4
CALM												7.5	
	15.7	24.4	31.2	16.5	3.5	1.2						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS      930

2  
 GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

175147 RAMSTEIN AB GERMANY 74-83 MAP NORTH  
 STATION STATION NAME YEARS  
 ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.5	.1									1.5	3.3
NNE	2.2	2.2	.4									4.7	4.2
NE	1.2	2.9	.5	.2								4.9	5.1
ENE	.8	2.3	2.2	.4	.1							5.5	6.9
E	.5	1.2	1.7	.8								4.3	7.5
ESE	.3		.1									.4	3.8
SE		.3										.3	5.3
SSE	.1	.3	.1									.5	4.8
S	.9	.9	.8									2.5	4.9
SSW	1.4	2.3	1.7									5.2	5.2
SW	.3	2.4	3.7	3.8	.5	.1						11.2	10.0
WSW	1.3	2.9	5.9	6.7	1.5	.3						18.2	10.6
W	1.8	4.4	5.7	3.7	1.2	.1						16.9	8.7
WNW	.5	2.2	1.3	.3								4.3	6.2
NW	.5	.4	.1									1.1	4.2
NNW	.5	.8										1.3	3.9
VARBL		.1	9.8	2.6	.4							12.7	9.5
CALM												4.6	
	13.4	25.5	33.9	18.4	3.8	.5						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 105140 STATION NAME: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: MAR  
 CLASS: ALL WEATHER HOURS (L.S.T.): 1800-2000  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6										1.8	3.3
NNE	1.3	1.2	.1									2.6	3.3
NE	2.7	3.1	.3									6.1	3.8
ENE	2.6	3.4	2.2	.1								8.3	5.1
E	1.7	1.7	1.5	.3								3.9	6.5
ESE	.2	.3										.5	3.6
SE	.5	.2										.8	3.1
SSE	.4	.6										1.1	3.6
S	1.1	1.1	.4									2.6	4.2
SSW	1.5	3.1	1.7	.2								5.8	4.9
SW	.8	2.5	2.7	2.4	.3	.3						9.0	9.3
WSW	2.5	4.1	4.2	3.7	.9	.5						15.2	8.5
W	3.7	4.4	4.4	3.7	.4							15.9	7.2
WNW	1.7	.5	.3	.1								2.7	3.8
NW	.5	.2										.8	3.0
NNW	.2	.4										.6	3.8
VARBL		.1	3.3	1.1	.1							4.6	9.8
CALM												17.7	
	21.8	27.1	27.5	17.2	1.7	.9						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 105140      STATION NAME: RAMSTEIN AB GERMANY      YEARS: 74-83      MONTH: MAR  
 CLASS: ALL WEATHER      HOURS (L.S.T.): 2100-2300  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.1										.5	2.4
NNE	1.9	.2										2.2	2.1
NE	2.7	1.2	.2	.1								3.5	3.7
ENE	3.4	1.9	1.7									7.1	4.5
E	.9	1.3	.1									1.9	3.4
ESE	.2											.2	1.5
SE	.4											.4	2.3
SSE	.1	.1	.2									.4	6.8
S	.9	.5	.3									1.7	3.8
SSW	.5	1.6	.5	.3								3.1	6.0
SW	1.1	2.4	1.9	1.4	.2	.5	.1					7.6	9.4
WSW	1.7	2.8	4.9	2.8	.5	.1						12.9	8.3
W	2.5	3.2	2.2	1.2	.2	.1						9.4	6.6
WNW	.5	.6	.1									1.3	3.7
NW	.1	.2										.3	4.0
NNW	.2		.1									.3	3.7
VARBL	.1		2.2	1.1	.2							3.5	10.4
CALM												43.4	
	17.1	15.9	14.6	6.9	1.2	.8	.1					100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

105143 STATION RAMSTEIN AB GERMANY 74-83 YEARS MAR MONTH  
 ALL WEATHER CLASS ALL HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.5	.1									1.4	3.7
NNE	1.2	.9	.1									2.2	3.6
NE	1.7	1.9	.4	.1								4.1	4.2
ENE	1.8	2.7	1.5	.2	.0							6.2	5.3
E	1.2	1.1	.9	.2								3.3	5.3
ESE	.4	.1	.0		.0							.6	3.0
SE	.2	.1										.3	3.3
SSE	.2	.2	.1									.4	4.1
S	.5	.6	.3									1.5	4.6
SSW	.8	1.5	.7	.1	.0							3.2	5.5
SW	1.0	2.4	3.7	2.5	.4	.2	.0					9.5	9.2
WSW	1.7	3.6	5.9	4.2	.8	.2						16.3	9.0
W	2.4	3.4	3.5	2.2	.7	.1						12.2	7.7
WNW	.9	.8	.3	.0	.0							2.1	4.5
NW	.4	.2	.0									.6	3.3
NNW	.7	.3	.1									.6	4.1
VARBL	.0	.1	3.9	1.3	.2	.0						5.5	9.8
CALM												30.0	
	15.3	20.4	20.7	10.9	2.1	.5	.0					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 7439

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

136143  
STATIONRAMSTEIN AB GERMANY  
STATION NAME74-83  
YEARSAPR  
MONTHALL WEATHER  
CLASS0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.2	.1									1.1	3.6
NNE	1.3	.4										1.8	2.8
NE	1.1	1.1	.2									2.4	4.0
ENE	2.2	2.1	.9	.4								5.7	4.7
E	1.3	.2										1.5	2.3
ESE	1.0	.2										1.2	2.3
SE	.1											.1	1.0
SSE													
S	.4	.1										.6	2.4
SSW	.6	.3	.3		.2							1.4	6.9
SW	.4	.9	.7	.6								2.6	7.2
WSW	1.6	4.0	1.8	.7								8.0	5.7
W	3.9	2.7	1.3	.3								8.2	4.4
WNW	1.2	.1	.1									1.4	2.5
NW	.7											.7	2.3
NNW	1.1	.1	.1									1.3	2.5
VARBL		.1	.3	.4	.1							1.4	10.3
CALM												60.4	
	17.8	12.7	6.3	2.4	.3							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

899

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      APR MONTH  
 ALL WEATHER CLASS      0300-0500 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.4	.1									1.3	3.5
NNE	.9		.1									.9	3.0
NE	1.7	1.0										2.7	3.1
ENE	1.4	1.4	1.1									4.0	4.7
E	2.2	.2	.1									2.5	2.3
ESE	.9											.9	1.5
SE	.1											.1	2.0
SSE	.1											.1	2.0
S	.1											.1	1.0
SSW	.1	.1	.4									.7	6.7
SW	.5	1.0	1.1	.4	.1							3.2	7.4
WSW	1.6	2.4	4.1	1.2	.3							9.7	7.2
W	3.1	3.1	1.5	.1								7.9	4.4
WNW	1.3	.3										1.7	2.2
NW	.5											.5	2.2
NNW	.2	.2										.4	3.3
VARBL		.2	.7	.2	.1	.1						1.3	11.7
CALM												61.9	
	15.6	10.6	9.3	2.0	.6	.1						100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 125140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH Apr  
 CLASS ALL WEATHER HOURS (LST) 0600-0800  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.4										1.3	3.1
NNE	.3	.1										.9	2.4
NE	.5	1.2	.1									1.9	4.1
ENE	.9	1.1	.9	.1								3.0	5.6
E	2.3	.7	.4									3.4	3.5
ESE	.3	.1										.9	2.1
SE	.1											.1	1.0
SSE	.3											.3	1.7
S	.1		.1									.2	4.5
SSW	.1	.1	.2									.4	6.0
SW	.7	1.3	2.0	1.2								5.2	7.7
WSW	1.7	3.6	4.1	1.0	.2							10.6	6.9
W	2.4	1.8	1.4	.1	.1							5.9	5.1
WNW	.7	.1		.2								1.0	4.9
NW	.3	.2										.6	3.0
NNW	.1	.3										.4	3.5
VARBL			1.2	.4	.1							1.8	10.1
CALM												52.0	
	12.3	11.1	10.5	3.1	.4							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

135143  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.9	.2									3.1	4.3
NNE	1.7	1.8	.2									3.7	3.7
NE	2.4	4.6	.4	.1								7.9	4.5
ENE	2.6	5.8	1.9	.9								11.0	5.6
E	2.8	2.7	.9	.2								5.6	4.4
ESE	.9	.8										1.7	3.3
SE	.2	.1	.1									.4	4.5
SSE	.3											.3	2.0
S	.2	.2	.1									.6	4.4
SSW	.4	.6	.2									1.2	4.5
SW	.4	2.0	1.3	.9								4.7	7.4
WSW	1.3	3.1	5.3	3.1								13.3	8.1
W	3.3	3.1	3.2	1.0	.1							10.8	6.0
WNW	1.0	1.0	.1									2.1	3.7
NW	.3	.3	.1									.8	4.1
NNW	.2	.7										1.4	3.5
VARBL		.1	5.9	1.2								7.2	8.8
CALM												23.2	
	19.8	28.7	20.8	7.4	.1							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

135147 STATION NAME RAMSTEIN AB GERMANY YEAR 74-83 MONTH APR  
 ALL WEATHER CLASS 1200-1400 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.7	2.8	.3									5.8	3.6
NNE	2.3	3.2	.5									6.1	4.3
NE	1.8	3.4	.7	.1								6.0	5.0
ENE	1.4	3.4	2.7	.7								8.2	6.3
E	.9	1.7	1.5	.6								4.7	6.9
ESE	.1	.9	.4	.2								1.6	7.1
SE	.7	.1	.3									.8	5.0
SSE	.7	.2	.1									.6	5.2
S	.4	1.1	.2									1.8	4.6
SSW	.4	.9	.7	.1		.1						2.2	6.8
SW	.4	1.8	1.5	.9	.1		.1					4.9	8.5
WSW	.9	2.7	4.2	2.9	.2							13.9	8.7
W	1.7	3.3	5.1	2.6	.3							13.0	8.1
WNW	.9	1.7	1.0	.1								3.7	5.6
NW	1.1	1.1	.2									2.4	4.1
NNW	1.2	1.3	.2									2.6	3.8
VARBL		.4	15.8	4.5	.3							21.1	9.3
CALM												3.4	
	16.9	33.0	35.7	12.7	1.0	.1	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 899

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

175143 STATION RAMSTEIN AB GERMANY 74-83 YEARS APR MONTH

ALL WEATHER

1500-1700

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.9	2.9	.2	.1								5.2	3.9
NNE	1.9	2.2	.3									4.4	4.1
NE	1.7	3.4	.7	.3								6.1	5.1
ENE	1.3	3.9	2.8	.6								8.2	6.4
E	.4	2.6	2.7	.4								5.4	6.8
ESE	.3	.9	1.7	.1								2.3	6.2
SE	.1	.2										.3	3.7
SSE	.3		.2									.6	4.4
S	.8	1.1	.2									2.1	4.6
SSW	1.3	.5	.7	.1								2.3	5.2
SW	.9	2.2	2.2	.9	.2							6.4	7.7
WSW	.9	2.6	3.2	2.9	.3							9.8	8.6
W	1.1	2.9	5.2	2.6	.3	.1						13.2	8.6
WNW	.4	1.4	1.6	.1								3.6	6.6
NW	.7	1.1	.3									2.1	4.6
NNW	2.2	.9	.4									3.6	3.5
VARBL		.4	15.7	4.7	.3	.2						21.3	9.4
CALM												2.1	
	16.4	29.3	37.9	12.8	1.2	.3						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      APR MONTH

ALL WEATHER CLASS      1800-2000 HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.7	2.6	.4	.1								5.8	4.2
NNE	1.9	2.7	.1									4.7	3.7
NE	4.7	3.3	1.3	.2								10.0	4.2
ENE	1.2	4.2	2.4	.6								8.4	6.1
E	2.3	2.3	2.6	.4								7.7	5.6
ESE	.3	1.1	.3									1.8	5.3
SE	.3	.1	.2									.7	4.0
SSE	.7	.7										1.3	3.3
S	.9	.4	.1									1.4	3.6
SSW	.7	1.2	.9	.1								2.9	5.6
SW	.8	1.8	1.4	.3								4.3	6.6
WSW	1.7	2.6	3.9	2.1								10.2	7.6
W	1.6	4.4	4.2	1.3	.2	.1						11.9	7.2
WNW	1.6	1.9	.9	.3								4.7	5.0
NW	.9	1.2		.1								2.2	4.5
NNW	1.2	1.3	.3	.1								2.7	4.6
VARRL		.2	7.9	1.3								9.4	8.6
CALM												9.9	
	23.3	32.2	27.1	7.1	.2	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS      990

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 105147 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH APR  
 CLASS ALL WEATHER HOURS (LST) 2100-2300  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.9	.2									2.7	3.4
NNE	2.1	1.1										3.2	3.0
NE	2.3	1.6	.6									4.4	3.8
ENE	2.0	1.3	.3	.1								4.2	4.6
E	2.0	.7										2.7	2.9
ESE	1.1											1.1	1.7
SE	.7	.1										.8	2.3
SSE	.1											.1	1.0
S	.1	.5	.1									.5	5.0
SSW	.9	.5	.6		.2							2.1	6.4
SW	1.0	1.1	.5		.2							2.9	5.8
WSW	1.7	3.9	1.3	1.1								8.3	6.2
W	3.9	2.9	1.7	.2								8.4	4.4
WNW	1.7	1.1	.1									2.9	3.1
NW	.9	.2										1.1	2.7
NNW	.3	.7										1.0	4.3
VARBL		.1	1.2	.3								1.7	8.7
CALM												51.6	
	22.1	15.6	7.6	1.8	.4							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 930

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

# SURFACE WINDS

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      APR MONTH

ALL WEATHER CLASS      ALL HOURS (L & N) HOURS

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.5	1.5	.2	.0								3.4	3.8
NNE	1.6	1.4	.2									3.2	3.7
NE	2.3	2.5	.5	.1								5.2	4.4
ENE	1.6	2.9	1.7	.4								6.6	5.7
E	1.8	1.4	.9	.2								4.3	4.9
ESE	.7	.5	.2	.0								1.4	4.2
SE	.3	.1	.1									.4	3.6
SSE	.3	.1	.0									.4	3.4
S	.4	.4	.1									.9	4.2
SSW	.5	.5	.5	.0	.1	.0						1.7	6.0
SW	.7	1.5	1.4	.7	.1		.0					4.3	7.4
WSW	1.4	3.1	3.5	1.9	.1							10.1	7.5
W	2.6	3.0	3.1	1.0	.1	.0						9.9	6.4
WNW	1.1	1.0	.5	.1								2.6	4.6
NW	.7	.5	.1	.0								1.3	3.9
NNW	.9	.7	.1	.0								1.7	3.7
VARBL		.2	6.1	1.7	.1	.0						8.2	9.3
CALM												34.3	
	19.1	21.4	19.4	6.2	.5	.1	.0					100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 7198

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140 STATION RAMSTEIN AB GERMANY 74-83 YEARS MAY MONTH  
 ALL WEATHER CLASS 0000-0200 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.1										.3	2.7
NNE	.4											.4	2.0
NE	1.5	.2										1.7	2.3
ENE	1.7	1.8	.5	.1								4.2	4.4
E	2.7	.6	.1									3.4	2.6
ESE	.7	.1										1.0	2.1
SE	.1											.1	3.0
SSE	.2		.1									.3	3.3
S	.4	.1	.1									.6	3.5
SSW	.8	1.0	.4	.1								2.3	4.9
SW	.8	1.0	.8									2.5	4.9
WSW	1.7	3.3	1.4	.2								6.7	5.3
W	3.3	3.7	2.7	.1								9.1	4.7
WNW	1.1	.4										1.5	3.0
NW	.3	.1										.4	2.5
NNW	.1	.3										.4	4.0
VARBL			1.3	.2								1.6	8.9
CALM												63.3	
	15.2	12.8	5.9	.8								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 106140      STATION NAME: RAMSTEIN AB GERMANY      YEARS: 74-83      MONTH: MAY  
 CLASS: ALL WEATHER      HOURS (L.S.T.): 0100-0500  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.3										.9	2.9
NNE	.4	.1										.5	2.4
NE	.4	.2	.1									.5	3.4
ENE	1.9	2.0	.9									4.8	4.1
E	2.5	.4	.1									3.0	2.4
ESE	1.0	.2										1.2	2.0
SE	.1											.1	1.0
SSE				.1								.1	11.0
S	.2	.5										.8	3.7
SSW	.2	.6	.1	.1								1.1	6.1
SW	.9	1.7	.5	.2								3.3	5.6
WSW	2.3	4.1	1.4	.3								8.1	5.0
W	4.2	2.5	1.9	.5								9.1	4.7
WNW	1.3	.2										1.5	2.3
NW	.5											.5	1.8
NNW	.8											.8	1.9
VARBL			.5									.6	3.8
CALM												62.6	
	17.2	13.0	5.7	1.3								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 930



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

106140 STATION RAMSTEIN AB GERMANY 74-83 YEARS MAY MONTH  
 0600-0800 HOURS (L.S.T.)  
 ALL WEATHER CLASS  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5	.1									1.2	4.0
NNE	.6	.4										1.1	3.3
NE	.9	.5										1.4	3.0
ENE	1.7	2.3	.5									4.6	4.5
E	3.2	1.9		.1								5.3	3.1
ESE	1.1	.4										1.5	2.6
SE	.1											.1	1.0
SSE													
S	.3	.4										.8	3.9
SSW	.5	1.1	.5									2.2	4.7
SW	1.4	2.3	1.1	.1								4.8	5.2
WSW	1.6	3.6	3.1	.4								8.7	6.0
W	3.6	2.0	1.9	.5								8.2	5.3
WNW	.9	.3	.1									1.3	3.3
NW	.1	.1										.2	3.0
NNW	.2											.2	1.5
VARBL			1.3		.1							1.4	9.2
CALM												57.1	
	16.3	15.9	9.8	1.3	.1							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 929

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

176140 STATION RAMSTEIN AB GERMANY 74-83 YEARS MAY MONTH  
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3										2.0	3.4
NNE	.8	2.0	.3									3.1	4.3
NE	2.3	2.5	.5	.1								5.5	4.6
ENE	4.7	6.3	2.0	.3								12.7	5.0
E	3.2	1.2	1.0	.8								6.1	4.9
ESE	.5	.2	.1									.9	4.0
SE	.2	.1										.3	4.0
SSE	.3	.2										.5	3.4
S	.5	.3										.9	3.0
SSW	.4	1.1	1.4									2.9	6.2
SW	.5	2.6	3.1	.4								6.7	7.0
WSW	2.4	3.9	3.4	1.2								10.9	6.4
W	4.7	4.3	3.5	2.8	.1							14.7	6.7
WNW	1.7	.6	.1									1.7	3.6
NW	1.1	.1										1.2	2.0
NNW	.9	.4	.1									1.3	3.4
VARBL		.1	6.7	2.7	.2							9.7	9.5
CALM												18.0	
	23.7	27.3	22.5	9.3	.3							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

105147 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS MAY MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	2.2	.2									4.6	3.7
NNE	2.3	1.9	.2									4.4	3.8
NE	1.5	3.4	.1									5.1	4.2
ENE	1.3	3.3	1.5	.3								6.5	5.8
E	1.3	1.8	1.2	.8								4.7	6.7
ESE	.3	.3	.2									.9	5.1
SE	.5	.2	.2	.1								1.1	5.1
SSE	.5	.5	.1	.1								1.4	4.2
S	.5	1.5	.5	.1								2.7	5.2
SSW	.8	2.5	1.1	.2								4.6	5.7
SW	.9	3.2	2.3	1.4								7.6	7.3
WSW	1.2	4.6	4.9	1.2								11.5	6.9
W	2.3	4.4	4.2	1.9	.3							13.4	7.2
WNW	1.5	1.5	.4	.1								3.5	4.4
NW	.3	.5										.9	3.8
NNW	.5	.5	.1									1.3	4.1
VARBL		.2	15.7	5.5	.8							22.2	9.8
CALM												3.7	
	13.1	32.9	32.3	11.5	1.1							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.3	.1									3.5	4.4
NNE	1.9	2.2	.2									4.3	3.8
NE	1.5	2.9	.2									4.6	4.3
ENE	1.1	3.2	1.3	.4								6.0	5.9
E	1.7	2.5	1.5	1.0								6.1	6.9
ESE	.5	.3	.9	.3								1.9	6.5
SE	.2	.5										.9	4.3
SSE	.2	.6	.2									1.1	4.7
S	1.8	1.2	.3									3.3	3.8
SSW	1.2	1.9	1.3	.2								4.5	5.7
SW	1.2	2.9	3.7	.8								7.8	6.7
WSW	1.5	3.8	4.7	1.9	.1							12.0	7.5
W	1.2	3.9	5.1	2.5	.5							13.1	8.2
WNW	1.5	1.4	.9	.1	.1							3.9	5.3
NW	.5	.4	.3									1.4	4.7
NNW	1.1	.9										1.9	3.4
VARBL		.3	14.5	6.5								21.3	9.7
CALM												2.2	
	17.7	21.3	34.4	13.7	.9							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

932

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140      RAMSTEIN AB GERMANY      74-83      MAY

STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      1800-2000

CLASS      HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.0	.1									3.7	3.0
NNE	3.3	2.7	.1									6.1	3.6
NE	3.5	3.2	.5									7.3	3.8
ENE	2.2	3.3	1.7	.2								7.4	5.2
E	1.9	1.9	2.6	1.0								7.4	6.5
ESE	.2	.9	1.7	.1								2.2	6.8
SE	.9											.9	2.3
SSE	1.1	.3										1.4	2.8
S	1.3	1.2	.1									2.6	3.5
SSW	1.7	1.1	.5									3.4	4.0
SW	1.6	3.0	2.4	.4	.1							7.5	6.2
WSW	2.6	4.3	3.5	1.2	.1							11.7	6.3
W	2.9	4.5	4.1	1.8	.2							13.4	7.0
WNW	1.0	1.3	.9	.4								3.4	5.8
NW	.3	.4	.1									.9	4.5
NNW	.9	.9										1.7	3.6
VARBL			2.7	2.7	.1							11.8	9.4
CALM												7.1	
	27.8	30.0	25.7	7.8	.5							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS      930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175140 STATION RAMSTEIN AB GERMANY 74-83 YEARS 4AY MONTH  
 CLASS ALL WEATHER 2100-2300 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	.3										1.7	2.4
NNE	2.3	.5										2.3	2.5
NE	2.3	1.4	.1									3.8	3.3
ENE	2.9	2.0	1.0	.1								6.0	4.1
E	2.4	1.3	.6									4.3	3.7
ESE	.9	.3										1.1	2.1
SE	.9											.9	1.9
SSE		.1										.1	4.0
S	1.1	.2										1.3	2.5
SSW	1.5	.5	.4	.1								2.6	4.0
SW	1.1	1.8	.9	.2								4.0	5.1
WSW	1.9	3.0	1.7	.3								7.0	5.3
W	2.9	3.8	2.3	1.0								9.9	5.8
WNW	1.2	.2	.1		.1							1.5	3.7
NW	.3		.3	.1								.8	6.4
NNW	.3	.2										.5	3.2
VARBL			2.3	.5								2.3	8.5
CALM												48.9	
	23.1	15.8	9.7	2.4	.1							100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175140 RAMSTEIN AB GERMANY

74-33

MAY

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	1.0	.1									2.4	3.5
NNE	1.5	1.2	.1									2.3	3.6
NE	1.7	1.8	.7	.7								3.8	3.9
ENE	2.1	3.1	1.2	.2								6.5	4.9
E	2.2	1.5	.9	.4								5.1	5.0
ESE	.7	.3	.3	.1								1.4	4.3
SE	.4	.1	.7	.3								.5	3.4
SSE	.3	.2	.1	.3								.6	3.9
S	.8	.7	.1	.3								1.6	3.9
SSW	.9	1.2	.7	.1								2.9	5.2
SW	1.7	2.3	1.7	.4	.3							5.5	6.3
WSW	1.9	3.8	3.0	.8	.3							9.6	6.2
W	3.1	3.5	3.1	1.4	.1							11.4	6.4
WNW	1.2	.8	.3	.1	.3							2.3	4.3
NW	.5	.2	.1	.3								.3	3.6
NNW	.5	.4	.7									1.3	3.4
VARBL		.1	5.4	2.3	.1							8.9	9.6
CALM												22.9	
	27.1	22.4	13.4	5.9	.4							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

7439

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

175140      RAMSTEIN AB GERMANY      74-83      JUN  
STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      0000-0200  
CLASS      HOURS (LST)

CONDITION

SPEED KNOTS: DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5											.5	1.6
NNE	.4	.1										.5	2.2
NE	.3	.1										1.0	2.3
ENE	.3	1.2	.7									2.3	4.6
E	1.7	.2										1.2	2.2
ESE	.5											.5	1.5
SE		.1										.1	4.0
SSE	.1											.1	2.0
S	.4	.2										.7	2.7
SSW	1.7	.1		.1								1.4	2.8
SW	.4	.9	1.2	.3								2.9	6.9
WSW	1.7	2.4	1.9	.3								5.5	5.3
W	4.4	3.2	1.8									9.2	3.9
WNW	1.7	.5	.2									2.4	3.0
NW	.5	.2		.1								.9	4.0
NNW	.2											.2	2.0
VARBL			.5	.1								.7	9.5
CALM												59.5	
	15.4	7.5	5.5	1.0								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS      899



2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 105140 RAMSTEIN AB GERMANY STATION NAME: 74-83 YEARS: JUN MONTH: 0700-0600 HOURS (LST)  
 CLASS: ALL WEATHER  
 CONDITION:

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.2										.6	3.6
NNE	.3											.7	2.3
NE	.4	.6										.7	2.7
ENE	.5	.6	.7									1.1	4.3
E	1.3	.7										1.2	2.3
ESE	.7	.1										.7	2.7
SE													
SSE													
S	.3	.1										.4	2.3
SSW	.3	.6										1.1	4.6
SW	1.3	1.1	.5	.1								2.3	4.9
WSW	1.3	4.3	2.7	.2								3.1	5.2
W	4.4	2.8	1.3	.3								3.9	4.1
WNW	1.1	.2										1.1	2.5
NW	.4											.4	1.7
NNW	.1	.1										.2	4.0
VARBL			.7	.3								1.0	9.7
CALM												71.1	
	12.7	13.2	5.2	1.2								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 930

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106147 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      JUN MONTH  
 ALL WEATHER CLASS      0000-2800 HOURS (LST)

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.3										1.0	2.9
NNE	.9	.1										1.0	1.9
NE	.4	.4										.9	4.0
ENE	1.7	1.2	.2									2.7	3.7
E	2.7	1.1										3.1	2.9
ESE	1.7	.1										1.1	1.6
SE													
SSE													
S													
SSW	.7	.3	.2									.6	5.0
SW	1.1	1.6	1.9	.5	.1							4.8	6.6
WSW	3.0	5.0	2.9	.1								11.8	4.8
W	5.7	4.0	1.6	.2								10.8	4.1
WNW	1.7	.7	.2									1.6	3.4
NW	.7	.1										.4	3.0
NNW	.1											.2	1.5
VARBL			1.1	.2								1.3	6.5
CALM												58.4	
TOTAL	13.7	14.6	7.2	1.1	.1							100.0	1.7
TOTAL NUMBER OF OBSERVATIONS													
900													

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175140 STATION RAMSTEIN AB GERMANY STATION NAME 74-93 YEARS JUN MONTH 0000-1100 HOURS (LST)

ALL WEATHER CLASS

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.1	1.3	.2									3.7	3.3
NNE	1.0	1.0										3.0	3.3
NE	2.1	2.7										4.6	3.5
ENE	4.1	5.1	.2	.3								10.5	4.3
E	3.2	2.2	.2	.4								6.7	4.5
ESE	.9											.9	1.9
SE	.1											.1	1.0
SSE	.7	.1										.4	2.0
S	.3		.2									.6	4.4
SSW	.9	2.0	.4									3.3	4.6
SW	1.2	1.9	3.4	.7								7.2	6.9
WSW	2.6	4.7	5.2	1.2	.1							14.8	6.8
W	3.7	4.8	4.7	1.4								14.5	6.1
WNW	1.2	1.2	.4	.1								2.8	4.4
NW	.1	.2	.1									.4	5.0
NNW	.2	.4										1.3	3.3
VARBL		.2	5.0	.9	.1							7.2	9.1
CALM												17.2	
	25.5	23.5	23.5	5.1	.2							122.3	4.6

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

105140 STATION      RAMSTEIN AB GERMANY      74-83      YEARS      JULY      MONTH

ALL WEATHER      CLASS

100-1400      HOURS (LST)

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.9	.5									4.1	4.3
NNE	1.7	2.7										4.4	3.5
NE	1.4	3.5	.4									5.2	4.3
ENE	2.4	3.3	.4	.4								7.2	4.8
E	1.7	1.4	.7	.5								4.3	5.3
ESE	.5	.7	.7	.1								1.2	5.4
SE	.7											.2	1.0
SSE	.7	.3	.1									1.3	3.6
S	.5	1.0	.1									1.7	4.1
SSW	.7	1.4	.5	.1	.1							3.4	5.6
SW	.7	2.3	3.8	1.4	.1							5.5	8.0
WSW	2.7	3.3	5.2	1.7	.1							13.0	7.3
W	1.3	5.6	7.2	2.5	.1	.1						16.3	7.4
WNW	1.1	1.4	1.2	.1								3.9	5.4
NW	.7	.4	.3									1.5	4.6
NNW	1.4	1.1	.7									2.4	4.0
VARBL		.7	11.5	4.7	.3							17.2	9.8
CALM												3.0	
TOTAL	23.0	31.3	33.2	11.1	.8	.1						122.7	6.5

TOTAL NUMBER OF OBSERVATIONS      900

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

10107      RAMSTEIN AB GERMANY      74-83      JUN  
STATION      STATION NAME      YEAR      MONTH  
ALL WEATHER      1700-1700  
CLASS      HOURS (LST)  
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	2.3	.3									2.2	4.1
NNE	1.4	2.3	.3									4.3	3.9
NE	2.7	3.3	.3									5.9	4.5
ENE	2.1	2.9	1.7	.3								5.3	5.1
E	.7	1.4	.5	.5	.1							3.3	5.5
ESE	.5	.2	.4									1.2	5.3
SE	.4	.1	.1									.7	3.7
SSE	.1	.3	.1									.5	3.5
S	.2	.4	.2									1.7	4.0
SSW	1.7	1.1	1.4									3.5	5.6
SW	1.3	2.3	3.3	1.1	.1							9.1	7.1
WSW	1.2	3.4	4.2	2.3	.2							11.9	9.3
W	1.2	5.2	7.1	3.1	.4							17.2	8.1
WNW	1.2	1.9	.7									3.8	4.7
NW	.1	.3	.1	.1								1.1	5.4
NNW	1.2	1.7	.3									3.2	4.4
VARBL	.1	.5	13.4	3.7	.4							18.2	9.4
CALM												3.0	
	17.7	31.9	33.4	11.7	1.3							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 970

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# SURFACE WINDS

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

106140 STATION RAMSTEIN AB GERMANY 74-83 YEARS JUN MONTH

ALL WEATHER CLASS

1000-2000 HOURS (LST)

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.7	2.3										5.0	3.2
NNE	3.4	3.1	.1									6.7	3.4
NE	7.7	2.6	.7									5.2	3.9
ENE	1.5	3.1	.7	.1								5.4	4.9
E	1.0	.7	.7	.7								7.8	5.5
ESE	.5	.3	.1									1.0	3.9
SE	.7	.1	.1									.9	3.3
SSE	.7	.5										1.2	2.8
S	1.2	1.1	.2									2.5	3.9
SSW	.8	1.1	1.1									3.0	5.4
SW	1.5	2.4	2.0	1.0								7.0	6.3
WSW	2.7	5.3	5.1	1.9	.2							14.8	6.9
W	2.3	5.3	5.7	2.3	.3							18.0	7.1
WNW	1.5	2.1	.7	.1								4.7	5.1
NW	.4	1.5	.7									2.2	4.4
NNW	.4	.8	.7									1.5	4.4
VARBL			3.7	2.1								10.8	9.2
CALM												6.2	
	24.2	33.5	27.0	7.7	.5							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 970

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION RAMSTEIN AB GERMANY 74-83 YEARS JJN MONTH  
 ALL WEATHER CLASS 2100-2300 HOURS (LST) CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	AVE SPEED
N	1.5	.7										2.2	2.7
NNE	2.0	1.2										4.3	2.9
NE	2.6	1.7	.1									4.3	3.4
ENE	1.9	1.2										3.1	3.3
E	.7	.8										1.4	3.3
ESE	.5	.1										.7	1.8
SE	.7	.1										.4	2.3
SSE	.2	.1										.3	2.3
S	.7	.3										1.0	3.0
SSW	.9	.8	.5									2.2	5.0
SW	.9	1.3	1.2	.4								3.6	6.2
WSW	4.1	3.9	3.8	.3	.2							12.3	5.4
W	6.2	3.2	1.9	.4								11.7	4.3
WNW	1.5	.8	.1									2.1	2.8
NW	1.7	.2										1.8	3.2
NNW	.7	.3										1.0	2.9
VARBL			.5	.1								.7	8.2
CALM												47.1	
	25.6	15.7	8.1	1.3	.2							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AFW WEATHER SERVICE/MAC

# SURFACE WINDS

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

175143      RAMSTEIN AB GERMANY      74-83      JUN  
STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      ALL  
CLASS      HOURS (L & T)

CONDITION

SPEED KNTS/ DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.3	.1									2.8	3.6
NNE	1.7	1.4	.7									3.1	3.3
NE	1.5	1.3	.7									3.6	3.8
ENE	1.8	2.0	.5	.2								4.3	4.5
E	1.4	1.7	.4	.2	.3							3.5	4.5
ESE	.5	.2	.1	.3								.9	3.5
SE	.2	.1	.7									.3	3.3
SSE	.3	.2	.7									.5	3.2
S	.5	.4	.1									1.0	3.7
SSW	.9	.9	.5	.3	.3							2.4	5.3
SW	1.1	1.3	2.2	.7	.3							5.7	6.3
WSW	2.5	4.3	4.7	1.1	.1							11.6	5.4
W	3.7	4.4	4.7	1.2	.1	.3						13.4	6.1
WNW	1.2	1.3	.5	.3								2.3	4.3
WW	.3	.5	.1	.3								1.2	4.0
NNW	.7	.6	.1									1.3	3.9
VARBL	.7	.2	5.3	1.5	.1							7.1	9.4
CALM												34.3	
	23.3	22.3	13.2	5.7	.4	.3						100.0	3.7

TOTAL NUMBER OF OBSERVATIONS      7198



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 175140 NAME: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: JUL  
 CLASS: ALL WEATHER HOURS (LST): 0000-0200  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5											.6	1.8
NNE	.2	.3										.5	3.2
NE	.3	.2										.5	2.4
ENE	1.2	.4	.1									1.7	3.1
E	1.3	.6										1.9	2.8
ESE	.2											.2	2.5
SE	.3											.3	1.7
SSE	.1											.1	2.0
S		.1										.1	5.0
SSW	.4	.5	.1									1.1	3.9
SW	.5	.8	1.4	.6								3.3	7.8
WSW	2.6	2.7	2.2	.9								8.3	5.7
W	4.5	3.4	2.0	.2								10.3	4.4
WNW	1.5	.5	.1									2.2	2.8
NW	.3	.2										.5	3.0
NW													
VARBL			.1									.1	7.0
CALM												68.1	
	14.3	9.9	5.7	1.7								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 189140      STATION NAME: RAMSTEIN AB GERMANY      YEARS: 74-83      MONTH: JUL  
 CLASS: ALL WEATHER      HOURS (L & T): 0300-0500  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2											.2	1.5
NNE	.1	.3										.4	3.3
NE			.1									.1	9.0
ENE	.9	.3										1.2	2.5
E	1.1	.6										1.7	2.6
ESE													
SE	.2											.2	2.0
SSE	.1		.1									.2	5.0
S	.1		.1									.2	6.0
SSW	.2	.1	.3									.6	5.3
SW	.9	1.2	1.9	.1								4.0	6.2
WSW	1.4	2.8	2.7	.8								7.0	6.2
W	3.8	3.5	1.3	.1								8.7	4.3
WNW	1.5	.5	.1									2.2	3.1
NW	.1	.1										.2	3.5
NNW	.4											.4	2.0
VARBL			.1		.1							.2	12.0
CALM												72.4	
	12.9	9.6	6.1	1.0	.1							100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

179140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      JUL MONTH

ALL WEATHER CLASS      3600-0800 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	1.5
NNE	.4	.1										.5	2.2
NE	.1	.1										.2	3.5
ENE	.9	.4		.1								1.4	4.0
E	3.1	.9										3.9	2.6
ESE	.8	.1										.9	1.8
SE	.2	.1										.3	3.0
SSE													
S			.4									.4	8.0
SSW	.3	.3	1.1									1.7	6.8
SW	.5	1.6	2.0									4.2	6.3
WSW	2.3	3.9	3.7	.5								10.3	6.0
W	4.0	4.1	1.7	.2								10.0	4.5
WNW	1.6	.2										1.8	2.2
NW	.7	.1										.3	2.3
NNW	.1											.1	2.0
VARBL			.2									.2	8.0
CALM												62.9	
	15.2	11.9	9.2	.9								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 928

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 174143 STATION NAME: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: JUL  
 CLASS: ALL WEATHER HOURS (L.S.T.): 0900-1100  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.5	2.9
NNE	2.2	1.2	.1									3.4	3.3
NE	2.4	1.9	.1									4.4	3.6
ENE	3.2	4.6	.5	.1								3.6	4.3
E	2.7	2.2	.5	.1								5.6	4.0
ESE	2.0	.2	.1									2.4	2.5
SE	.2	.1										.3	2.7
SSE	.3	.1	.1									.5	3.6
S	.3	.2	.7									.8	4.6
SSW	.6	.5	1.2	.5								2.9	7.3
SW	.9	1.9	2.5	.6								5.9	7.3
WSW	3.7	4.3	6.2	1.8								15.4	6.7
W	2.4	5.0	5.1	1.4								14.8	6.3
WNW	2.8	.8	.3									3.9	3.1
NW	.5	.1	.1									.8	3.1
NNW	1.0	.8										1.7	3.4
VARBL			4.9	1.7								6.7	9.2
CALM												19.5	
	26.0	25.9	22.3	6.3								170.0	4.5

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175143      RAMSTEIN AB GERMANY      74-83      JUL  
STATION      STATION NAME      YEARS      MONTH  
ALL WEATHER      1953-1983  
CLASS      HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	1.7	.3									4.9	3.5
NNE	1.4	2.2	.2									3.8	3.8
NE	1.2	2.7	.4	.1								4.4	4.6
ENE	1.5	2.8	1.3	.2								5.8	4.9
E	.4	3.2	1.5	.2								5.5	6.0
ESE	.5	1.1	.2	.1								2.0	4.6
SE	.2	.2	.2									.6	5.5
SSE	.5	.2	.3									1.2	3.5
S	1.0	.5	.4									1.9	4.4
SSW	.8	1.2	.5	1.0								3.4	7.1
SW	.5	2.0	2.3	1.3								5.1	7.9
WSW	1.1	5.3	5.5	3.1	.1							16.0	8.0
W	3.1	4.6	5.5	2.0								16.2	6.9
WNW	1.5	2.4	.5	.1								4.7	4.7
NW	.3	.5	.2									1.3	4.7
NNW	1.3	1.4	.1									2.8	3.7
VARBL		.5	10.9	3.4								14.8	9.3
CALM												4.3	
	18.6	32.8	32.6	11.6	.1							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 936

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 105140 STATION NAME: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: JUL  
 CLASS: ALL WEATHER HOURS (L.S.T.): 1500-1700  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	3.0	.4									5.6	4.1
NNE	2.0	2.2	.2									4.4	4.0
NE	.9	2.6	.1									3.5	4.2
ENE	1.7	2.7	1.3									5.7	4.8
E	1.3	1.9	.5	.3								4.1	5.1
ESE	.4	1.0	.4									1.8	4.9
SE	.5	.2										.8	2.9
SSE	.5	.5	.4									1.6	4.7
S	.2	1.2										1.4	4.5
SSW	.7	1.3	.1	.9								3.1	6.7
SW	.5	2.3	1.9	.8	.2							5.7	7.3
WSW	1.9	3.7	5.0	3.3	.1							15.1	8.0
W	1.4	4.1	3.2	4.0								17.6	8.4
WNW	1.4	2.3	1.3	.3								5.3	5.7
NW	1.7	.5	.8									2.3	4.6
NNW	1.3	1.9	.3									3.5	4.1
VARBL		.4	11.8	3.5	.3							16.1	9.4
CALM												2.4	
	13.3	31.7	33.9	13.1	.6							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 135140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH JUL  
 CLASS ALL WEATHER HOURS (LST) 1300-2000  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.5	2.0	.3									4.7	3.9
NNE	3.1	1.8	.5									5.5	3.6
NE	2.8	3.1	.3	.1								6.3	4.1
ENE	2.0	3.7	1.0									6.7	4.6
E	1.3	1.7	1.9									4.9	5.5
ESE	.5	1.4	.3									2.3	4.9
SE	.2	.2	.1									.5	4.0
SSE	.4	.4	.1	.1								1.1	4.9
S	1.3	.5	.3	.2								2.4	4.5
SSW	1.0	.6	1.0	.1								2.7	5.6
SW	.5	2.3	2.8	.5								5.1	7.1
WSW	2.9	4.0	4.7	2.2								13.8	6.9
W	1.9	5.7	8.4	2.2	.2							17.4	7.2
WNW	1.0	3.0	.4	.2								4.6	5.3
NW	.9	1.5	.1									2.5	4.2
NNW	.6	1.2										1.8	3.8
VARBL		.2	5.9	1.9								8.1	9.4
CALM												5.5	
	23.1	34.4	28.3	7.5	.2							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

176143 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      JUL MONTH

ALL WEATHER CLASS      2100-2370 HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.1	.1									1.5	2.5
NNE	2.2	.6										2.8	2.6
NE	2.7	.9	.1									3.7	2.8
ENE	2.5	1.8										4.3	3.1
E	2.7	.9	.1									3.7	2.6
ESE	.5	.2										.8	2.6
SE	.1											.1	2.0
SSE	.2	.1										.3	2.3
S	.4											.4	2.3
SSW	.5	.5	.4	.3								1.9	6.2
SW	1.2	1.8	.9	.2	.1							4.2	5.8
WSW	2.7	3.7	3.3	.4								10.1	5.7
W	4.5	5.1	2.9	.3								12.8	4.8
WNW	1.6	1.2		.1								2.9	3.4
NW	.4	.4										.9	3.1
NNW	.5	.2	.1									.9	3.9
VARBL			1.3	.1								1.1	8.4
CALM												47.8	
	24.1	17.5	8.9	1.5	.1							100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 930



2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

105140  
STATIONRAMSTEIN AB GERMANY  
STATION NAME74-83  
YEARSJUL  
MONTHALL WEATHER  
CLASSALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.0	.1									2.6	3.5
NNE	1.5	1.1	.1									2.7	3.5
NE	1.3	1.4	.1	.0								2.9	3.9
ENE	1.7	2.1	.5	.1								4.4	4.3
E	1.7	1.5	.5	.1								3.9	4.3
ESE	.5	.5	.1	.0								1.3	3.8
SE	.3	.1	.0									.4	3.4
SSE	.3	.2	.1	.0								.6	4.1
S	.4	.3	.2	.0								1.0	4.6
SSW	.5	.6	.5	.3								2.2	6.4
SW	.7	1.7	2.0	.5	.0							4.9	7.0
WSW	2.2	3.8	4.3	.6	.0							12.0	6.8
W	3.2	4.7	4.5	1.3	.0							13.7	6.2
WNW	1.5	1.4	.4	.1								3.4	4.2
NW	.5	.5	.1									1.1	4.0
NNW	.7	.7	.1									1.4	3.7
VARBL		.1	4.4	1.3	.1							5.9	9.3
CALM												35.5	
	19.8	21.7	18.4	5.5	.1							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 7438

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

**SURFACE WINDS**

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

105140 STATION RAMSTEIN AB GERMANY 74-83 YEARS AUG MONTH  
 ALL WEATHER CLASS 0000-2200 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1										.4	2.8
NNE	.1	.1										.2	3.0
NE	.2	.1										.3	2.3
ENE	.9	1.0	.4									2.3	3.9
E	1.4	.2	.1									1.7	2.4
ESE	.3	.1										.4	2.8
SE	.3	.1										.4	2.5
SSE	.1											.1	3.0
S	.1	.2										.3	4.7
SSW	.4	.1	.2									.8	5.0
SW	.9	.6	.3	.1								1.9	4.6
WSW	3.1	2.3	.9	.1								6.3	4.2
W	4.0	2.0	.2	.2								6.5	3.5
WNW	1.3	.3										1.6	2.6
NW	.1											.1	2.0
NNW	.1	.2										.3	3.7
VARBL			.4									.4	8.3
CALM												75.8	
	13.7	7.5	2.6	.4								100.0	.9

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 105140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH AUG  
 CLASS ALL WEATHER HOURS (L & T) 0300-0500  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.1										.4	2.8
NNE	.3											.3	2.0
NE	.3	.1	.2									.6	3.8
ENE	.6	.8	.2									1.6	3.8
E	1.4	.4										1.8	2.4
ESE	.2											.2	1.0
SE	.1											.1	2.0
SSE			.1									.1	8.0
S	.7											.2	2.5
SSW	.1		.1									.2	5.5
SW	.8	.9	.6	.5								2.8	6.4
WSW	1.9	2.3	.8	.1								5.6	4.8
W	3.9	2.0	.4	.3								6.7	3.7
WNW	1.2	.4	.1									1.7	3.1
NW	.6		.1									.6	3.3
NNW	.3	.2	.1									.6	4.3
VARBL													
CALM												76.1	
	12.4	7.7	2.8	1.0								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS 930

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175143 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      AUG MONTH

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

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.1										.3	2.7
NNE	.1											.1	2.0
NE	.5											.5	2.6
ENE	1.3	.5	.4									2.3	3.9
E	3.2	.6										3.9	2.4
ESE	.5	.1										.6	2.0
SE	.2											.2	1.0
SSE													
S													
SSW	.3	.3										.6	3.5
SW	.5	.9	1.1	.2								2.7	6.3
WSW	1.4	2.7	1.3	.1								5.5	5.0
W	3.0	1.8	1.5	.4								6.8	5.0
WNW	1.1	.3										1.4	2.5
NW	.2	.1	.1									.4	4.3
NNW	.3											.3	1.7
VARBL			.2	.2								.4	10.5
CALM												73.9	
	13.0	7.5	4.6	1.0								100.0	1.1

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 135143 STATION NAME: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: AUG  
 CLASS: ALL WEATHER HOURS (L & T.): 0900-1100  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.2										2.5	3.6
NNE	2.2	.9										3.3	2.8
NE	1.9	1.7	.3									3.7	3.6
ENE	3.2	4.5	.9	.2								9.6	4.2
E	2.6	2.8	1.1		.1							5.6	4.4
ESE	1.5	.6										2.3	2.8
SE	.2	.1										.3	2.3
SSE	.3											.3	1.7
S	.3	.3										.6	3.3
SSW	1.1	.1	.2									1.4	3.4
SW	1.2	1.8	1.6	.4								5.1	6.0
WSW	2.5	4.0	4.7	1.1	.1							12.5	6.4
W	5.4	4.3	3.3	1.1								13.8	4.9
WNW	1.4	.4	.2									2.0	3.3
NW	.4	.4										.9	3.1
NNW	.3	.2										.5	3.4
VARBL			2.8	.9								3.5	9.2
CALM												32.3	
	26.0	23.1	14.8	3.5	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

106140  
STATIONRAMSTEIN AB GERMANY  
STATION NAME74-83  
YEARSAUG  
MONTHALL WEATHER  
CLASS1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	.7										2.4	3.1
NNE	3.4	2.0										5.5	3.1
NE	2.2	3.5	.8									6.5	4.5
ENE	2.3	3.8	1.2	.4								7.6	4.9
E	1.1	2.7	2.5	1.6								7.8	7.5
ESE	1.1	.8	.4	.3								2.6	5.5
SE	.5	.1	.1									.8	3.6
SSE	.4	.3	.3									1.1	4.3
S	.5	.6	.1									1.3	3.8
SSW	1.3	1.7	.8	.1								3.9	4.7
SW	.6	2.4	2.5	1.1	.1							6.7	7.3
WSW	2.0	4.8	5.7	2.3								14.8	7.1
W	3.2	4.5	5.3	1.3								14.3	6.4
WNW	1.6	2.0	.6									4.3	4.3
NW	.8	.5	.2									1.5	3.8
NNW	1.1	1.1	.1									2.3	3.8
VARBL		.1	7.3	3.0	.1							10.5	9.6
CALM												6.2	
	23.7	31.9	27.8	10.1	.2							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      AUG MONTH  
 ALL WEATHER CLASS      1500-1700 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	2.4	.2									5.1	3.5
NNE	2.5	2.6	.2									5.3	3.7
NE	2.5	2.5	.1	.2								5.3	4.0
ENE	1.2	3.0	1.9	.2								6.2	5.7
E	1.4	1.9	1.5	1.0								5.8	6.9
ESE	1.1	1.3	.2	.2								2.8	4.7
SE	.2	.5	.1									.9	4.3
SSE	.2	.3		.1								.6	5.0
S	.4	1.0	.1									1.5	4.4
SSW	1.0	1.5	.9									3.3	5.2
SW	1.5	3.8	3.2	1.0	.1							9.6	6.7
WSW	1.6	3.5	4.2	1.6	.2							11.2	7.4
W	3.3	5.7	5.8	2.6	.1							17.5	6.8
WNW	1.8	1.9	.4	.2								4.3	4.5
NW	1.0	1.3	.2									2.5	4.0
NNW	.9	1.2										2.0	4.1
VARBL	.1	.2	9.0	2.8								12.2	9.1
CALM												4.0	
	23.1	34.5	29.1	9.9	.4							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS      930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

106140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      AUG MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.8										3.9	3.4
NNE	2.6	1.9	.3									4.8	3.5
NE	2.7	2.4	.1	.1								5.3	3.5
ENE	2.7	3.7	1.3	.2								7.9	4.7
E	2.5	2.2	2.0	.4								7.1	5.4
ESE	1.5	.4	.4									2.4	3.7
SE	.8	.2	.1									1.1	3.2
SSE	.4	.1	.1									.6	3.3
S	1.7	.3										2.0	2.5
SSW	2.7	1.0	.8									4.4	3.9
SW	2.3	2.9	1.5	.2								6.9	5.2
WSW	3.2	5.2	3.3	1.0	.1							12.8	5.9
W	2.6	5.5	5.1	.6								13.8	6.1
WNW	2.2	1.6	.5									4.3	4.0
NW	1.3											1.3	2.1
NNW	1.3	.5	.1									1.9	2.9
VARBL			3.3	1.0								4.3	9.6
CALM												15.3	
	32.4	29.7	19.0	3.5	.1							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 930



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

135140      RAMSTEIN AB GERMANY      74-83      AUG

STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      2100-2300

CLASS      HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3											.8	1.9
NNE	1.2	.3										1.5	2.1
NE	1.1	.4										1.5	2.8
ENE	3.3	1.7										5.1	2.7
E	2.2	.5										2.7	2.2
ESE	.9	.1										.9	1.9
SE	.2	.1										.3	2.7
SSE	.2	.1										.3	3.3
S	.6	.2										.9	2.4
SSW	1.3	.2	.1									1.6	2.9
SW	1.7	1.0	1.0	.2								3.9	4.9
WSW	3.2	2.4	.3	.1								6.0	3.7
W	4.1	2.0	.9	.1								7.0	3.7
WNW	1.1	.5										1.6	2.5
NW	.6	.2										.9	2.8
NNW	.2											.2	2.5
VARBL			.2	.2								.4	12.0
CALM												54.5	
	22.6	9.9	2.4	.6								100.1	1.2

TOTAL NUMBER OF OBSERVATIONS 929

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 175140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH AUG  
 CLASS ALL WEATHER HOURS (LST) ALL  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.8	.0									2.0	3.3
NNE	1.5	1.0	.1									2.6	3.2
NE	1.4	1.3	.2	.0								3.0	3.8
ENE	1.9	2.4	.8	.1								5.2	4.4
E	2.0	1.4	.9	.4	.0							4.7	5.1
ESE	.9	.4	.1	.1								1.5	3.8
SE	.3	.1	.0									.5	3.2
SSE	.2	.1	.1	.0								.4	4.0
S	.5	.3	.0									.9	3.3
SSW	1.0	.6	.4	.0								2.0	4.3
SW	1.2	1.8	1.5	.5	.0							4.9	6.1
WSW	2.4	3.5	2.6	.8	.1							9.3	6.0
W	3.7	3.5	2.9	.8	.0							10.6	5.4
WNW	1.5	.9	.2	.0								2.7	3.7
NW	.5	.3	.1									1.0	3.4
NNW	.5	.4	.0									1.0	3.5
VARBL	.0	.0	2.9	1.0	.0							4.0	9.4
CALM												43.5	
	20.8	19.0	12.8	3.8	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 7439

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      SEP MONTH

ALL WEATHER CLASS      0000-0200 HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5											.5	1.8
NNE	.4	.2										.7	3.2
NE	.4											.4	2.3
ENE	1.1	.1										1.2	2.4
E	1.7	.2										1.2	2.4
ESE	.3	.2										.6	3.0
SE	.3	.1										.4	2.8
SSE													
S	.3	.2										.6	3.2
SSW	.4	.9	.3									1.7	4.9
SW	.7	2.2	1.4	1.0								5.3	7.0
WSW	2.2	2.7	3.3	2.0								10.2	7.1
W	2.8	2.2	1.9	.4								7.2	5.1
WNW	1.1	.2										1.3	2.5
NW	.1											.1	3.0
NNW	.2		.1									.3	4.0
VARBL			.6	.4	.2							1.2	11.7
CALM												66.9	
	12.1	9.3	7.5	3.9	.2							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS      900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175143 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      SEP MONTH

ALL WEATHER CLASS      0300-0500 HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1										.4	2.0
NNE	.2											.2	3.0
NE	.3	.2										1.3	3.0
ENE	.4	.1										.5	2.4
E	1.1	.3										1.4	2.7
ESE	.7	.1										.6	2.7
SE	.1											.1	1.0
SSE													
S		.1	.3									.4	7.5
SSW	.3	.7	.4									1.4	5.1
SW	.9	1.9	1.1	.4								4.2	6.2
WSW	2.0	3.9	3.3	1.1								10.3	6.6
W	3.2	2.8	2.2	.6								8.8	5.3
WNW	.5											.6	1.6
NW	.2	.1										.3	2.7
NNW	.1											.1	2.0
VARBL			.7	.7	.1							1.4	11.6
CALM												67.7	
	13.9	13.3	8.1	2.8	.1							100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 899

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      SEP MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	.1										.3	2.7
NNE	.3											.3	1.3
NE	1.1	.2										1.3	2.5
ENE	1.4	.4										1.9	2.7
E	1.9	.8										2.7	2.8
ESE	.4	.1										.6	2.2
SE													
SSE													
S	.2	.1										.3	3.3
SSW	.6	.6	.3	.1								1.6	5.2
SW	.4	1.1	1.5	.8								3.9	7.8
WSW	1.6	3.1	5.4	1.1	.2							11.4	7.3
W	3.1	2.1	1.7	.2								6.4	4.3
WNW	1.2	.2	.1									1.6	2.7
NW	.3	.2										.6	3.2
NNW	.2											.2	1.0
VARBL			1.2	.6	.1							1.7	9.9
CALM												65.0	
	23.1	9.1	9.7	2.8	.3							100.7	1.9

TOTAL NUMBER OF OBSERVATIONS      900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

105140  
STATIONRAMSTEIN AB GERMANY  
STATION NAME74-83  
YEARSSEP  
MONTHALL WEATHER  
CLASS0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.2	.1									1.3	2.9
NNE	1.0	.7										1.7	2.9
NE	1.2	.6										1.8	3.0
ENE	2.4	2.0	.2									4.7	3.5
E	3.6	1.6	.4									5.6	3.2
ESE	.9	.3		.1								1.2	3.6
SE	.2											.2	2.5
SSE	.1	.1										.2	3.5
S	.4	.2	.2									.9	4.4
SSW	.4	.4	.5	.1								1.6	6.0
SW	1.0	2.1	2.0	1.7								6.8	7.6
WSW	1.9	4.2	6.3	2.7								15.0	7.7
W	4.3	4.0	4.8	.8	.1							14.0	5.7
WNW	1.1	.9	.3									2.3	4.3
NW													
NNW	.1											.1	1.0
VARBL		.2	3.4	.9	.1							4.7	9.4
CALM												33.0	
	19.6	17.6	18.4	6.2	.2							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-93 YEARS      SEP MONTH  
1200-1400 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.8	.1									1.7	3.7
NNE	1.7	1.9										3.6	3.6
NE	1.4	1.7	.3									3.4	4.3
ENE	2.0	2.3	.9									5.1	4.2
E	2.3	3.2	1.1	.1								6.8	4.7
ESE	1.2	.6	.3	.2								2.3	4.8
SE	.2	.1										.3	3.0
SSE	.3	.1	.4									.9	5.1
S	1.2	1.2	.2									2.7	3.8
SSW	.4	1.9	1.1	.1								3.6	6.2
SW	1.3	2.9	3.9	2.1	.1							10.3	7.9
WSW	2.1	3.4	7.0	4.4	.9							17.9	8.8
W	3.3	4.2	8.0	2.0	.1							17.7	7.0
WNW	1.4	1.4	.4	.1								3.4	4.1
NW	.3	.9										1.1	4.0
NNW	.2	.5	.1									.9	4.3
VARBL		.2	7.0	2.6								9.8	9.4
CALM												6.6	
	20.4	27.3	30.9	11.7	1.1							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/4AC

## SURFACE WINDS

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

106140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1800-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	.4										2.0	2.6
NNE	1.0	1.4	.2									2.7	4.0
NE	.9	1.8	.3									3.0	4.6
ENE	2.0	2.7	1.3									5.0	4.8
E	1.3	2.6	1.1	.1								5.1	5.2
ESE	.6	1.1	.4	.2								2.3	5.6
SE	.5	.4	.2	.1								1.3	5.1
SSE	1.1	.3										1.4	3.0
S	1.3	1.7	.3									3.3	4.0
SSW	1.7	2.0	1.6	.3								5.8	5.9
SW	1.1	2.3	3.7	1.4	.2							8.8	7.9
WSW	2.8	4.9	7.4	3.1	.4	.1						18.8	7.7
W	2.9	5.6	9.1	3.1								19.6	7.4
WNW	1.1	1.7	.9	.2								3.9	5.5
NW	.3	.7	.3									1.3	4.9
NNW	1.0	.4										1.4	2.7
VARBL		.3	5.6	2.4								9.3	9.4
CALM												3.7	
	21.1	30.3	32.9	11.1	.7	.1						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

900



2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

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

## SURFACE WINDS

175143 STATION RAMSTEIN AB GERMANY 74-83 YEARS SEP MONTH  
 ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	.2										2.1	2.2
NNE	1.7	.4										1.4	2.6
NE	1.8	1.2										3.0	3.0
ENE	3.4	1.4	.3									5.2	3.2
E	3.4	1.9	.2									5.6	3.2
ESE	1.1	1.1	.3									2.6	4.0
SE	.6	.6										1.1	3.4
SSE	.4	.2										.7	2.8
S	1.6	1.0										2.6	3.2
SSW	2.2	2.1	.8	.1								5.2	4.4
SW	2.2	3.0	2.4	.2								7.9	5.6
WSW	2.6	4.9	5.4	1.3								14.2	6.4
W	3.9	4.7	4.4	1.8	.1							14.9	6.4
WNW	2.4	1.1	.9									4.4	3.7
NW	.8	.2										1.0	2.8
NNW	.3	.2										.6	3.2
VARBL			2.5	.9								3.4	9.1
CALM												24.1	
	29.7	24.3	17.4	4.3	.1							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 105140      RAMSTEIN AB GERMANY      YEARS: 74-83      MONTH: SEP

CLASS: ALL WEATHER      HOURS (LST): 2100-2300

CONDITION:

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.1										.4	2.5
NNE	.5	.3										.7	3.0
NE	1.4	.3										1.8	2.4
ENE	1.4	.4										1.9	2.8
E	2.1	.7	.1									2.9	2.7
ESE	.4											.4	1.8
SE		.1										.1	4.0
SSE	.3											.3	2.0
S	.4	.7	.3									1.4	4.5
SSW	.2	1.3	.2	.2								2.0	5.7
SW	1.0	1.8	1.3	.9	.2							5.1	7.1
WSW	2.1	3.0	2.9	.6								8.6	5.8
W	2.9	2.2	2.7	.9								8.6	5.8
WNW	1.3	.2	.2									1.8	2.9
NW	.7											.7	1.3
NNW		.1										.1	4.0
VARBL			1.0	.7	.1							1.8	11.0
CALM												61.2	
	15.3	11.3	8.8	3.0	.3							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

176143  
STATIONRAMSTEIN AB GERMANY  
STATION NAME74-83  
YEARSSEP  
MONTHALL WEATHER  
CLASSALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.3	.0									1.1	2.7
NNE	.8	.5	.0									1.4	3.3
NNE	1.1	.8	.1									2.0	3.4
ENE	1.8	1.2	.3									3.3	3.7
E	2.1	1.4	.4	.0								3.9	3.7
ESE	.7	.4	.1	.1								1.3	4.1
SE	.3	.2	.0	.0								.5	3.8
SSE	.3	.1	.1									.4	3.4
S	.7	.7	.2									1.5	3.9
SSW	.8	1.2	.7	.1								2.8	5.4
SW	1.1	2.2	2.2	1.1	.1							6.5	7.2
WSW	2.1	3.8	5.2	2.0	.2	.0						13.3	7.3
W	3.3	3.5	4.1	1.2	.0							12.1	6.2
WNW	1.3	.7	.4	.0								2.4	3.9
NW	.7	.3	.0									.6	3.5
NNW	.3	.2	.0									.5	3.1
VARBL		.1	2.9	1.1	.1							4.2	9.7
CALM												41.9	
	17.8	17.5	16.7	5.7	.4	.0						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS:

7199

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

175143 RAMSTEIN AB GERMANY  
STATION STATION NAME

74-83

YEARS

OCT

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1										.4	2.5
NNE	.5	.2										.8	2.4
NE	1.1	.9										1.9	2.8
ENE	2.7	1.7	.4									4.8	3.5
E	1.2	.9	.4									2.5	4.2
ESE	.8	.1										.9	2.4
SE	.2											.2	2.5
SSE	.1											.1	3.0
S	.3	.2										.5	3.6
SSW	.4	.8	.5	.5								2.4	7.2
SW	.3	.5	1.3	.2								2.4	7.6
WSW	1.7	4.0	4.1	2.4	.1							12.3	7.4
W	3.1	4.0	3.7	.6	.1							11.5	6.1
WNW	1.3	.2										1.5	2.3
NW	.8											.8	1.6
NNW	.2											.2	2.5
VARBL		.1	1.0	.2								1.3	8.5
CALM												55.5	
	15.1	13.7	11.5	4.0	.2							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

929

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105100 STATION      RAMSTEIN AB GERMANY STATION NAME      74-93 YEARS      OCT MONTH  
 ALL WEATHER CLASS      0300-0500 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.2										.2	5.0
NNE	.6	.2										.9	2.5
NE	1.1	.5										1.6	2.8
ENE	3.3	1.7	.4									5.5	3.4
E	2.2	1.0	.2	.1								3.4	3.6
ESE	.4	.2										.6	3.7
SE	.2											.2	2.0
SSE	.1											.1	3.0
S	.3	.2										.5	3.4
SSW	1.0	.2	.1	.6								1.9	7.1
SW	.8	.5	1.4	1.0								3.7	8.1
WSW	1.5	3.8	5.2	1.7	.1							12.3	7.3
W	3.9	3.7	3.3	1.4								12.3	5.9
WNW	.3	.3										.6	3.3
NW	.3											.3	1.7
NNW	.3	.1										.4	2.3
VARBL			1.5	.3								1.9	9.2
CALM												53.4	
	16.3	12.7	12.3	5.2	.1							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

176140 RAMSTEIN AB GERMANY

74-83

OCT

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0600-0800

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.1										.6	2.8
NNE	1.1	.1										1.2	2.1
NE	1.7	.4										2.2	2.5
ENE	2.3	2.4	.3									4.9	3.7
E	2.9	.6	.2									3.8	2.9
ESE	.5	.2										.3	2.9
SE	.6											.6	2.0
SSE	.3		.1									.4	3.3
S	.3		.1									.4	3.5
SSW	.2	.5	.5	.2								1.6	7.6
SW	.6	1.6	1.7	1.7	.2							4.4	7.6
WSW	1.5	2.6	4.8	2.0	.1							11.1	7.7
W	3.7	3.3	3.3	1.5	.1							11.6	6.0
WNW	1.7	.4	.2									1.6	3.3
NW	.5											.5	1.4
NNW													
VARBL			1.9	1.0								2.8	9.8
CALM												51.5	
	17.7	12.4	12.3	5.7	.4							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 105143 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH OCT  
 CLASS ALL WEATHER HOURS (L & T) 0000-1100  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.3										1.0	3.3
NNE	1.3											1.3	1.6
NE	1.0	1.8										3.8	3.1
ENE	2.7	2.8	.4									5.1	3.6
E	3.7	3.1	.2									6.3	3.6
ESE	1.4	.2	.1									1.7	2.4
SE	.3											.3	2.0
SSE	.4											.4	2.0
S	.4	.3	.1									.9	4.0
SSW	.6	1.1	.9	.2	.1							2.9	6.4
SW	1.2	1.7	1.5	1.1	.1							5.6	7.3
WSW	1.9	3.8	5.3	3.0	.1							14.0	8.0
W	4.5	3.9	3.5	1.0	.3	.1						13.3	5.9
WNW	1.1	.4	.2									1.7	3.5
NW	.1	.3										.4	4.6
NNW	.3											.3	2.0
VARBL			3.2	.8	.4							4.4	10.7
CALM												35.5	
	22.0	17.8	15.5	6.0	1.1	.1						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

**SURFACE WINDS**

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

175140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      OCT MONTH  
 ALL WEATHER CLASS      1000-1400 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.4										2.2	2.3
NNE	1.3	.9	.1									2.7	2.9
NE	2.7	2.4										5.1	3.4
ENE	2.3	3.7	1.1									7.5	4.3
E	2.3	2.5	1.4	.1								6.3	5.0
ESE	.8	.6										1.4	3.4
SE	.4	.7										.6	3.2
SSE	.3											.3	1.7
S	.4	1.0	.1									1.5	4.5
SSW	.5	1.7	1.4	.2								4.0	6.3
SW	1.0	2.5	2.7	1.4	.3	.1						8.0	8.0
WSW	1.5	3.9	4.9	4.1	.2							14.7	8.2
W	3.7	4.8	5.1	2.6	.2							16.3	6.9
WNW	1.8	1.5	.4		.1							3.9	4.3
NW	.8	.8	.1									1.6	3.5
NNW	.9	.1	.1									1.1	3.1
VARBL		.1	4.7	2.0	.5	.1						6.3	10.5
CALM												16.0	
	23.5	27.0	21.4	10.4	1.4	.2						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 930



2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION      RAM TEIN AB GERMANY STATION NAME      74-83 YEARS      OCT MONTH  
 ALL WEATHER CLASS      1500-1700 HOURS (L & T)  
 CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.8	2.8
NNE	1.6	1.4										3.0	3.1
NE	3.3	2.9	.4									6.7	3.8
ENE	2.5	3.1	1.9	.1								7.6	4.9
E	1.1	3.2	1.5	.1								6.0	5.6
ESE	.5	.2	.1									.9	3.1
SE	.7	.2										.4	3.3
SSE	.5	.5	.2									1.3	4.0
S	.6	1.0	.1									1.7	3.8
SSW	1.6	2.2	1.0									4.7	4.8
SW	1.3	1.8	4.3	1.5	.3							9.2	6.0
WSW	2.6	3.4	5.7	2.8	.3							15.8	7.7
W	2.7	5.1	4.4	3.4	.3							16.1	7.5
WNW	.9	1.5	.2		.1							2.7	4.8
NW	1.7	.4	.2									1.6	3.5
NNW	.7	.1										1.0	2.4
VABL			4.7	.8	.3							5.4	9.7
CALM												12.0	
	23.3	28.1	25.5	8.7	1.4							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      OCT MONTH  
 ALL WEATHER CLASS      1900-2000 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.1										.8	2.1
NNE	1.5	.1										1.6	2.1
NE	3.7	1.7										5.4	2.9
ENE	3.5	2.6	.3									6.5	3.5
E	2.5	2.2	1.7									5.7	4.2
ESE	1.5	.3										1.6	2.4
SE	.7											.3	2.0
SSE	.3	.2										.5	2.6
S	1.7	.6										2.4	2.6
SSW	1.1	1.8	.9	.1								3.9	5.3
SW	1.9	2.8	2.7	.9	.1							7.7	6.3
WSW	2.9	4.4	4.9	1.4	.1							13.5	6.7
W	2.7	3.2	3.2	1.4	.1							10.6	6.3
WNW	1.3	.5										1.8	2.8
NW	.5											.5	1.8
NNW	.3	.1										.4	2.3
VARBL			1.1	.4								1.5	9.5
CALM												34.9	
	25.5	22.8	13.3	4.2	.3							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 175140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH OCT  
 CLASS ALL WEATHER HOURS (L.S.T.) 2100-2300  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4											.4	1.8
NNE	.2											.2	1.0
NE	1.4	.6										2.0	2.9
ENE	3.5	1.7	.3									5.6	3.3
E	1.3	1.1	.4									2.8	4.2
ESE	1.1	.1										1.2	2.1
SE	.3											.3	2.0
SSE	.4											.4	2.5
S	.2	.4										.6	4.0
SSW	.2	1.2	.5	.2								2.3	6.1
SW	.5	1.7	2.3	.4	.1							5.1	7.2
WSW	1.2	3.5	4.4	1.2								10.3	7.3
W	4.5	3.5	2.9	.9								11.7	5.2
WNW	2.7	.2										2.9	2.2
NW	.4											.4	2.0
NNW	.1											.1	3.0
VARBL			.9	.2								1.1	8.5
CALM												52.5	
	13.6	14.2	11.8	2.8	.1							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.3										1.0	2.6
NNE	1.1	.3	.7									1.5	2.5
NE	2.1	1.4	.1									3.6	3.2
ENE	2.9	2.5	.7	.0								6.1	3.8
E	2.1	1.8	.7	.0								4.6	4.3
ESE	.9	.3	.7									1.2	2.7
SE	.3	.1										.4	2.4
SSE	.3	.1	.7									.5	3.0
S	.6	.5	.1									1.1	3.6
SSW	.7	1.2	.8	.3	.0							3.0	6.1
SW	1.7	1.7	2.1	.9	.1	.0						5.8	7.5
WSW	1.8	3.7	5.7	2.3	.1	.0						13.0	7.6
W	3.6	3.9	3.6	1.6	.1	.0						12.9	6.3
WNW	1.3	.6	.1		.0							2.1	3.4
NW	.6	.2	.7									.8	2.8
NNW	.4	.1	.7									.4	2.6
VARBL		.0	2.2	.7	.2	.0						3.1	9.9
CALM												39.1	
	22.4	18.6	15.4	5.9	.6	.0						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 7439

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

105140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

3000-3200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.1										.3	2.7
NNE	.4	.3										.8	3.6
NE	1.3	.8										2.1	3.2
ENE	3.1	1.6	.6	.1								5.3	3.6
E	1.8	1.1	.6	.1								3.6	4.3
ESE	.4	.2										.7	3.0
SE	.3	.2										1.0	2.9
SSE	.4											.4	2.0
S	.4	.2										.7	3.3
SSW	.4	1.0	.6	.4	.1							2.6	7.4
SW	.4	1.4	2.3	1.3	.3	.3						6.2	9.4
WSW	2.0	4.4	6.2	3.6	1.1	.1						17.4	8.5
W	3.5	4.1	4.1	1.1	.2	.1	.1					13.3	6.5
WNW	2.0	.2	.1									2.3	2.6
NW	.4											.4	1.8
NNW	.1	.2										.3	3.7
VARBL			2.6	1.8	.3	.4	.1					5.2	12.3
CALM												37.2	
	19.0	16.0	17.0	8.4	2.1	1.0	.2					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

**SURFACE WINDS**

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

106140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      NOV MONTH

ALL WEATHER CLASS

0700-2500 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.2										.7	3.2
NNE	.3	.7										1.0	3.6
NE	.8	.4	.3									1.6	4.1
ENE	2.9	1.7	.9	.3								5.8	4.4
E	2.0	1.0	.1									3.1	3.3
ESE	.4	.1										.6	2.8
SE	.2											.2	1.5
SSE	.4	.1										.6	2.0
S	.2	.3	.2	.1								.9	5.9
SSW	.3	1.1	.8	.6								2.8	7.4
SW	1.5	1.9	2.3	1.1	.4	.1						7.4	7.9
WSW	2.2	4.4	4.9	3.3	1.2	.2						16.3	8.7
W	3.1	4.4	3.1	2.2	.6		.2					13.7	7.4
WNW	.7	.1										.8	2.3
NW	.3	.2										.6	3.0
NNW	.1											.1	2.0
VARBL			2.4	1.0	.3							3.8	11.1
CALM												40.2	
	16.1	16.8	15.1	8.7	2.6	.3	.2					100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      NOV MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5											.6	2.2
NNE	1.1	.6										1.7	3.1
NE	1.4	.4	.3									2.2	3.7
ENE	1.3	2.3	1.1									4.8	4.7
E	1.6	.7	.9									3.1	4.3
ESE	.8	.1										.9	2.3
SE	.1		.1									.2	5.5
SSE	.3	.1										.4	2.8
S	.1	.8		.1								1.0	5.2
SSW	.8	.7	.9	.9								3.2	7.7
SW	1.7	2.7	2.1	1.1	.2	.3						7.4	8.2
WSW	1.7	4.3	5.4	2.7	.9	.1						15.1	8.4
W	3.1	3.6	3.6	2.1	.1	.4						12.9	7.6
WNW	1.3	.6		.1								2.0	3.3
NW	.2	.1										.3	2.0
NNW	.4	.2										.7	2.8
VARBL			2.1	1.1	.3							3.6	11.5
CALM												39.9	
	15.9	17.1	16.6	8.1	1.6	.9						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.1										1.2	2.3
NNE	1.1	.4										1.6	2.7
NE	1.2	1.0	.1									2.3	3.4
ENE	2.5	1.9	1.8	.2								6.4	4.9
E	2.2	.7	.8									3.7	3.8
ESE	1.3	.1										1.4	2.2
SE	.4	.1										.6	2.0
SSE	.6	.2										.8	3.1
S	.6	.4	.2	.1								1.3	5.0
SSW	.8	.6	2.2	.4	.1							4.1	7.5
SW	.7	2.3	4.2	1.2	.2	.1						8.8	8.2
WSW	1.8	5.0	7.7	3.4	1.2	.4						19.9	8.8
W	2.9	3.1	2.5	1.1	.2	.2						10.1	6.6
WNW	.4	.2	.3									1.0	4.6
NW	.1	.1										.2	3.0
NNW	.4											.4	1.8
VARBL		.1	2.9	1.6	.3	.1						5.0	10.8
CALM												31.1	
	19.2	17.4	22.1	8.1	2.1	.9						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 930



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

136143  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-93  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.2										1.3	2.5
NNE	2.8	1.4										4.2	3.0
NE	1.6	1.4	.1									3.1	3.9
ENE	1.7	2.2	1.3	.6								5.8	5.5
E	1.6	1.0	1.2									3.8	4.7
ESE	.7	.1	.2									1.0	3.3
SE	.6	.2	.2									1.0	3.9
SSE	.4	.3										.8	3.0
S	.8	.3	.3									1.4	3.7
SSW	.9	1.2	2.3	1.6								5.6	8.2
SW	1.0	3.4	4.4	1.8	.1							10.8	7.7
WSW	1.2	4.4	9.1	4.2	1.0	.6	.2					19.8	9.6
W	1.9	4.0	5.3	2.0	.3	.1	.1					13.8	7.9
WNW	.9	.8	.3									1.9	3.9
NW	.6	.2	.1									.9	3.3
NNW	.3	.4	.1									.9	4.1
VARBL			5.6	2.2	.4	.2						8.4	10.6
CALM												15.6	
	17.7	21.9	29.4	12.3	1.9	.9	.3					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106143 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      NOV MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	.7										2.4	3.1
NNE	2.0	.8	.2									3.0	3.1
NE	2.6	2.8	.1									5.4	3.6
ENE	2.2	2.7	1.4	.4								6.8	5.4
E	1.2	1.6	1.4	.1								4.3	5.5
ESE	.8	.1	.1									1.0	3.2
SE	.2	.1	.1									.3	3.3
SSE		.1										.1	4.0
S	.3	.7	.6									1.6	6.2
SSW	.8	1.9	1.3	1.2								5.2	7.1
SW	1.3	4.1	5.3	1.8	.2							12.8	7.7
WSW	2.3	4.9	8.2	3.0	.7	.2						19.3	8.1
W	2.2	4.3	4.1	3.6	.8							15.0	8.1
WNW	1.4	1.1	.4									3.0	4.0
NW	.6	.2	.1									.9	3.8
NNW	.2	.1										.3	2.7
VARBL		.1	0.9	1.6	.6	.1						7.1	10.5
CALM												11.3	
	20.0	26.1	28.3	11.7	2.2	.3						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATE DIV BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

# SURFACE WINDS

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

175143 STATION RAMSTEIN AB GERMANY 74-83 YEARS NOV MONTH  
 1800-2000 HOURS (LST)  
 ALL WEATHER CLASS  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.4										1.8	2.6
NNE	1.4	.2										1.7	2.2
NE	2.3	1.0	.2									3.6	3.1
ENE	3.3	2.4	.6	.3								5.7	4.2
E	1.6	1.2	.2	.1								3.1	4.1
ESE	.9	.2										1.0	2.9
SE	.1	.2										.3	3.7
SSE	.2	.2	.1									.6	4.4
S	1.1	.3	.3									1.8	3.7
SSW	.8	1.0	1.0	.6	.1							3.4	7.3
SW	2.0	3.2	3.4	1.3	.1	.1						10.2	7.1
WSW	2.9	5.1	5.2	3.2	.6	.1						17.1	7.7
W	2.4	3.9	1.8	1.4	.4	.1						10.1	6.9
WNW	.4	.8	.1	.1								1.4	4.7
NW	.3	.1										.4	3.0
NNW	.2	.4										.7	4.0
VARBL	.1	.2	4.1	1.3	.3	.1						6.2	10.0
CALM												29.9	
	21.4	21.1	17.1	8.4	1.6	.4						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/440

# SURFACE WINDS

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

STATION 105140 STATION NAME RAMSTEIN AB GERMANY YEARS 79-83 MONTH NOV  
 CLASS ALL WEATHER HOURS (LST) 2100-2300  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.9	.6										1.3	2.9
NNE	.9	.9										1.8	3.2
NE	1.3	1.3										3.1	3.0
ENE	2.3	1.9	.4	.4								5.0	4.5
E	1.5	1.7	.5	.2								4.0	4.6
ESE	.6	.4										1.0	2.9
SE	.7											.7	1.8
SSE	.7	.3										.6	3.8
S	.4	.2	.3	.1								1.1	5.3
SSW	.7	1.1	1.7	.4	.2							3.1	8.3
SW	.3	2.6	3.0	1.7	.3	.3						8.2	9.0
WSW	1.9	5.0	5.2	3.6	.1	.3						15.8	7.7
W	3.0	3.1	3.7	1.4	.4	.1						11.6	7.0
WNW	.8	.6	.1									1.4	3.3
NW	.2	.1	.2									.6	4.6
NNW	.3	.1										.4	2.8
VARBL	.1	.1	2.3	2.1	.2	.4						5.3	12.0
CALM												34.8	
	16.2	19.9	15.9	10.0	1.3	.9						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 106140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH NOV  
 CLASS ALL WEATHER HOUR (LST) ALL  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.3										1.2	2.7
NNE	1.3	.7	.7									2.0	3.0
NE	1.6	1.2	.2									2.9	3.5
ENE	2.4	2.1	1.7	.3								5.8	4.7
E	1.7	1.1	.7	.1								3.6	4.4
ESE	.7	.2	.0									.9	2.8
SE	.4	.1	.1									.5	3.0
SSE	.3	.2	.0									.5	3.1
S	.5	.4	.2	.1								1.2	4.8
SSW	.6	1.1	1.2	.9	.1							3.7	7.6
SW	1.3	2.7	3.4	1.4	.2	.2						9.0	8.1
WSW	2.0	4.8	5.3	3.4	.8	.2	.0					17.6	8.5
W	2.8	3.8	3.5	1.9	.4	.1	.1					12.6	7.3
WNW	1.0	.5	.2	.0								1.7	3.6
NW	.3	.1	.1									.5	3.2
NNW	.3	.2	.0									.5	3.2
VARBL	.7	.1	3.3	1.6	.4	.2	.0					5.6	11.0
CALM												30.0	
	17.9	19.5	23.3	9.5	1.9	.7	.1					100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 7200

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 125147 STATION NAME: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: DEC  
 CLASS: ALL WEATHER HOURS (LST): 0000-2300  
 CONDITION: \_\_\_\_\_

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		.2										.5	4.0
NNE	.5	.5										1.2	3.2
NE	1.5	.8	.1									1.8	3.7
ENE	1.9	2.9	1.2	.1								6.1	4.7
E	1.6	1.7	1.3	.1								3.7	4.7
ESE	1.4	.1	.1									1.2	2.6
SE	.2											.2	2.0
SSE	.2	.1	.1									.4	4.0
S	.1		.1	.2	.2							.6	12.7
SSW	.3	.9	1.7	.4	.3							2.9	8.9
SW	.7	1.4	2.5	2.7	.8	.1						5.3	9.7
WSW	1.9	3.8	7.6	4.6	.8	.2						18.9	8.8
W	2.5	3.3	4.1	3.3	.3							13.5	7.9
WNW	.7	.2	.3	.1								1.5	4.3
NW	.3	.2										.5	3.0
NNW	.8	.1										.5	2.0
VARBL		.1	1.4	1.1	.6							3.2	12.7
CALM												35.4	
	13.9	15.6	19.5	12.7	2.7	.3						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

175140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      DEC MONTH  
ALL WEATHER CLASS      0300-0500 HOURS (LST)

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.1	.1									.6	3.2
NNE	.3	.2										.5	3.2
NE	1.1	1.1	.1									2.3	3.7
ENE	2.2	2.5	1.4	.2								6.2	4.9
E	2.4	2.2	.9									5.4	4.4
ESE	1.1	.3										1.4	2.8
SE	.5											.5	2.5
SSE	.7	.1										.3	3.3
S	.2	.3	.1		.1							.8	6.6
SSW	.4	.3	1.7	.6	.1							2.9	8.4
SW	.5	1.9	2.2	1.9	.5	.3						7.6	9.9
WSW	2.3	3.9	7.7	4.7	.9	.3						16.3	8.9
W	1.4	4.2	4.5	2.9	.3	.2						13.7	8.2
WNW	1.3	.8	.4									2.5	3.8
NW	.4	.3										.8	3.6
NNW	.1	.2										.3	4.3
VARBL			1.5	.9	.9	.2						3.5	13.3
CALM												32.3	
	15.1	13.8	19.4	10.5	2.9	1.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105147      RANSTEIN AB GERMANY      74-83      DEC  
STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      0600-0800  
CLASS      HOURS (LST)

CONDITION

SPEED KNTS: D-R	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	.2	.1									1.1	3.3
NNE	.3	.2										.5	2.6
NE	.0	.8	.4									1.2	4.2
ENE	2.5	3.5	1.7									7.1	4.3
E	1.5	2.2	.3									4.1	3.9
ESE	.3	.8										.8	3.4
SE	.7	.2										.5	3.8
SSE	.2	.1	.1									.4	4.5
S		.2	.2									.4	6.8
SSW	.5	.8	.9	.5	.3							3.0	6.8
SW	.5	2.3	3.8	1.5	.9		.1					8.7	9.2
WSW	1.3	3.8	7.3	3.2	1.3	.3						16.9	9.4
W	3.1	4.3	4.3	3.0	.8	.1						14.9	7.5
WNW	.6	.6	.1									1.4	3.7
NW	.2	.1										.3	3.3
NNW	.7	.3	.1									.8	4.4
VARBL			1.9	1.9	1.3	.2						5.3	13.9
CALM												31.7	
	13.7	19.7	19.9	10.2	4.2	.5	.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS      933



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

175140 STATION RAMSTEIN AB GERMANY 74-83 YEARS DEC MONTH  
 ALL WEATHER CLASS 0900-1100 HOURS (LST)  
 CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.3										1.0	2.9
NNE	.4	.5	.1									1.1	3.9
NE	1.0	1.2										2.2	3.6
ENE	2.3	2.7	1.7									5.7	4.8
E	1.9	2.4	.9	.1								5.3	4.5
ESE	.6	.2										.9	2.6
SE	.4	.2										.6	3.2
SSE	.2	.1										.3	3.0
S	.1	.2	.5	.1								1.0	7.6
SSW	.5	1.0	.9	.6								3.0	7.6
SW	1.3	2.6	2.7	2.5	1.0	.1	.2					10.3	9.7
WSW	1.4	5.6	7.5	4.5	.9	.3	.1					21.5	9.0
W	2.5	4.6	3.1	2.8	.5	.1						13.8	7.7
WNW	.4	.4										.9	3.3
NW	.2	.1										.3	3.3
NNW	.2											.2	2.0
VARBL		.1	1.9	1.6	.4	.1						4.2	11.7
CALM												26.9	
	14.2	23.2	19.5	12.4	2.9	.5	.3					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 125147 RAMSTEIN AB GERMANY STATION NAME: 74-93 YEARS: DEC MONTH: 1900-1900 HOURS (LST):  
 CLASS: ALL WEATHER  
 CONDITION:

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	.2	.1									1.1	3.3
NNE	.9											.9	1.8
NE	1.7	1.4										3.1	3.4
ENE	1.1	3.8	2.6	.1								7.5	5.7
E	1.3	1.5	2.3	.6								5.2	6.1
ESE	.5	.3										.9	2.6
SE	.7	.1	.1	.1								.6	5.0
SSE	.7											.3	1.0
S	.5	.5	.5	.3								2.0	6.1
SSW	.7	1.1	.9	1.0	.2							3.2	8.9
SW	1.3	1.5	3.5	2.9	.1		.2					9.5	9.0
WSW	1.5	4.4	9.5	5.8	1.9	.1	.1					22.5	9.7
W	2.2	5.5	4.9	3.4	.3	.1						16.5	7.8
WNW	.4	.2										.5	3.3
NW	.3	.2										.5	3.4
NNW	.4	.2										.6	3.5
VARBL			3.4	2.4	1.2	.2						7.2	12.3
CALM												15.5	
	14.5	21.1	26.8	15.6	3.8	.4	.3					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

105140 STATION      RAMSTEIN AB GERMANY STATION NAME      74-83 YEARS      DEC MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.1										2.5	3.1
NNE	1.3	.5	.1									1.9	3.2
NE	2.4	1.8	.3									4.5	3.6
ENE	3.2	5.2	1.9	.1								10.4	4.8
E	1.0	2.0	1.5	.2								4.8	5.6
ESE	.2	.2										.4	3.8
SE	.2											.2	1.5
SSE	.2	.1										.3	3.0
S	.4	.4		.3								1.2	6.4
SSW	1.1	1.6	.2	1.3								4.2	7.2
SW	1.7	2.3	3.1	2.6	.3	.1	.1					10.2	8.4
WSW	1.9	5.5	7.7	5.8	.9	.2						22.0	9.0
W	1.9	2.8	5.5	4.0	.6	.1						15.1	8.9
WNW	1.2	.4	.1									1.7	3.2
NW	.3	.6										1.0	4.0
NNW	.1	.1										.2	3.5
VARBL			3.0	1.4	.6	.4						5.5	12.3
CALM												13.8	
	19.6	24.7	23.9	15.7	2.5	.9	.1					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

105140

RAMSTEIN AB GERMANY

74-83

DEC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1800-2000

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.2										.5	2.6
NNE	1.3	.4										1.7	2.9
NE	2.2	1.7	.1									4.0	3.4
ENE	3.2	3.0	1.4									7.6	4.3
E	1.4	2.5	.8									4.6	4.5
ESE	.5	.1										.6	2.8
SE	.1											.1	2.0
SSE				.1								.1	13.0
S	.2	.2	.3	.4								1.2	8.9
SSW	1.2	.9	1.3	1.3	.1							4.7	7.8
SW	1.1	1.1	2.5	1.7	.2							6.7	8.7
WSW	1.7	4.7	8.2	4.4	1.0	.2						20.2	8.7
W	3.0	3.2	4.0	2.4	.8							13.3	7.7
WNW	.6	.2	.2	.1								1.2	4.2
NW	.5	.1										.6	2.5
NNW	.1		.1									.2	5.0
VARBL		.1	2.5	1.6	.3	.1	.1					4.7	11.4
CALM												27.7	
	17.5	19.5	21.4	12.0	2.4	.1	.1					100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

136143  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3											.3	2.0
NNE	.8	.9										1.6	3.2
NE	1.2	1.7	.1									2.3	3.6
ENE	2.2	2.6	.9									5.5	4.4
E	1.3	1.8	.5									4.2	4.0
ESE	.5	.3		.1								1.1	3.6
SE	.2	.2										.4	3.3
SSE	.2											.2	2.5
S	.2		.4	.2	.3	.1						1.3	12.6
SSW	.2	.5	.8	.2	.1							1.9	8.4
SW	1.2	2.0	2.9	2.2	.3							8.6	8.2
WSW	1.6	4.0	9.7	4.6	.9	.1						20.2	9.0
W	2.6	2.9	3.7	2.4	.4							11.3	7.7
WNW	.9	.5	.3									1.7	3.8
NW	.1	.1										.2	4.0
NNW	.1	.3	.1									.5	5.0
VARBL			2.5	2.2	.4	.1						5.2	12.0
CALM												33.4	
	14.2	17.3	27.4	11.8	2.5	.3						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

106140 STATION RAMSTEIN AB GERMANY STATION NAME 74-83 YEARS DEC MONTH  
 ALL WEATHER CLASS ALL HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.3	.3									.9	3.1
NNE	.7	.4	.3									1.2	3.0
NE	1.4	1.2	.1									2.8	3.6
ENE	2.3	3.3	1.5	.1								7.2	4.8
E	1.7	1.9	1.0	.1								4.8	4.8
ESE	.6	.3	.3	.0								.9	3.0
SE	.3	.1	.3	.3								.4	3.3
SSE	.2	.1	.3	.0								.3	3.6
S	.2	.2	.3	.2	.1	.3						1.1	8.3
SSW	.6	.9	.9	.8	.1	.3						3.2	8.2
SW	1.1	1.9	2.9	2.2	.5	.1	.1					8.7	9.1
WSW	1.7	4.5	7.9	4.6	1.3	.2	.0					20.1	9.1
W	2.4	3.9	4.2	3.0	.5	.1						14.0	7.9
WNW	.8	.4	.2	.0								1.4	3.7
NW	.3	.2										.5	3.4
NNW	.2	.2	.3									.4	3.8
VARBL		.0	2.3	1.6	.7	.2	.0					4.9	12.4
CALM												27.2	
	15.2	19.9	21.3	12.7	3.0	.5	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 7400

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 106140 STATION NAME RAMSTEIN AB GERMANY YEARS 74-83 MONTH ALL  
 CLASS ALL WEATHER HOURS (L.S.T.) ALL  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.7	.1	.0								1.8	3.4
NNE	1.2	.9	.1									2.2	3.4
NE	1.7	1.7	.3	.0								3.7	3.9
ENE	2.1	2.7	1.2	.2	.0							6.3	4.9
E	1.8	1.4	.9	.2	.0							4.2	4.8
ESE	.5	.3	.1	.0	.0							1.0	3.6
SE	.3	.1	.0	.0								.4	3.2
SSE	.3	.1	.1	.0	.0							.5	3.7
S	.5	.4	.2	.0	.0	.0						1.1	4.5
SSW	.7	1.0	.7	.3	.0	.0						2.6	6.1
SW	.9	2.0	2.2	1.2	.2	.1	.0					6.6	7.9
WSW	1.9	3.8	5.0	2.7	.4	.1	.0					13.9	8.0
W	2.9	3.7	3.7	1.7	.2	.0	.0					12.2	6.8
WNW	1.1	.8	.3	.1	.0							2.2	4.1
NW	.4	.3	.1	.0	.0							.8	3.6
NNW	.4	.3	.0	.0								.8	3.6
VARBL	.0	.1	3.8	1.4	.2	.0	.0					5.6	10.0
CALM												34.3	
	17.8	22.1	18.5	7.9	1.1	.2	.0					100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 87633

2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## SURFACE WINDS

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

136140  
STATION

RAMSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

ALL  
MONTH

## INSTRUMENT

CLASS

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

CONDITION

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

ALL  
HOURS (L & T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.3	.0									1.0	3.0
NNE	1.1	.6	.0									1.7	3.0
NE	2.1	1.8	.2									4.1	3.5
ENE	3.3	3.2	1.0	.1	.0							7.7	4.3
E	2.0	1.7	.4	.1								4.1	4.0
ESE	.6	.2	.0									.9	2.7
SE	.3	.1	.0	.0								.4	3.2
SSE	.2	.1	.0	.0								.3	3.2
S	.3	.1	.1	.0	.0	.0						.6	6.1
SSW	.5	.4	.4	.3	.1							1.7	7.0
SW	.9	1.8	2.5	1.3	.1	.0						6.8	7.9
WSW	1.9	4.4	6.1	3.8	.4	.1						16.6	8.2
W	3.0	3.5	3.2	1.1	.7	.0						11.0	6.2
WNW	.8	.3	.1	.0								1.3	3.4
NW	.3	.1	.0									.3	2.7
NNW	.2	.0	.0									.3	2.9
VARBL	.0	.0	1.4	.7	.2	.1						2.3	10.8
CALM												38.9	
	19.4	15.6	15.5	7.5	.9	.2						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 15618



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

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

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

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

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

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

(Continued on Reverse Side)

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100					95.4											
≥ 0						96.9				98.3						100.0

EXAMPLE # 1 Head ceiling values independently of visibility under column at right headed  $\geq 0$ .  
 For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
 Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Head visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
 Visibility  $\geq 3$  miles = 95.4%.  
 Visibility  $\geq 2$  miles = 96.9%.  
 Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

**EXAMPLE # 4** Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

**EXAMPLE # 5** To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JAN HOURS(IST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	160	90	80	60	40	40	40	37	24	20	16	12	10	8	5	4
NO CEIL	12.4	14.0	15.2	16.4	16.5	17.9	19.3	19.9	21.4	22.7	22.3	23.1	23.4	24.1	24.5	
GE 2000	13.1	15.2	16.7	17.6	17.7	19.3	20.7	21.4	23.0	23.7	24.0	24.8	25.1	25.9	26.2	
GE 1800	13.1	15.2	16.7	17.6	17.7	19.3	20.7	21.4	23.0	23.7	24.0	24.8	25.1	25.9	26.2	
GE 1600	13.1	15.2	16.7	17.6	17.7	19.3	20.7	21.4	23.0	23.7	24.0	24.8	25.1	25.9	26.2	
GE 1400	13.1	15.2	16.7	17.6	17.7	19.3	20.7	21.4	23.0	23.7	24.0	24.8	25.1	25.9	26.2	
GE 1200	13.1	15.2	16.7	17.6	17.7	19.3	20.7	21.4	23.0	23.7	24.0	24.8	25.1	25.9	26.2	
GE 1000	14.0	16.1	17.6	18.4	18.5	20.2	21.7	22.4	24.0	24.8	25.1	25.9	26.2	26.9	27.3	
GE 900	14.4	16.6	18.1	19.0	19.1	20.7	22.2	23.0	24.6	25.3	25.6	26.4	26.7	27.5	27.8	
GE 800	15.4	17.9	19.4	20.3	20.4	22.0	23.5	24.2	25.9	26.6	26.9	27.7	28.0	28.8	29.1	
GE 700	16.3	18.9	20.4	21.2	21.3	23.0	24.5	25.2	26.8	27.6	27.9	28.7	29.0	29.7	30.1	
GE 600	16.4	19.1	20.6	21.4	21.6	23.2	24.7	25.4	27.0	27.8	28.1	28.9	29.2	30.0	30.3	
GE 500	17.7	20.4	21.9	22.8	23.0	24.6	26.1	26.8	28.4	29.2	29.5	30.3	30.6	31.4	31.7	
GE 450	20.6	23.4	25.1	26.2	26.5	28.2	29.7	30.7	32.7	33.4	33.7	34.6	34.9	35.7	36.0	
GE 400	23.2	26.0	27.9	29.0	29.3	31.0	32.5	33.5	35.6	36.3	36.7	37.6	37.9	38.7	39.1	
GE 350	25.4	28.3	30.4	31.5	31.8	33.6	35.1	36.1	38.1	38.9	39.3	40.2	40.5	41.3	41.7	
GE 300	31.7	35.3	38.0	39.5	39.9	41.7	43.3	44.6	46.9	47.6	48.1	48.9	49.2	50.0	50.4	
GE 250	34.3	38.4	41.4	43.0	43.3	45.2	47.1	48.4	50.8	51.5	51.9	52.8	53.1	53.9	54.3	
GE 200	38.6	43.0	46.6	48.3	48.6	50.5	53.0	54.7	57.1	57.9	58.3	59.3	59.6	60.3	60.8	
GE 180	40.4	44.8	48.5	50.2	50.5	52.6	55.1	56.8	59.2	59.9	60.3	61.3	61.6	62.4	62.8	
GE 150	47.8	52.4	56.8	58.5	58.8	60.9	63.7	65.4	67.9	68.6	69.1	70.0	70.4	71.1	71.6	
GE 120	50.9	56.4	61.0	63.0	63.4	65.7	68.6	70.4	73.0	73.7	74.1	75.1	75.4	76.2	76.6	
GE 100	53.1	59.5	65.1	67.7	68.1	70.5	73.7	75.4	78.2	79.0	79.4	80.4	80.7	81.5	81.9	
GE 90	54.2	61.0	66.1	70.7	71.2	73.6	77.2	78.9	82.2	83.1	83.5	84.5	84.8	85.6	86.0	
GE 80	54.6	61.6	69.4	72.0	72.7	75.6	79.6	81.6	84.9	85.8	86.2	87.2	87.5	88.3	88.7	
GE 70	54.6	61.9	70.4	73.4	74.1	77.2	81.5	83.4	87.3	88.3	88.8	90.0	90.3	91.1	91.5	
GE 60	54.6	61.9	71.0	74.0	74.8	77.9	82.3	84.3	89.2	90.2	90.7	91.9	92.2	93.0	93.4	
GE 50	54.6	62.0	71.1	74.5	75.4	78.8	83.4	85.3	91.2	92.2	92.8	94.0	94.3	95.0	95.5	
GE 40	54.6	62.0	71.1	74.5	75.5	78.9	83.7	85.8	92.2	93.3	94.0	95.2	95.5	96.2	96.7	
GE 30	54.6	62.0	71.1	74.5	75.5	79.1	84.3	86.3	93.6	94.7	95.5	96.7	97.0	97.7	98.2	
GE 20	54.6	62.0	71.1	74.5	75.5	79.1	84.3	86.4	93.8	94.8	95.6	96.8	97.7	98.9	99.6	
GE 10	54.6	62.0	71.1	74.5	75.5	79.1	84.3	86.4	93.8	94.8	95.6	96.9	98.1	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 928

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
MONTH: JAN HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.5	12.0	13.7	14.7	14.8	16.4	18.4	19.0	20.3	20.9	21.1	21.6	21.8	22.3	22.7
GE 20000		11.2	13.0	15.1	16.1	16.2	17.8	19.9	20.7	22.0	22.6	22.8	23.3	23.5	24.0	24.5
GE 18000		11.2	13.0	15.1	16.1	16.2	17.8	19.9	20.7	22.0	22.6	22.8	23.3	23.5	24.0	24.5
GE 16000		11.2	13.0	15.1	16.1	16.2	17.8	19.9	20.7	22.0	22.6	22.8	23.3	23.5	24.0	24.5
GE 14000		11.2	13.0	15.1	16.1	16.2	17.8	19.9	20.7	22.0	22.6	22.8	23.3	23.5	24.0	24.5
GE 12000		11.3	13.3	15.3	16.3	16.4	18.0	20.2	20.9	22.2	22.8	23.1	23.5	23.7	24.2	24.7
GE 10000		11.7	13.7	15.7	16.7	16.8	18.4	20.6	21.3	22.7	23.4	23.6	24.0	24.2	24.8	25.2
GE 9000		11.7	13.7	15.7	16.7	16.8	18.4	20.6	21.3	22.7	23.4	23.6	24.0	24.2	24.8	25.2
GE 8000		13.0	15.1	17.2	18.2	18.3	20.2	22.3	23.1	24.6	25.2	25.4	25.9	26.1	26.6	27.0
GE 7000		13.5	15.5	17.7	18.9	19.0	20.8	23.0	23.7	25.2	25.9	26.1	26.5	26.7	27.3	27.7
GE 6000		13.5	15.6	17.8	19.0	19.1	20.9	23.1	23.8	25.3	26.0	26.2	26.6	26.8	27.4	27.8
GE 5000		14.9	17.1	19.4	20.7	20.8	22.6	24.8	25.5	27.0	27.7	27.9	28.3	28.6	29.1	29.5
GE 4000		17.9	20.2	22.5	23.9	24.4	26.3	28.6	29.6	31.1	31.8	32.0	32.4	32.7	33.2	33.6
GE 3000		21.2	23.5	26.2	27.6	28.0	30.0	32.2	33.4	35.0	35.7	35.9	36.3	36.5	37.1	37.5
GE 2500		22.5	25.1	27.8	29.2	29.6	31.7	34.1	35.2	37.1	37.7	37.9	38.4	38.6	39.1	39.5
GE 2000		28.4	31.5	34.6	36.1	36.5	38.7	41.1	42.2	44.2	44.8	45.0	45.5	45.7	46.2	46.7
GE 1500		32.2	35.6	38.9	40.4	41.8	43.0	45.6	46.8	48.7	49.4	49.6	50.0	50.2	50.9	51.3
GE 1200		36.5	40.3	44.5	46.0	46.4	48.8	51.5	53.2	55.4	56.3	56.5	57.0	57.2	57.9	58.3
GE 1000		37.6	41.7	45.9	47.4	47.8	50.2	52.9	54.6	56.8	57.7	57.9	58.4	58.6	59.3	59.7
GE 800		46.2	51.2	55.7	57.3	57.8	60.2	63.7	65.5	67.7	68.5	68.8	69.3	69.5	70.2	70.6
GE 600		49.5	54.6	59.9	61.9	62.3	65.1	69.0	70.9	73.2	74.0	74.2	74.8	75.0	75.6	76.1
GE 500		52.0	57.9	63.5	66.3	66.7	69.6	73.7	75.6	77.9	78.8	79.0	79.5	79.7	80.4	80.8
GE 400		52.8	59.4	65.9	68.9	69.3	72.3	76.7	78.7	81.1	82.0	82.2	82.8	83.0	83.6	84.1
GE 300		53.2	60.1	67.1	70.0	70.5	73.9	79.0	81.3	83.8	84.7	84.9	85.5	85.7	86.3	86.7
GE 200		53.7	60.8	68.5	71.7	72.1	75.6	81.0	83.3	86.5	87.4	87.6	88.3	88.5	89.1	89.5
GE 100		53.7	60.8	69.5	72.6	73.1	77.3	82.8	85.0	89.1	90.0	90.2	90.8	91.1	91.7	92.1
GE 500		53.7	60.8	69.7	73.0	73.4	77.9	83.9	86.2	90.9	91.8	92.0	92.7	92.9	93.5	94.0
GE 400		53.7	60.8	69.7	73.0	73.7	78.2	84.6	86.9	92.3	93.2	93.9	94.8	95.0	95.7	96.1
GE 300		53.7	60.8	69.7	73.0	73.7	78.2	84.9	87.2	93.4	94.3	94.9	95.9	96.1	96.8	97.2
GE 200		53.7	60.8	69.7	73.0	73.7	78.2	84.9	87.2	94.0	94.8	95.5	96.4	97.1	98.5	99.4
GE 100		53.7	60.6	69.7	73.0	73.7	78.2	84.9	87.2	94.0	94.8	95.5	96.4	97.3	98.8	100.0
GE 0		53.7	60.6	69.7	73.0	73.7	78.2	84.9	87.2	94.0	94.8	95.5	96.4	97.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 948

GLOBAL CLIMATOLOGY BRANCH  
 USAF/TAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JAN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.6	10.5	12.0	13.3	13.4	14.7	17.2	18.0	18.6	19.0	19.0	19.2	19.2	19.4	19.5
GE 2000	11.0	11.9	13.9	15.2	15.3	16.6	19.2	20.2	20.9	21.4	21.4	21.6	21.6	21.6	21.8	21.9
GE 1800	11.0	11.9	13.9	15.2	15.3	16.6	19.2	20.2	20.9	21.4	21.4	21.6	21.6	21.6	21.8	21.9
GE 1600	11.0	11.9	13.9	15.2	15.3	16.6	19.2	20.2	20.9	21.4	21.4	21.6	21.6	21.6	21.8	21.9
GE 1400	11.1	12.0	14.0	15.3	15.4	16.7	19.3	20.3	21.0	21.5	21.5	21.7	21.7	21.7	21.9	22.0
GE 1200	11.1	12.1	14.2	15.5	15.6	16.9	19.5	20.5	21.3	21.7	21.7	21.9	21.9	21.9	22.1	22.2
GE 1000	11.5	12.6	14.8	16.1	16.2	17.5	20.1	21.0	21.8	22.2	22.2	22.4	22.4	22.4	22.7	22.8
GE 900	11.9	12.9	15.2	16.5	16.6	17.9	20.5	21.5	22.2	22.7	22.7	22.9	22.9	22.9	23.1	23.2
GE 800	12.3	13.6	15.9	17.2	17.3	18.6	21.1	22.2	23.0	23.4	23.4	23.6	23.6	23.6	23.8	23.9
GE 700	12.6	13.9	16.2	17.5	17.6	18.9	21.5	22.5	23.4	23.8	23.8	24.1	24.1	24.1	24.3	24.4
GE 600	12.7	14.0	16.3	17.6	17.7	19.0	21.7	22.8	23.6	24.1	24.1	24.3	24.3	24.3	24.5	24.6
GE 500	14.0	15.3	17.6	18.9	19.0	20.3	23.0	24.1	25.0	25.5	25.5	25.7	25.7	25.7	25.9	26.0
GE 450	16.6	18.0	20.5	21.8	22.1	23.4	26.2	27.4	28.5	28.9	28.9	29.1	29.1	29.1	29.3	29.4
GE 400	18.6	20.0	22.5	23.8	24.2	25.7	28.5	29.7	30.7	31.2	31.2	31.5	31.5	31.5	31.7	31.8
GE 350	20.5	22.0	24.6	26.1	26.4	28.4	31.3	32.7	33.8	34.2	34.2	34.5	34.5	34.5	34.7	34.8
GE 300	25.0	26.6	30.3	31.7	32.1	34.4	37.5	39.1	40.2	40.7	40.7	41.0	41.0	41.0	41.2	41.3
GE 250	28.2	30.0	33.7	35.1	35.5	38.0	41.1	42.6	43.8	44.2	44.2	44.6	44.6	44.6	44.8	44.9
GE 200	34.1	36.1	40.8	42.6	43.0	45.8	49.0	50.7	51.9	52.4	52.5	52.9	52.9	52.9	53.1	53.2
GE 180	35.7	37.8	42.7	44.6	45.0	47.8	50.9	52.6	53.8	54.4	54.5	54.8	54.8	54.8	55.0	55.1
GE 150	43.5	46.0	51.7	53.9	54.6	57.5	60.9	62.7	63.9	64.4	64.5	64.8	64.8	64.8	65.0	65.2
GE 120	47.7	50.6	57.6	60.0	60.6	63.8	67.5	69.4	70.7	71.2	71.3	71.6	71.6	71.6	71.8	72.1
GE 100	50.4	54.2	62.0	65.4	66.0	69.3	73.4	75.2	76.5	77.0	77.1	77.5	77.5	77.5	77.7	77.9
GE 90	51.2	56.2	65.2	68.6	69.3	72.6	76.8	78.6	79.9	80.5	80.6	80.9	80.9	80.9	81.1	81.3
GE 80	52.5	58.3	67.7	71.3	72.0	75.7	80.2	82.0	83.3	83.8	83.9	84.3	84.3	84.3	84.5	84.7
GE 70	53.1	58.9	68.6	72.6	73.4	77.7	82.3	84.3	86.2	86.8	86.9	87.3	87.3	87.3	87.5	87.7
GE 60	53.1	58.9	69.1	73.5	74.2	79.2	84.1	86.1	88.5	89.1	89.2	89.5	89.5	89.5	89.8	90.0
GE 50	53.1	58.9	69.9	74.2	75.0	80.2	85.9	87.8	90.4	91.0	91.2	91.5	91.5	91.5	91.7	91.9
GE 40	53.3	59.1	70.1	74.4	75.2	80.5	86.7	88.7	91.8	92.8	92.9	93.2	93.2	93.2	93.4	93.7
GE 30	53.3	59.1	70.1	74.5	75.3	80.6	87.3	89.3	94.2	95.3	95.4	95.8	95.8	95.8	96.0	96.3
GE 20	53.3	59.1	70.1	74.5	75.3	80.6	87.3	89.3	94.5	95.6	96.0	96.4	96.4	96.4	96.9	96.9
GE 10	53.3	59.1	70.1	74.5	75.3	80.6	87.3	89.3	94.6	95.7	96.1	96.5	96.5	96.5	96.9	96.9
GE 0		53.3	59.1	70.1	74.5	75.3	80.6	87.3	89.3	94.6	95.7	96.1	96.5	96.9	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JAN HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GF 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL ]		8.0	8.6	9.7	11.2	11.2	12.5	13.0	13.8	15.3	15.6	15.6	15.7	16.3	16.4	16.4
GE 20000]		10.1	11.0	12.1	13.7	13.7	15.0	15.5	16.3	18.2	18.6	18.6	18.8	19.4	19.6	19.9
GE 18000]		10.1	11.0	12.1	13.7	13.7	15.0	15.5	16.3	18.2	18.6	18.6	18.8	19.4	19.6	19.9
GE 16000]		10.1	11.0	12.1	13.7	13.7	15.0	15.5	16.3	18.2	18.6	18.6	18.8	19.4	19.6	19.9
GE 14000]		10.1	11.0	12.1	13.7	13.7	15.0	15.5	16.3	18.2	18.6	18.6	18.8	19.4	19.6	19.9
GE 12000]		10.1	11.0	12.1	13.7	13.7	15.0	15.5	16.3	18.2	18.6	18.6	18.8	19.4	19.6	19.9
GE 10000]		10.5	11.4	12.7	14.3	14.3	15.6	16.2	16.9	18.9	19.3	19.3	19.4	20.0	20.3	20.6
GE 9000]		10.7	11.6	12.9	14.5	14.5	15.8	16.4	17.1	19.1	19.5	19.5	19.6	20.3	20.5	20.8
GE 8000]		12.0	13.1	14.8	16.6	16.6	18.0	18.8	19.5	21.6	22.0	22.0	22.1	22.7	23.0	23.3
GE 7000]		12.7	14.0	15.7	17.7	17.7	19.1	19.9	20.8	22.8	23.4	23.4	23.5	24.1	24.4	24.7
GE 6000]		12.7	14.0	15.7	17.7	17.7	19.1	19.9	20.8	23.0	23.5	23.5	23.6	24.2	24.5	24.8
GE 5000]		13.9	15.2	16.9	18.9	19.1	20.5	21.3	22.2	24.5	25.0	25.0	25.1	25.8	26.0	26.3
GF 4500]		17.0	18.8	20.7	22.6	22.8	24.4	25.2	26.1	28.3	28.9	28.9	29.0	29.6	29.8	30.2
GF 4000]		17.6	19.5	21.8	24.0	24.2	25.8	26.7	27.6	29.8	30.4	30.4	30.5	31.1	31.5	31.8
GE 3500]		19.9	22.2	24.7	27.0	27.3	29.0	30.1	30.9	33.2	33.7	33.7	33.8	34.5	34.8	35.1
GE 3000]		23.8	26.3	30.3	33.0	33.2	35.2	36.3	37.2	39.4	40.0	40.0	40.1	40.7	41.1	41.4
GE 2500]		27.2	30.0	34.6	37.5	37.7	39.9	40.9	41.8	44.1	44.6	44.6	44.7	45.4	45.7	46.0
GE 2000]		31.4	34.7	39.7	43.1	43.3	45.8	47.0	48.0	50.2	50.9	50.9	51.0	51.6	51.9	52.3
GE 1800]		33.1	36.4	41.4	45.2	45.4	47.8	49.0	50.0	52.3	52.9	52.9	53.0	53.7	54.0	54.3
GF 1500]		39.0	42.7	48.9	53.7	53.9	56.7	57.9	58.8	61.6	62.3	62.3	62.5	63.1	63.5	63.8
GE 1200]		42.7	47.1	54.5	59.9	60.1	63.1	64.3	65.3	68.2	68.9	68.9	69.1	69.7	70.0	70.4
GE 1000]		45.8	50.8	59.2	65.3	65.5	68.4	70.2	71.3	74.5	75.1	75.1	75.3	76.0	76.3	76.6
GE 900]		46.8	52.8	62.7	69.4	69.7	73.4	74.8	76.2	79.4	80.1	80.1	80.3	80.7	81.3	81.6
GE 800]		47.2	54.0	64.4	71.9	72.3	76.1	77.7	79.1	82.5	83.2	83.2	83.4	84.1	84.4	84.7
GE 700]		47.5	54.4	65.8	73.6	74.1	78.0	79.6	81.0	84.5	85.2	85.2	85.5	86.1	86.4	86.7
GE 600]		47.8	54.6	67.1	75.1	75.9	80.2	82.3	83.7	87.8	88.6	88.6	88.8	89.4	89.8	90.1
GE 500]		47.8	54.8	67.3	75.3	76.1	80.5	83.1	84.8	89.2	90.0	90.0	90.4	91.1	91.4	91.9
GE 400]		48.0	55.0	67.5	75.4	76.2	80.9	83.9	85.7	90.5	91.3	91.5	92.0	92.8	93.1	93.6
GE 300]		48.0	55.0	67.5	75.4	76.2	80.9	84.1	85.9	91.3	92.0	92.2	92.9	94.1	94.5	95.0
GE 200]		48.0	55.0	67.5	75.4	76.2	80.9	84.1	86.0	91.9	92.8	93.1	94.2	96.0	97.4	98.8
GE 100]		48.0	55.1	67.6	75.5	76.3	81.0	84.2	86.1	92.0	92.9	93.3	94.4	96.2	97.6	99.7
GE ]		48.0	55.1	67.6	75.5	76.3	81.0	84.2	86.1	92.1	93.0	93.4	94.5	96.3	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 928

GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JAN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		8.1	9.2	11.0	12.2	12.2	12.9	14.0	14.7	15.9	16.2	16.2	16.2	16.5	16.5	16.7
GE 20000		11.3	12.7	15.4	16.7	16.7	17.6	18.7	19.5	21.0	21.3	21.3	21.3	21.5	21.5	21.7
GE 18000		11.5	12.9	15.6	16.9	16.9	17.8	18.9	19.7	21.2	21.5	21.5	21.5	21.7	21.7	21.9
GE 16000		11.5	12.9	15.6	16.9	16.9	17.8	18.9	19.7	21.2	21.5	21.5	21.5	21.7	21.7	21.9
GE 14000		11.7	13.1	15.8	17.1	17.1	18.1	19.1	19.9	21.4	21.7	21.7	21.7	21.9	21.9	22.2
GE 12000		11.8	13.2	16.0	17.3	17.3	18.3	19.4	20.1	21.6	21.9	21.9	21.9	22.2	22.2	22.4
GE 10000		12.8	14.3	17.2	18.5	18.5	19.5	20.5	21.3	22.8	23.1	23.1	23.1	23.3	23.3	23.5
GE 9000		12.9	14.4	17.3	18.6	18.6	19.6	20.6	21.4	22.9	23.2	23.2	23.2	23.4	23.4	23.7
GE 8000		13.9	16.0	19.2	20.9	20.9	22.0	23.1	23.9	25.5	25.8	25.8	25.8	26.0	26.0	26.2
GE 7000		14.7	16.9	20.2	22.0	22.0	23.2	24.3	25.1	26.7	27.0	27.0	27.0	27.2	27.2	27.4
GE 6000		15.1	17.2	20.5	22.4	22.4	23.5	24.6	25.4	27.0	27.3	27.3	27.3	27.5	27.5	27.7
GE 5000		15.5	17.6	21.1	23.1	23.1	24.3	25.4	26.1	27.7	28.1	28.1	28.1	28.3	28.3	28.5
GE 4500		17.4	19.6	23.1	25.2	25.2	26.3	27.4	28.2	30.0	30.3	30.4	30.4	30.6	30.6	30.9
GE 4000		18.9	21.3	25.1	27.3	27.3	28.7	29.9	30.9	32.7	33.0	33.1	33.1	33.3	33.3	33.5
GE 3500		21.5	24.1	28.3	30.5	30.5	32.0	33.3	34.3	36.2	36.6	36.7	36.7	36.9	36.9	37.1
GE 3000		26.5	29.5	34.8	37.3	37.3	39.0	40.3	41.3	43.4	43.8	43.9	43.9	44.1	44.1	44.3
GE 2500		30.1	33.1	38.8	41.6	41.6	43.4	44.7	45.7	48.0	48.3	48.4	48.4	48.6	48.6	48.8
GE 2000		34.5	37.6	44.4	47.7	47.7	49.8	51.2	52.2	54.5	54.8	54.9	54.9	55.2	55.2	55.4
GE 1800		36.0	39.6	46.1	49.6	49.7	51.6	53.0	54.0	56.3	56.7	56.8	56.8	57.0	57.0	57.2
GE 1500		42.5	46.7	54.7	58.6	58.6	61.0	62.6	63.5	66.1	66.5	66.9	66.9	67.1	67.1	67.3
GE 1200		45.6	50.1	59.1	63.4	63.9	66.1	68.1	69.1	72.2	72.5	72.9	72.9	73.1	73.1	73.3
GE 1000		48.2	53.5	63.5	68.6	69.4	72.4	74.4	75.5	78.6	78.9	79.4	79.4	79.6	79.6	79.8
GE 900		48.6	54.6	66.1	72.0	73.0	76.1	78.2	79.4	82.6	82.9	83.3	83.3	83.5	83.5	83.8
GE 800		49.1	55.3	67.5	74.2	75.2	78.5	80.5	81.8	85.3	85.6	86.0	86.0	86.2	86.2	86.5
GE 700		49.5	55.8	68.9	76.7	77.8	81.3	83.5	84.8	88.7	89.0	89.6	89.6	89.9	89.9	90.1
GE 600		49.6	56.0	69.4	77.6	78.9	83.2	86.0	87.4	92.2	92.5	93.0	93.0	93.3	93.3	93.5
GE 500		49.8	56.2	69.8	78.4	79.7	84.0	87.2	88.7	94.1	94.7	95.3	95.3	95.6	95.6	95.9
GE 400		49.8	56.2	69.8	78.4	79.7	84.0	87.3	88.9	94.5	95.4	96.2	96.2	96.6	96.6	96.9
GE 300		49.8	56.2	69.8	78.4	79.7	84.0	87.3	89.2	94.8	95.7	96.6	96.6	96.9	96.9	97.2
GE 200		49.8	56.2	69.8	78.4	79.7	84.0	87.3	89.2	94.9	95.8	96.7	96.9	97.7	98.5	99.6
GE 100		49.8	56.2	69.8	78.4	79.7	84.0	87.3	89.2	94.9	95.8	96.7	96.9	97.7	98.5	100.0
GE 0		49.8	56.2	69.8	78.4	79.7	84.0	87.3	89.2	94.9	95.8	96.7	96.9	97.7	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JAN HOURS(IST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 46	LE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.6	12.2	14.0	15.1	15.2	16.2	16.8	17.2	17.8	17.8	17.8	17.8	17.8	17.8	17.8
GE 20000		14.5	16.1	18.6	19.9	20.0	21.1	21.7	22.2	22.8	22.8	22.8	22.8	22.8	22.8	22.8
GE 18000		15.2	16.8	19.2	20.5	20.6	21.7	22.4	22.8	23.4	23.4	23.4	23.4	23.4	23.4	23.4
GE 16000		15.3	16.9	19.4	20.6	20.8	21.8	22.5	22.9	23.5	23.5	23.5	23.5	23.5	23.5	23.5
GE 14000		15.7	17.3	19.8	21.1	21.2	22.3	22.9	23.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0
GE 12000		15.7	17.3	20.1	21.4	21.5	22.6	23.2	23.7	24.3	24.3	24.3	24.3	24.3	24.3	24.3
GE 10000		17.1	18.8	21.8	23.2	23.3	24.4	25.1	25.5	26.2	26.2	26.2	26.2	26.2	26.2	26.2
GE 9000		17.4	19.1	22.2	23.5	23.7	24.7	25.4	25.8	26.6	26.6	26.6	26.6	26.6	26.6	26.6
GE 8000		19.0	20.8	24.1	25.5	25.6	26.7	27.3	27.7	28.5	28.5	28.5	28.5	28.5	28.5	28.5
GE 7000		19.9	21.6	25.1	26.5	26.6	27.6	28.3	28.7	29.5	29.5	29.5	29.5	29.5	29.5	29.5
GE 6000		20.1	21.8	25.3	26.7	26.8	27.8	28.5	28.9	29.7	29.7	29.7	29.7	29.7	29.7	29.7
GE 5000		21.7	23.4	26.9	28.5	28.6	29.7	30.3	30.8	31.5	31.5	31.5	31.5	31.5	31.5	31.5
GE 4500		23.3	25.3	28.7	30.3	30.6	31.8	32.5	32.9	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 4000		25.3	27.3	30.9	32.7	33.0	34.2	34.8	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0
GE 3500		27.1	29.4	33.0	34.8	35.2	36.3	37.1	37.5	38.3	38.3	38.3	38.3	38.3	38.3	38.3
GE 3000		35.3	38.6	43.4	45.6	45.9	47.1	48.0	48.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 2500		38.5	42.4	47.3	49.6	50.0	51.4	52.3	52.8	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 2000		42.3	46.3	52.2	54.8	55.3	56.7	57.5	58.1	59.6	59.6	59.6	59.6	59.6	59.6	59.6
GE 1800		45.1	49.2	55.2	57.8	58.3	59.7	60.5	61.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 1500		52.6	57.3	64.4	67.4	68.0	69.6	70.4	71.0	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 1200		55.4	60.4	68.5	71.7	72.4	74.2	75.3	75.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 1000		57.2	63.2	72.6	76.9	78.0	80.0	81.1	81.8	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 900		58.1	64.1	74.1	79.5	80.6	82.7	83.8	84.5	87.2	87.3	87.3	87.3	87.3	87.3	87.3
GE 800		58.3	64.3	75.1	80.6	82.0	84.6	85.7	86.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6
GE 700		58.4	64.4	75.7	81.9	83.5	86.6	87.7	88.5	92.3	92.5	92.5	92.5	92.5	92.5	92.5
GF 600		58.5	64.6	76.7	83.3	85.1	88.5	89.8	90.5	95.4	95.6	95.6	95.6	95.6	95.6	95.6
GE 500		58.5	64.6	76.8	83.8	85.6	89.2	90.5	91.3	96.6	96.8	96.8	96.8	97.0	97.0	97.0
GE 400		58.5	64.6	76.8	83.8	85.6	89.2	90.5	91.3	97.0	97.8	98.0	98.0	98.2	98.2	98.2
GE 300		58.5	64.6	76.8	83.8	85.6	89.2	90.6	91.5	97.4	98.3	98.4	98.4	98.6	98.6	98.6
GE 200		58.5	64.6	76.8	83.8	85.6	89.2	90.6	91.5	97.4	98.4	98.5	98.5	99.1	99.5	100.0
GE 100		58.5	64.6	76.8	83.8	85.6	89.2	90.6	91.5	97.4	98.4	98.5	98.5	99.1	99.5	100.0
GE 0		58.5	64.6	76.8	83.8	85.6	89.2	90.6	91.5	97.4	98.4	98.5	98.5	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JAN HOURS(LST): 1800-2400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.9	14.2	16.3	17.2	17.4	18.9	19.8	20.1	20.4	20.4	20.5	20.5	20.6	20.8	20.8
GE 20000		13.8	16.1	18.7	19.6	19.8	21.4	22.3	22.8	23.3	23.3	23.4	23.5	23.8	23.9	24.0
GE 18000		13.9	16.2	18.8	19.7	19.9	21.5	22.4	22.9	23.4	23.4	23.5	23.7	23.9	24.0	24.1
GE 16000		13.9	16.2	18.8	19.7	19.9	21.5	22.4	22.9	23.4	23.4	23.5	23.7	23.9	24.0	24.1
GE 14000		14.2	16.6	19.1	20.0	20.2	21.8	22.7	23.2	23.8	23.8	23.9	24.0	24.2	24.3	24.4
GE 12000		15.1	17.4	20.3	21.2	21.4	23.0	23.9	24.4	24.9	24.9	25.1	25.2	25.4	25.5	25.6
GE 10000		17.0	19.4	22.3	23.2	23.4	25.2	26.1	26.7	27.2	27.2	27.3	27.4	27.6	27.7	27.8
GE 9000		17.1	19.5	22.4	23.4	23.7	25.4	26.3	26.9	27.4	27.4	27.5	27.6	27.8	28.0	28.1
GE 8000		18.4	21.2	24.4	25.7	25.9	27.6	28.7	29.4	30.0	30.0	30.1	30.2	30.4	30.5	30.6
GE 7000		18.9	21.7	24.9	26.2	26.5	28.2	29.2	29.9	30.5	30.5	30.6	30.8	31.0	31.1	31.2
GE 6000		18.9	21.7	24.9	26.2	26.5	28.2	29.2	29.9	30.5	30.5	30.6	30.8	31.0	31.1	31.2
GE 5000		20.1	22.9	26.1	27.4	27.6	29.4	30.4	31.1	31.7	31.7	31.8	31.9	32.2	32.3	32.4
GE 4500		23.1	26.0	29.2	30.6	31.0	32.7	33.8	34.4	35.1	35.1	35.2	35.3	35.5	35.6	35.7
GE 4000		25.9	28.9	32.3	34.1	34.6	36.6	37.6	38.3	38.9	38.9	39.0	39.1	39.4	39.5	39.6
GE 3500		28.6	31.6	34.9	36.8	37.3	39.2	40.3	41.0	41.6	41.6	41.7	41.8	42.0	42.2	42.3
GE 3000		34.5	38.2	43.0	45.2	45.8	47.7	49.0	49.8	51.0	51.0	51.2	51.3	51.5	51.7	51.9
GE 2500		39.1	43.1	48.2	50.3	51.0	52.9	54.2	54.9	56.1	56.1	56.3	56.5	56.7	56.9	57.1
GE 2000		44.0	48.3	54.8	57.0	57.6	59.7	61.1	61.8	63.3	63.3	63.5	63.7	63.9	64.1	64.3
GE 1800		46.1	50.8	57.5	59.7	60.3	62.4	63.8	64.5	66.0	66.0	66.2	66.3	66.6	66.8	67.0
GE 1500		51.5	56.9	64.7	67.2	67.8	69.9	71.6	72.4	74.2	74.2	74.4	74.5	74.7	74.9	75.2
GE 1200		53.1	59.2	68.4	71.7	72.4	74.5	76.5	77.3	79.5	79.5	79.7	79.8	80.0	80.2	80.4
GE 1000		54.0	60.6	72.4	76.6	77.4	79.8	81.9	82.8	85.1	85.1	85.3	85.5	85.7	85.9	86.1
GE 900		54.2	61.3	73.5	78.1	78.9	81.4	83.9	84.7	87.6	87.6	87.8	88.1	88.3	88.5	88.7
GE 800		54.4	61.7	74.4	79.0	80.0	82.8	85.3	86.1	89.0	89.0	89.6	89.8	90.0	90.2	90.4
GE 700		54.4	61.8	75.2	80.4	81.4	84.4	86.9	88.0	91.6	91.6	92.4	92.6	92.8	93.0	93.2
GE 600		54.4	61.6	75.5	81.3	82.3	85.6	88.1	89.1	93.5	93.8	94.4	94.6	94.8	95.1	95.3
GE 500		54.4	61.8	75.8	81.9	82.9	86.3	88.8	89.9	94.7	94.9	95.7	95.9	96.5	96.7	96.9
GE 400		54.4	61.8	75.8	81.9	82.9	86.6	89.4	90.4	95.5	95.8	97.1	97.3	97.8	98.1	98.3
GE 300		54.4	61.8	75.8	81.9	82.9	86.6	89.4	90.4	96.0	96.3	97.6	98.1	98.6	98.8	99.0
GE 200		54.4	61.8	75.8	81.9	82.9	86.6	89.4	90.4	96.1	96.6	97.8	98.3	98.8	99.4	99.8
GE 100		54.4	61.8	75.8	81.9	82.9	86.6	89.4	90.4	96.2	96.7	98.0	98.4	98.9	99.5	99.9
GE 0		54.5	61.9	75.9	82.0	83.0	86.7	89.5	90.5	96.3	96.8	98.1	98.5	99.0	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JAN HOURS(IST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.6	13.9	15.6	16.9	17.3	18.8	20.1	20.5	21.9	21.9	22.0	22.2	22.9	23.3	23.7
GE 20000		13.5	15.8	17.5	18.9	19.4	20.9	22.3	23.1	24.5	24.5	24.7	24.9	25.8	26.2	26.7
GE 18000		13.5	15.8	17.5	18.9	19.4	20.9	22.3	23.1	24.5	24.5	24.7	24.9	25.8	26.2	26.7
GE 16000		13.5	15.8	17.5	18.9	19.4	20.9	22.3	23.1	24.5	24.5	24.7	24.9	25.8	26.2	26.7
GE 14000		13.5	15.8	17.5	18.9	19.4	20.9	22.3	23.1	24.5	24.5	24.7	24.9	25.8	26.2	26.7
GE 12000		13.5	15.8	17.7	19.1	19.6	21.1	22.5	23.3	24.7	24.7	24.9	25.2	26.0	26.5	26.9
GE 10000		14.7	17.0	18.9	20.3	20.8	22.3	23.7	24.5	25.9	25.9	26.1	26.3	27.2	27.6	28.1
GE 9000		14.9	17.2	19.1	20.5	21.0	22.5	23.9	24.7	26.1	26.1	26.3	26.6	27.4	27.8	28.3
GE 8000		16.6	18.8	21.1	22.5	22.9	24.4	25.9	26.8	28.2	28.2	28.4	28.6	29.5	29.9	30.3
GE 7000		17.1	19.4	21.6	23.0	23.4	24.9	26.5	27.3	28.7	28.7	28.9	29.1	30.0	30.4	30.9
GE 6000		17.1	19.4	21.6	23.0	23.4	24.9	26.5	27.3	28.7	28.7	28.9	29.1	30.0	30.4	30.9
GE 5000		18.6	21.0	23.2	24.6	25.1	26.6	28.1	28.9	30.3	30.3	30.5	30.8	31.6	32.0	32.5
GE 4500		21.9	24.6	27.0	28.6	29.4	30.9	32.4	33.2	34.6	34.6	34.8	35.1	35.9	36.3	36.8
GE 4000		24.9	27.6	30.3	31.9	32.8	34.3	35.9	36.8	38.2	38.2	38.4	38.6	39.5	39.9	40.3
GE 3500		27.0	29.7	32.4	34.0	34.8	36.3	38.0	38.8	40.3	40.3	40.5	40.9	41.7	42.2	42.6
GE 3000		32.0	35.2	38.6	40.8	41.6	43.4	45.2	46.0	48.3	48.3	48.6	49.2	50.1	50.5	51.0
GE 2500		36.9	40.3	44.0	46.2	47.1	48.9	50.6	51.5	53.8	53.8	54.1	54.7	55.6	56.0	56.5
GE 2000		41.6	45.8	50.2	52.5	53.3	55.6	57.6	58.5	60.9	60.9	61.2	61.8	62.7	63.1	63.5
GE 1800		42.2	46.7	51.3	53.5	54.4	56.8	58.8	59.7	62.0	62.0	62.4	63.0	63.9	64.3	64.7
GE 1500		49.7	54.7	60.5	63.2	64.1	66.5	68.6	69.8	72.3	72.3	72.6	73.2	74.1	74.5	74.9
GE 1200		51.1	57.2	64.7	67.8	68.9	71.7	73.9	75.4	77.8	77.8	78.2	78.8	79.7	80.1	80.5
GE 1000		52.0	58.3	67.5	70.6	71.7	74.6	77.3	78.8	81.4	81.4	81.7	82.4	83.2	83.7	84.1
GE 900		52.9	59.5	69.7	72.9	74.0	77.1	79.9	81.4	84.2	84.2	84.6	85.3	86.1	86.6	87.0
GE 800		53.2	60.3	71.3	74.7	75.9	79.2	82.0	83.5	86.7	86.7	87.4	88.3	89.1	89.6	90.0
GE 700		53.2	60.3	72.0	76.2	77.4	81.0	84.0	85.5	89.4	89.4	90.1	91.0	91.8	92.3	92.7
GE 600		53.2	60.3	72.5	77.0	78.2	81.9	84.8	86.5	90.8	90.8	91.5	92.4	93.2	93.7	94.1
GE 500		53.2	60.3	72.7	77.5	78.8	82.7	85.7	87.3	91.8	91.8	92.6	93.4	94.6	95.1	95.5
GE 400		53.2	60.3	72.7	77.5	78.8	83.1	86.2	88.1	93.5	93.5	94.3	95.2	96.3	96.8	97.2
GE 300		53.2	60.3	72.7	77.5	78.8	83.5	86.7	88.5	94.6	94.6	95.4	96.2	97.4	97.8	98.3
GE 200		53.2	60.3	72.7	77.5	78.8	83.5	86.7	88.5	94.6	94.9	95.7	96.7	98.5	99.0	99.7
GE 100		53.2	60.3	72.7	77.5	78.8	83.5	86.7	88.5	94.6	94.9	95.7	96.9	98.7	99.4	100.0
GE 0		53.2	60.3	72.7	77.5	78.8	83.5	86.7	88.5	94.6	94.9	95.7	96.9	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JAN HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		10.3	11.8	13.5	14.6	14.7	16.0	17.3	17.9	19.0	19.3	19.3	19.5	19.8	20.1	20.3
GE 20000		12.3	14.0	16.0	17.2	17.3	18.7	20.0	20.8	22.0	22.3	22.4	22.6	22.9	23.2	23.5
GE 18000		12.4	14.1	16.1	17.3	17.5	18.8	20.2	20.9	22.1	22.4	22.5	22.7	23.1	23.3	23.6
GE 16000		12.5	14.1	16.1	17.3	17.5	18.8	20.2	20.9	22.1	22.4	22.5	22.8	23.1	23.3	23.6
GE 14000		12.6	14.3	16.3	17.5	17.6	19.0	20.3	21.0	22.2	22.6	22.7	22.9	23.2	23.5	23.7
GE 12000		12.7	14.4	16.6	17.8	17.9	19.3	20.6	21.3	22.5	22.9	23.0	23.2	23.5	23.8	24.0
GE 10000		13.7	15.4	17.6	18.9	19.0	20.4	21.7	22.5	23.7	24.0	24.1	24.4	24.7	24.9	25.2
GE 9000		13.9	15.6	17.9	19.1	19.2	20.6	22.0	22.7	24.0	24.3	24.4	24.6	24.9	25.2	25.4
GE 8000		15.1	17.1	19.5	20.8	21.0	22.4	23.8	24.6	25.9	26.2	26.3	26.6	26.9	27.1	27.4
GE 7000		15.7	17.7	20.2	21.6	21.8	23.2	24.6	25.4	26.7	27.0	27.2	27.4	27.7	28.0	28.2
GE 6000		15.8	17.9	20.3	21.7	21.9	23.3	24.8	25.5	26.9	27.2	27.3	27.5	27.8	28.1	28.4
GE 5000		17.1	19.1	21.6	23.1	23.3	24.7	26.2	26.9	28.3	28.6	28.7	29.0	29.3	29.6	29.8
GE 4500		19.7	22.0	24.6	26.2	26.5	28.0	29.5	30.3	31.7	32.1	32.2	32.4	32.8	33.0	33.3
GE 4000		21.9	24.3	27.1	28.8	29.2	30.8	32.3	33.2	34.6	35.0	35.1	35.4	35.7	36.0	36.2
GE 3500		24.1	26.6	29.5	31.2	31.6	33.3	34.9	35.8	37.3	37.7	37.8	38.1	38.4	38.7	38.9
GE 3000		29.7	32.7	36.6	38.6	39.1	40.9	42.6	43.6	45.4	45.7	45.9	46.2	46.5	46.8	47.1
GE 2500		33.3	36.6	40.9	43.0	43.4	45.3	47.1	48.1	49.9	50.3	50.4	50.7	51.1	51.4	51.6
GE 2000		37.9	41.6	46.6	49.0	49.4	51.6	53.5	54.6	56.6	57.0	57.2	57.5	57.8	58.1	58.4
GE 1800		39.5	43.4	48.6	51.0	51.4	53.6	55.5	56.7	58.6	59.0	59.2	59.5	59.8	60.2	60.4
GE 1500		46.6	51.0	57.2	60.0	60.5	62.8	64.9	66.1	68.3	68.7	68.9	69.2	69.5	69.9	70.1
GE 1200		49.5	54.5	61.7	64.9	65.5	68.0	70.4	71.7	74.1	74.5	74.7	75.0	75.3	75.7	75.9
GE 1000		51.6	57.2	65.7	69.7	70.4	73.1	75.7	77.1	79.5	79.9	80.2	80.5	80.8	81.1	81.4
GE 900		52.3	58.6	68.2	72.5	73.3	76.2	78.9	80.3	83.0	83.5	83.7	84.1	84.4	84.7	85.0
GE 800		52.8	59.5	69.6	74.2	75.1	78.3	81.3	82.7	85.6	86.0	86.4	86.7	87.1	87.4	87.7
GE 700		53.0	59.8	70.6	75.8	76.7	80.2	83.3	84.8	88.3	88.8	89.1	89.6	89.9	90.2	90.5
GE 600		53.1	59.9	71.3	76.8	77.8	81.7	85.0	86.6	90.8	91.3	91.7	92.1	92.4	92.7	93.0
GE 500		53.1	59.9	71.6	77.3	78.4	82.5	86.1	87.7	92.4	92.9	93.3	93.7	94.2	94.5	94.8
GE 400		53.2	60.0	71.7	77.4	78.5	82.7	86.6	88.2	93.4	94.1	94.7	95.2	95.7	96.0	96.3
GE 300		53.2	60.0	71.7	77.4	78.5	82.8	86.8	88.5	94.4	95.2	95.7	96.3	96.8	97.1	97.5
GE 200		53.2	60.0	71.7	77.4	78.5	82.8	86.8	88.6	94.7	95.5	96.1	96.8	97.7	98.6	99.5
GE 100		53.2	60.0	71.7	77.4	78.5	82.8	86.8	88.6	94.7	95.5	96.2	96.9	97.9	98.9	99.9
GE 0		53.2	60.0	71.7	77.4	78.5	82.8	86.8	88.6	94.7	95.5	96.2	96.9	97.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 7431

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: FEB HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		21.5	24.1	28.5	31.1	32.9	33.1	34.8	35.2	37.6	37.7	37.8	38.7	39.1	40.9	41.4
GE 20000		22.7	25.7	30.3	32.9	34.6	35.0	36.8	37.2	39.6	39.7	39.8	40.7	41.3	43.1	43.6
GE 18000		22.7	25.7	30.3	32.9	34.6	35.0	36.8	37.2	39.6	39.7	39.8	40.7	41.3	43.1	43.6
GE 16000		22.7	25.7	30.3	32.9	34.6	35.0	36.8	37.2	39.6	39.7	39.8	40.7	41.3	43.1	43.6
GE 14000		22.7	25.7	30.3	32.9	34.6	35.0	36.8	37.2	39.6	39.7	39.8	40.7	41.3	43.1	43.6
GE 12000		22.7	25.7	30.3	32.9	34.6	35.0	36.8	37.2	39.6	39.7	39.8	40.7	41.3	43.1	43.6
GE 10000		23.3	26.2	30.9	33.5	35.6	35.9	37.7	38.2	40.5	40.7	40.8	41.6	42.2	44.1	44.6
GE 9000		23.5	26.5	31.3	34.0	36.2	36.5	38.7	39.1	41.5	41.6	41.7	42.6	43.1	45.0	45.5
GE 8000		24.8	27.9	33.2	35.9	38.1	38.4	40.9	41.4	43.9	44.0	44.1	45.0	45.6	47.5	48.0
GE 7000		25.1	28.1	33.5	36.2	38.3	38.7	41.1	41.6	44.1	44.2	44.3	45.3	45.9	47.8	48.2
GE 6000		25.1	28.1	33.5	36.2	38.3	38.7	41.1	41.6	44.1	44.2	44.3	45.3	45.9	47.8	48.2
GE 5000		26.4	29.4	35.2	38.1	40.2	40.5	43.0	43.5	46.0	46.1	46.2	47.2	47.9	49.8	50.2
GE 4500		30.3	33.3	39.2	42.1	44.2	44.8	47.3	47.8	50.6	50.7	50.8	51.8	52.5	54.4	54.8
GE 4000		33.2	36.3	42.6	45.4	47.5	48.1	50.7	51.2	54.1	54.3	54.4	55.3	56.1	58.0	58.5
GE 3500		34.9	37.9	44.3	47.3	49.4	50.0	52.6	53.1	56.0	56.1	56.3	57.2	58.0	59.9	60.4
GE 3000		39.7	43.3	50.8	53.8	55.9	56.5	59.1	59.6	62.6	62.8	62.9	63.8	64.8	66.7	67.1
GE 2500		42.9	46.7	54.5	57.6	59.7	60.5	63.6	64.1	67.1	67.3	67.4	68.3	69.3	71.2	71.6
GE 2000		44.9	49.1	57.2	60.8	62.9	63.9	67.5	68.0	71.0	71.2	71.5	72.5	73.4	75.4	75.9
GE 1800		45.5	49.6	58.3	61.8	63.9	65.0	68.6	69.0	72.1	72.2	72.6	73.5	74.5	76.5	77.0
GE 1500		46.8	51.3	60.6	64.9	67.4	69.0	72.7	73.2	76.6	76.7	77.1	78.0	79.0	81.0	81.4
GE 1200		49.1	53.8	64.1	69.1	71.9	73.6	78.0	78.5	82.3	82.4	82.7	83.7	84.6	86.6	87.1
GE 1000		50.4	55.4	66.5	72.1	75.2	77.1	81.9	82.4	86.5	86.6	87.0	87.9	88.9	90.9	91.4
GE 900		50.4	55.4	66.9	72.6	75.7	77.9	82.9	83.3	87.6	87.7	88.1	89.0	90.1	92.1	92.6
GE 800		50.5	55.6	67.4	73.0	76.1	78.4	83.9	84.4	89.5	89.7	90.1	91.0	92.1	94.1	94.6
GE 700		50.5	55.6	67.5	73.2	76.2	78.6	84.4	84.9	90.0	90.2	90.5	91.5	92.6	94.6	95.0
GE 600		50.5	55.8	67.8	73.6	76.7	79.1	84.9	85.3	90.8	91.0	91.4	92.3	93.4	95.4	95.9
GE 500		50.5	55.8	68.0	73.9	77.3	79.9	85.8	86.6	92.3	92.6	93.0	94.0	95.0	97.0	97.5
GE 400		50.5	55.8	68.0	73.9	77.3	80.4	87.1	87.9	94.0	94.2	94.7	95.6	96.9	98.9	99.4
GE 300		50.5	55.8	68.0	73.9	77.3	80.4	87.1	87.9	94.1	94.3	94.8	95.7	97.4	99.4	99.9
GE 200		50.5	55.8	68.0	73.9	77.3	80.4	87.1	87.9	94.1	94.3	94.8	95.7	97.4	99.5	100.0
GE 100		50.5	55.8	68.0	73.9	77.3	80.4	87.1	87.9	94.1	94.3	94.8	95.7	97.4	99.5	100.0
GE 0		50.5	55.8	68.0	73.9	77.3	80.4	87.1	87.9	94.1	94.3	94.8	95.7	97.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 446

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: FEB HOURS(LST): 0300-0500

CEILING IN FLEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	18.3	20.7	24.9	26.0	26.9	28.2	30.1	30.7	34.1	34.1	34.1	34.3	34.9	36.3	36.7	
GE 20000	19.5	22.4	26.5	27.7	28.6	29.9	31.8	32.4	36.1	36.1	36.1	36.3	36.9	38.5	38.8	
GE 18000	19.5	22.4	26.5	27.7	28.6	29.9	31.8	32.4	36.1	36.1	36.1	36.3	36.9	38.5	38.8	
GE 16000	19.5	22.4	26.5	27.7	28.6	29.9	31.8	32.4	36.1	36.1	36.1	36.3	36.9	38.5	38.8	
GE 14000	19.5	22.4	26.5	27.7	28.6	29.9	31.8	32.4	36.1	36.1	36.1	36.3	36.9	38.5	38.8	
GE 12000	19.8	22.6	26.7	27.9	28.9	30.2	32.1	32.7	36.3	36.3	36.3	36.6	37.2	39.7	39.1	
GE 10000	20.2	23.2	27.3	28.5	29.5	30.9	32.8	33.4	37.0	37.0	37.0	37.3	37.9	39.4	39.8	
GE 9000	20.6	23.6	27.7	29.1	30.1	31.5	33.5	34.1	37.8	37.8	37.8	38.0	38.6	40.1	40.5	
GE 8000	20.6	23.7	27.9	29.5	30.5	32.0	34.1	34.7	38.5	38.5	38.5	38.7	39.3	40.8	41.2	
GE 7000	20.7	23.8	28.3	29.8	30.9	32.3	34.4	35.0	38.8	38.8	38.8	39.1	39.6	41.2	41.5	
GE 6000	20.8	23.9	28.4	29.9	31.0	32.4	34.6	35.1	38.9	38.9	38.9	39.2	39.8	41.3	41.7	
GE 5000	21.8	24.9	29.3	31.0	32.1	33.5	35.6	36.2	40.2	40.2	40.2	40.5	41.1	42.6	43.0	
GE 4500	24.5	27.7	32.5	34.2	35.3	36.7	38.9	39.5	43.7	43.7	43.7	43.9	44.6	46.2	46.5	
GE 4000	28.4	32.2	37.4	39.1	40.1	41.7	44.1	44.7	49.1	49.1	49.1	49.3	50.1	51.6	52.0	
GE 3500	30.5	34.3	39.8	41.5	42.6	44.1	46.6	47.2	52.0	52.2	52.2	52.4	53.1	54.7	55.0	
GE 3000	35.4	39.4	45.9	47.7	49.0	50.5	53.1	54.0	58.7	58.9	59.1	59.3	60.0	61.5	61.9	
GE 2500	38.8	43.2	49.7	51.5	52.8	54.3	57.0	57.9	62.6	62.8	63.0	63.2	63.9	65.4	65.8	
GE 2000	42.0	46.9	54.2	56.1	57.4	58.9	62.0	62.8	67.6	67.8	67.9	68.2	68.9	70.4	70.8	
GE 1800	42.5	47.6	55.1	57.0	58.3	59.9	63.0	63.8	68.5	68.8	68.8	69.1	69.8	71.4	71.7	
GE 1500	44.5	49.9	58.5	61.3	62.6	64.4	67.7	68.5	73.6	73.8	74.0	74.2	74.9	76.4	76.8	
GE 1200	46.9	52.7	62.1	65.6	67.0	69.0	73.0	73.8	79.2	79.4	79.9	80.1	80.8	82.4	82.7	
GE 1000	47.8	54.0	64.1	68.4	69.9	73.0	77.5	78.7	84.0	84.3	84.7	85.0	85.7	87.2	87.6	
GE 900	47.8	54.3	64.6	68.9	70.4	73.7	78.2	79.4	85.0	85.2	85.7	85.9	86.6	88.2	88.5	
GE 800	48.2	54.8	65.6	69.8	71.4	74.8	79.6	80.8	87.0	87.3	87.8	88.0	88.8	90.3	90.7	
GE 700	48.2	54.6	65.9	70.3	71.8	75.3	80.5	81.7	87.9	88.3	88.6	89.0	89.7	91.2	91.6	
GE 600	48.2	54.6	66.4	70.8	72.3	75.7	81.1	82.4	88.9	89.2	89.7	89.9	90.7	92.2	92.5	
GE 500	48.2	54.8	66.6	71.4	72.9	76.6	82.1	83.4	90.2	90.5	91.0	91.2	92.0	93.5	93.8	
GE 400	48.2	54.8	66.6	71.4	72.9	76.6	82.1	83.4	90.2	90.5	91.0	91.2	92.0	93.5	93.8	
GE 300	48.2	54.8	66.6	71.4	72.9	76.6	82.1	83.4	90.2	90.5	91.0	91.2	92.0	93.5	93.8	
GE 200	48.2	54.8	66.6	71.4	72.9	76.6	82.1	83.4	90.2	90.5	91.0	91.2	92.0	93.5	93.8	
GE 100	48.2	54.8	66.6	71.4	72.9	76.6	82.1	83.4	90.2	90.5	91.0	91.2	92.0	93.5	93.8	
GE 0	48.2	54.8	66.6	71.4	72.9	76.6	82.1	83.4	90.2	90.5	91.0	91.2	92.0	93.5	93.8	

TOTAL NUMBER OF OBSERVATIONS: 845

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-63  
MONTH: FEB HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	14.6	17.1	19.9	20.8	21.0	22.9	24.2	25.3	27.8	27.8	27.8	27.9	27.9	29.4	29.5	
GE 20000	17.1	19.6	22.5	23.4	23.6	25.5	26.8	27.9	30.5	30.5	30.5	30.6	30.6	32.1	32.3	
GE 18000	17.1	19.6	22.5	23.4	23.6	25.5	26.8	27.9	30.5	30.5	30.5	30.6	30.6	32.3	32.4	
GE 16000	17.1	19.6	22.5	23.4	23.6	25.5	26.8	27.9	30.5	30.5	30.5	30.6	30.6	32.3	32.4	
GE 14000	17.1	19.6	22.5	23.4	23.6	25.5	26.8	27.9	30.5	30.5	30.5	30.6	30.6	32.3	32.4	
GE 12000	17.3	19.8	22.8	23.6	23.8	25.7	27.0	28.1	30.7	30.7	30.7	30.8	30.8	32.5	32.6	
GE 10000	17.7	20.2	23.3	24.1	24.3	26.2	27.5	28.6	31.3	31.3	31.3	31.4	31.4	33.1	33.2	
GE 9000	17.7	20.3	23.4	24.6	24.8	26.7	28.0	29.1	31.8	31.8	31.8	31.9	31.9	33.6	33.7	
GE 8000	18.7	21.4	24.8	26.0	26.3	28.2	29.8	30.8	33.6	33.6	33.6	33.8	33.8	35.5	35.6	
GE 7000	19.2	21.8	25.4	26.6	26.9	28.8	30.4	31.4	34.2	34.2	34.2	34.4	34.4	36.1	36.2	
GE 6000	19.2	21.8	25.4	26.6	26.9	28.8	30.4	31.4	34.2	34.2	34.2	34.4	34.4	36.1	36.2	
GE 5000	19.6	22.2	25.7	27.0	27.4	29.5	31.1	32.1	34.9	34.9	34.9	35.1	35.1	36.8	36.9	
GE 4500	21.2	23.8	27.8	29.1	29.4	31.8	33.6	34.6	37.4	37.4	37.4	37.6	37.6	39.3	39.4	
GE 4000	23.7	26.9	31.6	33.1	33.5	36.4	38.2	39.3	42.1	42.1	42.1	42.3	42.3	44.0	44.1	
GE 3500	26.0	29.5	34.4	36.1	36.4	39.5	41.6	42.7	45.6	45.6	45.6	45.8	45.8	47.4	47.6	
GE 3000	30.6	34.8	40.5	42.3	42.7	45.9	48.0	49.5	52.4	52.4	52.7	52.9	52.9	54.6	54.7	
GE 2500	35.8	40.3	46.1	48.0	48.4	51.7	53.9	55.3	58.2	58.2	58.5	58.7	58.7	60.4	60.5	
GE 2000	39.1	44.4	51.2	53.1	53.5	57.1	59.5	61.0	63.9	64.1	64.3	64.5	64.5	66.2	66.3	
GE 1800	40.2	45.8	53.1	55.0	55.4	59.3	61.4	62.9	65.8	66.0	66.2	66.4	66.4	68.1	68.2	
GE 1500	43.7	49.3	57.5	60.3	60.6	64.7	68.0	69.4	72.8	73.0	73.2	73.4	73.4	75.1	75.2	
GE 1200	45.3	51.2	60.4	63.6	64.2	68.8	72.2	73.7	77.8	77.9	78.2	78.4	78.4	80.1	80.2	
GE 1000	46.4	52.9	63.1	66.9	67.6	73.1	76.9	78.4	82.9	83.0	83.3	83.5	83.5	85.2	85.3	
GE 900	47.1	53.9	64.1	68.0	68.8	74.9	78.8	80.3	85.1	85.2	85.4	85.6	85.6	87.3	87.4	
GE 800	47.8	54.6	65.1	69.2	70.0	76.6	81.0	82.7	87.9	88.0	88.3	88.5	88.5	90.2	90.3	
GE 700	47.8	54.6	65.4	69.4	70.2	76.9	81.5	83.2	88.8	89.1	89.3	89.6	89.6	91.2	91.3	
GE 600	47.8	54.6	65.4	69.4	70.2	77.0	82.0	83.6	89.3	89.6	89.8	90.0	90.0	91.7	91.8	
GE 500	47.8	54.6	65.5	69.5	70.3	77.5	82.6	84.3	90.9	91.1	91.3	91.6	91.6	93.2	93.4	
GE 400	47.8	54.6	65.5	69.8	70.6	77.7	82.8	84.6	91.5	91.7	91.9	92.2	92.2	94.2	94.3	
GE 300	47.8	54.6	65.5	69.8	70.6	77.7	82.8	84.6	91.8	92.2	92.5	92.8	93.0	95.1	95.5	
GE 200	47.8	54.6	65.5	69.8	70.6	77.7	82.9	84.7	92.4	92.8	93.2	93.5	94.0	96.6	96.9	
GE 100	47.8	54.6	65.5	69.8	70.6	77.7	82.9	84.7	92.6	93.1	93.6	93.8	94.7	97.4	98.7	
GE 0	47.8	54.6	65.5	69.8	70.6	77.7	82.9	84.7	92.9	93.4	93.8	94.1	95.1	98.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 443

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAUSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: FEB HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	0.8	12.1	15.2	17.5	17.8	19.8	21.0	22.7	24.5	25.2	25.4	25.5	25.5	25.7	25.9	
GE 20000	10.0	13.7	17.2	19.7	19.9	22.2	23.7	25.5	27.5	28.4	28.6	28.7	28.7	28.9	29.3	29.3
GE 18000	10.1	13.9	17.3	19.8	20.0	22.3	23.8	25.6	27.7	28.7	28.8	28.9	29.0	29.3	29.6	29.6
GE 16000	10.1	13.9	17.3	19.8	20.0	22.3	23.8	25.6	27.7	28.7	28.8	28.9	29.0	29.3	29.6	29.6
GE 14000	10.1	13.9	17.3	19.8	20.0	22.3	23.8	25.6	27.7	28.7	28.8	28.9	29.0	29.3	29.6	29.6
GE 12000	10.3	14.1	17.5	20.0	20.3	22.5	24.1	25.8	28.0	28.9	29.0	29.1	29.3	29.5	29.9	
GE 10000	11.1	15.3	18.7	21.2	21.4	23.8	25.6	27.4	29.5	30.5	30.6	30.7	30.8	31.0	31.4	31.4
GE 9000	11.1	15.3	18.7	21.2	21.4	23.8	25.7	27.5	29.6	30.6	30.7	30.8	30.9	31.2	31.5	31.5
GE 8000	12.3	16.8	21.2	23.8	24.1	26.4	28.7	30.5	32.8	33.8	33.9	34.0	34.1	34.4	34.7	34.7
GE 7000	12.7	17.4	22.3	24.9	25.1	27.5	29.7	31.5	33.9	34.8	35.0	35.1	35.2	35.4	35.8	35.8
GE 6000	12.7	17.4	22.3	24.9	25.1	27.5	29.7	31.5	33.9	34.8	35.0	35.1	35.2	35.4	35.8	35.8
GE 5000	13.5	18.2	23.2	25.8	26.1	28.4	30.7	32.5	34.8	35.8	35.9	36.0	36.1	36.4	36.7	36.7
GE 4500	13.7	18.5	23.7	26.7	27.0	29.4	31.6	33.4	35.8	36.7	36.8	37.0	37.1	37.3	37.7	37.7
GE 4000	15.6	20.4	25.8	29.1	29.6	32.2	34.5	36.3	38.7	39.7	39.8	39.9	40.2	40.4	40.8	40.8
GE 3500	17.4	22.4	28.0	31.6	32.2	35.1	37.7	39.6	42.3	43.2	43.4	43.5	43.7	44.0	44.3	44.3
GE 3000	21.1	26.7	33.6	37.9	38.6	41.9	44.7	46.7	50.0	51.1	51.3	51.4	51.7	52.0	52.4	52.4
GE 2500	25.0	30.8	38.4	43.0	43.8	47.3	50.2	52.3	55.7	56.9	57.1	57.2	57.5	57.8	58.2	58.2
GE 2000	27.7	34.5	42.4	47.7	48.6	52.1	55.2	57.2	60.7	61.8	62.1	62.2	62.4	62.8	63.2	63.2
GE 1800	28.3	35.2	43.6	49.2	50.0	53.6	56.6	58.8	62.3	63.5	63.7	63.9	64.1	64.5	64.6	64.6
GE 1500	31.5	38.7	48.7	54.9	55.8	59.6	63.0	65.3	69.4	70.7	71.0	71.1	71.3	71.8	72.2	72.2
GE 1200	33.8	41.8	53.1	60.0	61.6	65.4	69.1	71.7	76.3	77.6	77.8	78.0	78.2	78.7	79.0	79.0
GE 1000	34.8	43.4	55.2	62.6	64.2	68.6	72.9	76.2	81.5	82.8	83.2	83.3	83.5	84.0	84.4	84.4
GE 900	35.2	43.7	55.7	63.6	65.8	70.1	74.6	78.0	83.8	85.1	85.4	85.8	86.0	86.5	86.8	86.8
GE 800	35.5	44.5	56.9	65.2	67.4	72.2	76.8	80.3	86.6	88.2	88.5	89.0	89.3	89.9	90.3	90.3
GE 700	35.5	44.5	57.0	65.6	67.9	72.7	77.8	81.6	88.3	89.9	90.3	90.8	91.2	91.8	92.2	92.2
GE 600	35.5	44.5	57.1	66.1	68.4	73.2	78.4	82.5	89.5	91.6	91.9	92.4	93.0	93.6	94.0	94.0
GE 500	35.5	44.5	57.1	66.1	68.4	73.3	78.6	82.9	90.0	92.2	92.5	93.1	93.8	94.4	94.8	94.8
GE 400	35.5	44.5	57.1	66.2	68.5	73.5	78.7	83.1	90.4	92.5	93.0	93.6	94.5	95.1	95.5	95.5
GE 300	35.5	44.5	57.1	66.2	68.5	73.5	78.7	83.2	90.6	92.8	93.2	93.8	94.8	95.4	96.1	96.1
GE 200	35.5	44.5	57.1	66.2	68.5	73.5	78.8	83.3	91.2	93.6	94.1	94.9	96.3	97.3	98.3	98.3
GE 100	35.5	44.5	57.1	66.2	68.5	73.5	78.8	83.3	91.4	93.7	94.2	95.0	96.8	98.1	100.0	100.0
GE 0	35.5	44.5	57.1	66.2	68.5	73.5	78.8	83.3	91.4	93.7	94.2	95.0	96.8	98.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 844



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: FEB HOURS(LST): 1200-1400

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL		14.8	16.0	20.4	22.7	23.1	24.4	26.1	26.5	27.5	27.5	27.7	27.7	27.7	27.8	27.8	
GE 2000		17.3	18.8	23.8	26.3	26.8	28.3	30.3	30.8	31.8	31.8	32.0	32.0	32.0	32.1	32.1	
GE 1800		17.4	19.0	23.9	26.4	26.9	28.4	30.5	30.9	31.9	31.9	32.1	32.1	32.1	32.2	32.2	
GE 1600		17.4	19.0	23.9	26.4	26.9	28.4	30.5	30.9	31.9	31.9	32.1	32.1	32.1	32.2	32.2	
GE 1400		17.4	19.0	23.9	26.4	26.9	28.4	30.5	30.9	31.9	31.9	32.1	32.1	32.1	32.2	32.2	
GE 1200		17.4	19.0	23.9	26.4	26.9	28.4	30.6	31.0	32.0	32.0	32.2	32.3	32.5	32.6	32.6	
GE 1000		17.8	19.3	24.3	26.8	27.3	28.8	30.9	31.4	32.3	32.3	32.6	32.7	32.8	32.9	32.9	
GE 900		17.9	19.4	24.5	27.1	27.6	29.1	31.3	31.8	32.7	32.7	32.9	33.1	33.2	33.3	33.3	
GE 800		19.9	21.4	26.7	29.6	30.1	31.9	34.0	34.6	35.5	35.5	35.9	36.1	36.4	36.5	36.5	
GE 700		20.4	22.0	27.8	30.9	31.4	33.3	35.4	36.0	37.0	37.0	37.3	37.6	37.8	37.9	37.9	
GE 600		20.5	22.2	28.0	31.0	31.5	33.4	35.5	36.1	37.1	37.1	37.4	37.7	37.9	38.0	38.0	
GE 500		22.2	23.9	30.1	33.4	33.9	35.4	38.0	38.6	39.6	39.6	39.9	40.2	40.4	40.5	40.5	
GE 450		23.9	25.8	32.1	35.4	36.0	37.9	40.2	40.8	41.7	41.7	42.1	42.3	42.5	42.7	42.7	
GE 400		25.7	27.8	34.6	38.4	39.0	41.1	43.4	44.1	45.0	45.0	45.4	45.6	45.9	46.0	46.0	
GE 350		28.1	30.2	37.1	41.0	41.6	43.7	46.0	46.7	47.6	47.6	48.1	48.3	48.6	48.7	48.7	
GE 300		32.5	34.6	42.7	47.4	48.1	50.4	52.7	53.9	55.2	55.5	55.9	56.4	56.6	56.8	56.8	
GE 250		36.0	38.2	46.7	51.7	52.4	55.0	57.3	58.5	60.0	60.1	60.5	61.0	61.3	61.4	61.4	
GE 200		39.9	42.4	51.1	56.0	56.9	59.7	62.1	63.4	65.2	65.5	66.1	66.6	66.8	66.9	66.9	
GE 180		40.9	43.4	52.3	57.3	58.2	61.0	63.5	64.8	66.6	67.1	67.7	68.1	68.4	68.5	68.5	
GE 150		43.5	46.0	56.2	63.2	64.5	67.5	70.3	71.8	73.8	74.4	75.2	75.8	76.2	76.3	76.3	
GE 120		46.9	49.9	61.3	69.7	71.3	74.6	77.5	79.3	81.4	82.0	82.8	83.4	83.8	83.9	83.9	
GE 100		47.3	50.4	62.3	72.4	74.2	77.5	80.6	82.3	85.5	86.1	87.2	87.8	88.2	88.3	88.3	
GE 90		47.7	50.9	63.2	73.5	75.2	78.6	81.6	83.4	86.7	87.3	88.4	89.0	89.3	89.5	89.5	
GE 80		48.2	51.7	64.5	75.1	76.9	80.7	84.0	85.9	89.9	90.5	91.6	92.2	92.5	92.8	92.8	
GE 70		46.2	51.7	64.8	75.8	77.7	81.8	85.2	87.4	92.1	92.7	93.7	94.3	94.7	94.9	94.9	
GE 60		48.2	51.7	64.9	75.9	77.8	81.9	85.5	88.2	93.0	93.7	94.8	95.4	95.7	96.0	96.0	
GE 50		48.2	51.7	64.9	75.9	77.8	81.9	86.0	88.7	93.8	94.9	96.3	96.9	97.3	97.5	97.5	
GE 40		48.2	51.7	64.9	75.9	77.8	81.9	86.1	88.9	94.2	95.4	96.9	97.5	97.9	98.1	98.1	
GE 30		48.2	51.7	64.9	75.9	77.8	81.9	86.1	89.2	94.5	95.9	97.7	98.3	98.8	99.1	99.1	
GE 20		48.2	51.7	64.9	75.9	77.8	81.9	86.1	89.3	95.0	96.4	98.3	98.9	99.5	99.8	99.9	
GE 10		48.2	51.7	64.9	75.9	77.8	81.9	86.1	89.3	95.0	96.4	98.3	98.9	99.5	99.8	100.0	
GE 0		48.2	51.7	64.9	75.9	77.8	81.9	86.1	89.3	95.0	96.4	98.3	98.9	99.5	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 844

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: FEB HOURS(LST): 1500-1700

CEILING IN FLFT	GT 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		21.2	22.8	28.7	30.6	30.6	31.0	31.2	31.4	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
GE 20000		25.9	27.8	34.3	36.4	36.4	36.9	37.1	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 18000		26.2	28.1	34.6	36.8	36.8	37.2	37.5	37.7	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
GE 16000		26.5	28.4	34.9	37.0	37.0	37.5	37.7	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 14000		26.7	28.6	35.1	37.2	37.2	37.7	37.9	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
GE 12000		27.3	29.2	35.8	39.1	39.1	38.5	38.8	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 10000		27.8	29.8	36.5	38.8	38.8	39.2	39.5	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 9000		27.9	29.9	36.8	39.2	39.2	39.8	40.1	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 8000		29.9	32.0	39.1	41.8	41.8	42.4	42.7	42.9	43.1	43.1	43.3	43.3	43.3	43.3	43.3	43.3
GE 7000		30.6	32.9	40.4	43.1	43.1	43.7	44.0	44.2	44.6	44.6	44.7	44.7	44.7	44.7	44.7	44.7
GE 6000		30.9	33.2	40.8	43.5	43.5	44.1	44.3	44.6	44.9	44.9	45.0	45.0	45.0	45.0	45.0	45.0
GE 5000		32.0	34.5	42.2	44.9	44.9	45.5	45.7	46.0	46.3	46.3	46.5	46.5	46.5	46.5	46.5	46.5
GE 4500		33.1	35.6	43.3	46.0	46.0	46.6	46.8	47.0	47.5	47.5	47.6	47.6	47.6	47.6	47.6	47.6
GE 4000		34.5	37.0	45.0	47.9	47.9	48.5	48.7	48.9	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5
GE 3500		38.3	40.9	49.2	52.1	52.1	52.7	53.0	53.2	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8
GE 3000		44.4	47.6	57.0	60.9	60.9	61.8	62.1	62.6	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7
GE 2500		47.0	51.2	61.1	65.1	65.1	66.1	66.3	66.9	67.7	67.7	68.0	68.0	68.0	68.0	68.0	68.0
GE 2000		49.8	54.0	64.7	69.1	69.1	70.3	70.7	71.3	72.2	72.2	72.5	72.5	72.5	72.5	72.5	72.5
GE 1800		50.6	55.3	66.1	71.0	71.0	72.2	72.6	73.2	74.1	74.1	74.3	74.3	74.3	74.3	74.3	74.3
GE 1500		53.3	58.2	70.9	76.4	76.4	78.5	79.4	80.0	81.1	81.2	81.6	81.6	81.7	81.7	81.7	81.7
GE 1200		55.0	60.0	74.1	81.8	81.8	84.6	85.8	86.4	87.7	87.9	88.3	88.3	88.4	88.4	88.4	88.4
GE 1000		56.1	61.5	76.0	85.2	85.2	88.9	90.1	91.0	92.7	92.9	93.4	93.4	93.5	93.5	93.5	93.5
GE 900		56.4	61.7	76.2	85.7	85.7	89.4	90.5	91.5	93.3	93.5	94.0	94.0	94.1	94.1	94.1	94.1
GE 800		56.5	61.9	76.8	87.0	87.2	90.7	91.8	92.8	95.2	95.4	95.9	95.9	96.0	96.1	96.1	96.1
GE 700		56.5	62.1	77.1	87.6	88.1	91.6	92.8	94.1	96.9	97.3	97.8	97.8	97.9	98.0	98.0	98.0
GE 600		56.5	62.1	77.1	87.8	88.4	92.0	93.1	94.4	97.4	97.8	98.3	98.5	98.6	98.7	98.7	98.7
GE 500		56.5	62.1	77.1	87.8	88.4	92.0	93.4	94.7	98.0	98.6	99.2	99.3	99.4	99.5	99.5	99.5
GE 400		56.5	62.1	77.1	87.8	88.4	92.0	93.4	94.8	98.3	98.9	99.5	99.6	99.8	99.9	99.9	99.9
GE 300		56.5	62.1	77.1	87.8	88.4	92.0	93.4	94.8	98.3	99.1	99.6	99.8	99.9	100.0	100.0	100.0
GE 200		56.5	62.1	77.1	87.8	88.4	92.0	93.4	94.8	98.3	99.1	99.6	99.8	99.9	100.0	100.0	100.0
GE 100		56.5	62.1	77.1	87.8	88.4	92.0	93.4	94.8	98.3	99.1	99.6	99.8	99.9	100.0	100.0	100.0
GE 0		56.5	62.1	77.1	87.8	88.4	92.0	93.4	94.8	98.3	99.1	99.6	99.8	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-81  
 MONTH: FEB HOURS(IST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	21.7	23.4	28.5	31.0	31.3	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GE 2000	26.5	28.5	34.8	37.6	38.1	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
GE 1800	26.7	28.7	35.0	37.8	38.3	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
GE 1600	27.0	29.0	35.2	38.1	38.5	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 1400	27.3	29.3	35.6	39.4	36.9	40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
GE 1200	27.8	29.8	36.1	38.9	39.4	40.4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
GE 1000	28.8	30.9	37.4	40.2	40.7	41.7	42.0	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
GE 900	29.2	31.2	37.9	40.9	41.4	42.4	42.7	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 800	31.9	34.0	41.0	44.6	45.0	46.1	46.3	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
GE 700	32.9	35.2	42.4	46.0	46.5	47.5	47.8	47.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
GE 600	33.0	35.3	42.6	46.1	46.6	47.6	47.9	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 500	35.7	38.4	45.7	49.5	50.0	51.1	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 450	37.1	39.4	47.3	51.2	51.7	52.7	53.0	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 400	38.3	41.1	48.8	53.1	53.5	54.7	55.0	55.1	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 350	40.4	43.7	51.8	56.1	56.6	57.8	58.2	58.3	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 300	44.9	49.1	58.2	63.4	63.9	65.2	66.0	66.1	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 250	48.6	53.2	63.1	68.7	69.3	70.7	71.4	71.5	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 200	50.9	55.7	66.5	72.7	73.3	75.3	76.5	76.6	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 180	52.2	57.1	68.4	75.1	75.7	78.1	79.3	79.4	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 150	54.5	59.6	72.0	79.3	79.9	82.9	84.0	84.2	85.1	85.2	85.3	85.3	85.3	85.6	85.6	85.6
GE 120	55.2	60.5	73.3	81.9	83.1	86.4	87.6	87.9	89.4	89.7	89.8	89.8	89.8	90.1	90.1	90.1
GE 100	55.8	61.7	74.6	83.9	85.1	89.0	90.5	90.9	92.6	92.9	93.0	93.0	93.3	93.3	93.3	93.3
GE 90	56.0	61.9	75.1	85.1	86.3	90.2	91.7	92.3	94.0	94.3	94.4	94.4	94.7	94.7	94.7	94.7
GE 80	56.1	62.2	75.8	86.2	87.6	91.6	93.1	94.0	96.1	96.5	96.6	96.6	96.8	96.8	96.8	96.8
GE 70	56.1	62.2	75.8	86.5	88.3	92.3	93.9	94.7	96.8	97.2	97.4	97.5	97.8	97.8	97.8	97.8
GE 60	56.1	62.2	75.8	86.5	88.3	92.3	94.0	95.0	97.3	97.6	98.0	98.1	98.3	98.3	98.3	98.3
GE 50	56.1	62.2	75.8	86.5	88.3	92.3	94.3	95.4	98.3	98.7	99.1	99.2	99.4	99.4	99.4	99.4
GE 40	56.1	62.2	75.8	86.5	88.3	92.3	94.3	95.4	98.3	98.7	99.2	99.3	99.5	99.5	99.5	99.5
GE 30	56.1	62.2	75.8	86.5	88.3	92.3	94.3	95.4	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9
GE 20	56.1	62.2	75.8	86.5	88.3	92.3	94.3	95.4	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9
GE 10	56.1	62.2	75.8	86.5	88.3	92.3	94.3	95.4	98.5	99.1	99.5	99.6	100.0	100.0	100.0	100.0
GE 0	56.1	62.2	75.8	86.5	88.3	92.3	94.3	95.4	98.5	99.1	99.5	99.6	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: FEB HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 9	GE 5	GE 4	GE 0
NO CEIL		24.8	26.2	31.6	34.4	35.0	36.4	37.8	38.2	38.8	38.9	39.1	39.4	39.7	39.7	40.0
GE 10000	27.2	28.8	34.3	37.2	37.9	39.5	41.1	41.5	42.1	42.2	42.4	42.7	43.0	43.1	43.4	
GE 18000	27.2	28.8	34.3	37.2	37.9	39.5	41.1	41.5	42.1	42.2	42.4	42.7	43.0	43.1	43.4	
GE 16000	27.3	29.0	34.4	37.4	38.1	39.6	41.3	41.6	42.2	42.3	42.6	42.8	43.1	43.3	43.5	
GE 14000	27.5	29.2	34.6	37.6	38.3	39.8	41.5	41.8	42.4	42.6	42.8	43.0	43.4	43.5	43.7	
GE 12000	27.8	29.4	34.9	37.8	38.5	40.1	41.7	42.1	42.7	42.8	43.0	43.3	43.6	43.7	44.0	
GE 10000	28.5	30.1	35.6	38.5	39.4	41.0	42.7	43.0	43.6	43.7	44.0	44.2	44.6	44.7	44.9	
GE 9000	28.8	30.6	36.3	39.2	40.2	41.8	43.5	43.9	44.4	44.6	44.8	45.0	45.4	45.5	45.7	
GE 8000	30.0	32.0	37.7	40.8	41.7	43.4	45.3	45.6	46.2	46.3	46.6	46.8	47.2	47.3	47.5	
GE 7000	31.0	33.0	38.7	41.7	42.7	44.3	46.2	46.6	47.2	47.3	47.5	47.8	48.1	48.2	48.5	
GE 6000	31.0	33.0	38.7	41.7	42.7	44.3	46.2	46.6	47.2	47.3	47.5	47.8	48.1	48.2	48.5	
GE 5000	32.5	34.5	40.3	44.0	44.9	46.6	48.5	48.8	49.5	49.6	49.9	50.1	50.5	50.6	50.8	
GE 4500	34.5	36.5	42.7	46.3	47.3	49.1	51.1	51.5	52.2	52.4	52.6	52.8	53.2	53.3	53.5	
GE 4000	37.6	40.0	46.2	49.9	50.8	52.7	54.7	55.3	56.0	56.1	56.4	56.6	57.0	57.1	57.3	
GE 3500	40.1	42.7	50.0	53.8	54.7	56.6	58.6	59.2	59.9	60.2	60.4	60.6	61.0	61.1	61.3	
GE 3000	45.0	48.3	55.9	59.7	60.6	62.8	64.9	65.5	66.3	66.5	66.8	67.0	67.4	67.5	67.7	
GE 2500	46.5	50.5	59.1	62.9	63.9	66.3	68.6	69.1	70.1	70.3	70.6	70.8	71.2	71.3	71.5	
GE 2000	48.1	52.6	61.9	66.5	67.6	70.4	73.4	74.0	75.4	75.7	75.9	76.1	76.5	76.8	77.1	
GE 1800	49.1	53.5	62.9	68.0	69.0	71.9	74.8	75.4	76.8	77.1	77.3	77.5	77.9	78.3	78.5	
GE 1500	51.5	56.3	66.8	72.7	73.9	77.2	80.4	81.0	82.7	83.1	83.6	83.8	84.2	84.5	84.8	
GE 1200	53.1	57.9	68.7	75.3	77.3	81.0	84.8	85.3	87.2	87.6	88.1	88.3	88.7	89.0	89.2	
GE 1000	53.9	58.9	69.9	76.8	79.3	83.1	87.8	88.4	90.5	90.9	91.4	91.6	92.0	92.3	92.6	
GE 900	53.9	58.9	70.2	77.4	79.9	83.7	88.4	89.0	91.3	91.6	92.1	92.3	92.7	93.0	93.3	
GE 800	54.3	59.3	71.0	78.3	80.9	84.6	89.7	90.3	92.9	93.3	93.7	94.0	94.3	94.7	94.9	
GE 700	54.3	59.5	71.3	78.7	81.8	85.9	91.0	91.6	94.6	94.9	95.5	95.7	96.1	96.5	96.7	
GE 600	54.3	59.5	71.4	79.1	82.2	86.5	91.8	92.4	96.0	96.3	96.9	97.2	97.5	97.9	98.1	
GE 500	54.3	59.5	71.4	79.1	82.3	86.9	92.2	92.9	96.8	97.2	98.0	98.2	98.6	98.9	99.2	
GE 400	54.3	59.5	71.4	79.1	82.3	86.9	92.3	93.0	97.3	97.6	98.5	98.7	99.1	99.4	99.6	
GE 300	54.3	59.5	71.4	79.1	82.3	86.9	92.3	93.0	97.4	97.8	98.6	98.8	99.2	99.5	99.8	
GE 200	54.3	59.5	71.4	79.1	82.3	86.9	92.3	93.0	97.4	97.8	98.6	98.8	99.2	99.5	99.8	
GE 100	54.3	59.5	71.4	79.1	82.3	86.9	92.3	93.0	97.4	97.8	98.6	98.8	99.2	99.5	100.0	
GE 01	54.3	59.5	71.4	79.1	82.3	86.9	92.3	93.0	97.4	97.8	98.6	98.8	99.2	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: FEB HOURS(IST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 70	GE 80	GE 90	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		18.2	20.3	24.7	26.8	27.3	28.5	29.7	30.3	31.8	31.9	32.0	32.2	32.4	33.0	33.2
GE 20000		20.8	23.2	28.0	30.1	30.8	32.1	33.4	34.0	35.5	35.7	35.8	36.0	36.2	36.8	37.1
GE 18000		20.9	23.3	28.1	30.3	30.9	32.2	33.5	34.1	35.7	35.9	35.9	36.1	36.3	37.0	37.2
GE 16000		20.9	23.3	28.1	30.3	30.9	32.2	33.6	34.2	35.7	35.9	36.0	36.2	36.4	37.1	37.3
GE 14000		21.1	23.4	28.2	30.4	31.0	32.3	33.7	34.3	35.8	36.0	36.1	36.3	36.5	37.2	37.4
GE 12000		21.3	23.7	28.5	30.7	31.3	32.6	34.0	34.6	36.1	36.3	36.4	36.6	36.8	37.5	37.7
GE 10000		21.9	24.4	29.2	31.4	32.1	33.5	34.8	35.5	37.0	37.2	37.3	37.5	37.7	38.4	38.6
GE 9000		22.1	24.6	29.6	31.9	32.6	34.0	35.4	36.1	37.6	37.8	37.9	38.1	38.3	39.0	39.2
GE 8000		23.5	26.2	31.5	34.0	34.7	36.1	37.7	38.4	40.0	40.2	40.3	40.5	40.8	41.5	41.7
GE 7000		24.1	26.8	32.4	34.9	35.6	37.0	38.6	39.3	40.9	41.1	41.2	41.5	41.7	42.4	42.6
GE 6000		24.1	26.9	32.4	35.0	35.7	37.1	38.7	39.4	41.0	41.2	41.3	41.6	41.8	42.5	42.7
GE 5000		25.5	28.3	34.0	36.7	37.4	38.9	40.5	41.1	42.9	43.0	43.1	43.4	43.6	44.3	44.5
GE 4500		27.3	30.1	36.1	38.9	39.6	41.1	42.8	43.5	45.3	45.4	45.5	45.8	46.1	46.8	47.0
GE 4000		29.6	32.7	39.0	42.0	42.8	44.4	46.2	46.9	48.8	48.9	49.0	49.3	49.6	50.3	50.5
GE 3500		32.0	35.2	41.8	45.0	45.7	47.5	49.3	50.0	52.0	52.2	52.3	52.6	52.9	53.6	53.7
GE 3000		36.7	40.5	48.1	51.6	52.5	54.4	56.3	57.2	59.4	59.7	59.9	60.1	60.5	61.2	61.4
GE 2500		40.1	44.3	52.4	56.1	56.9	59.0	61.1	62.0	64.2	64.4	64.6	64.9	65.2	65.9	66.1
GE 2000		42.8	47.4	56.2	60.3	61.2	63.5	65.9	66.8	69.1	69.4	69.7	70.0	70.3	71.0	71.2
GE 1800		43.7	48.4	57.5	61.8	62.7	65.1	67.5	68.4	70.8	71.1	71.3	71.6	71.9	72.7	72.9
GE 1500		46.2	51.2	61.4	66.6	67.6	70.5	73.2	74.2	76.9	77.3	77.6	77.9	78.3	79.1	79.2
GE 1200		48.2	53.5	64.6	70.9	72.3	75.4	78.5	79.6	82.7	83.1	83.5	83.8	84.1	84.9	85.1
GE 1000		49.1	54.8	66.5	73.6	75.1	78.8	82.3	83.6	87.0	87.5	87.9	88.2	88.6	89.3	89.5
GE 900		49.3	55.1	67.0	74.3	76.0	79.8	83.4	84.7	88.3	88.7	89.2	89.5	89.9	90.7	90.9
GE 800		49.6	55.6	67.9	75.5	77.2	81.2	85.0	86.4	90.6	91.1	91.6	91.9	92.3	93.1	93.3
GE 700		49.6	55.6	68.1	75.9	77.8	81.9	85.9	87.4	91.9	92.4	92.9	93.3	93.7	94.5	94.7
GE 600		49.6	55.6	68.2	76.2	78.0	82.2	86.4	88.0	92.8	93.4	93.9	94.2	94.7	95.5	95.7
GE 500		49.6	55.6	68.3	76.3	78.2	82.5	86.9	88.6	93.8	94.5	95.1	95.4	95.9	96.7	96.9
GE 400		49.6	55.6	68.3	76.3	78.3	82.7	87.2	89.0	94.4	95.1	95.7	96.1	96.6	97.5	97.7
GE 300		49.6	55.6	68.3	76.3	78.3	82.7	87.2	89.1	94.7	95.4	96.1	96.5	97.2	98.0	98.3
GE 200		49.6	55.6	68.3	76.3	78.3	82.7	87.3	89.2	95.0	95.8	96.5	96.9	97.7	98.7	99.1
GE 100		49.6	55.6	68.3	76.3	78.3	82.7	87.3	89.2	95.1	95.9	96.6	97.1	98.0	99.0	99.7
GE 0		49.6	55.6	68.3	76.3	76.3	82.7	87.3	89.2	95.1	95.9	96.7	97.1	98.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 6760

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAR HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.0	28.4	30.9	32.2	32.3	32.8	33.4	33.8	34.5	34.6	34.9	35.8	36.5	36.7	37.2
GE 20000		31.8	33.4	36.2	37.7	38.1	38.9	39.8	40.2	41.2	41.3	41.6	42.5	43.1	43.3	43.9
GE 18000		31.8	33.4	36.3	37.8	38.2	39.0	39.9	40.3	41.3	41.4	41.7	42.6	43.2	43.4	44.0
GE 16000		31.8	33.4	36.3	37.8	38.2	39.0	39.9	40.3	41.3	41.4	41.7	42.6	43.2	43.4	44.0
GE 14000		31.8	33.4	36.3	37.8	38.2	39.0	39.9	40.3	41.3	41.4	41.7	42.6	43.2	43.4	44.0
GE 12000		31.8	33.4	36.3	37.8	38.2	39.0	39.9	40.3	41.6	41.7	42.0	42.9	43.5	43.8	44.3
GE 10000		33.9	35.7	38.7	40.2	40.5	41.4	42.4	42.8	44.2	44.3	44.6	45.5	46.1	46.3	46.9
GE 9000		34.3	36.2	39.4	40.9	41.2	42.0	43.0	43.4	44.8	44.9	45.3	46.1	46.8	47.0	47.5
GE 8000		36.0	38.3	41.7	43.2	43.5	44.4	45.4	45.8	47.2	47.3	47.6	48.5	49.1	49.4	49.9
GE 7000		36.6	38.8	42.3	43.8	44.1	44.9	45.9	46.3	47.7	47.8	48.2	49.0	49.7	49.9	50.4
GE 6000		36.8	39.0	42.5	44.0	44.3	45.2	46.1	46.6	48.0	48.1	48.4	49.2	49.9	50.1	50.6
GE 5000		38.5	40.9	44.6	46.1	46.5	47.4	48.4	48.8	50.2	50.3	50.6	51.5	52.2	52.4	52.9
GE 4500		43.1	46.0	50.8	52.4	52.7	53.9	54.9	55.4	56.8	56.9	57.2	58.1	58.7	58.9	59.5
GE 4000		47.5	50.5	55.6	57.3	57.6	59.0	60.4	60.9	62.3	62.4	62.7	63.5	64.2	64.4	64.9
GE 3500		51.9	55.2	60.4	62.5	62.8	64.2	65.6	66.0	67.5	67.6	68.0	68.8	69.5	69.7	70.2
GE 3000		56.9	60.3	66.6	68.6	69.0	70.4	71.9	72.4	73.9	74.0	74.3	75.2	75.8	76.0	76.6
GE 2500		59.9	63.4	70.4	72.5	72.9	74.3	75.8	76.3	77.8	78.0	78.3	79.1	79.8	80.0	80.5
GE 2000		62.9	66.5	74.7	77.1	77.5	78.9	80.4	81.1	82.7	82.8	83.3	84.2	84.8	85.1	85.6
GE 1800		63.3	66.9	75.2	77.5	78.2	79.6	81.1	81.7	83.3	83.4	84.0	84.8	85.5	85.7	86.2
GE 1500		66.1	70.1	79.0	81.4	82.0	83.4	84.9	85.9	87.5	87.6	88.2	89.0	89.7	89.9	90.4
GE 1200		68.3	72.4	81.6	84.0	84.6	86.0	87.6	88.9	90.5	90.6	91.2	92.0	92.7	92.9	93.4
GE 1000		70.2	74.4	84.2	86.8	87.5	88.9	90.8	91.9	93.5	93.7	94.2	95.1	95.7	96.1	96.7
GE 900		70.6	74.8	84.6	87.3	88.1	89.5	91.3	92.5	94.1	94.2	94.7	95.6	96.2	96.7	97.2
GE 800		70.6	74.8	84.7	87.5	88.3	89.9	91.8	93.0	94.6	94.7	95.3	96.1	96.8	97.2	97.7
GE 700		70.6	74.8	84.7	87.5	88.3	89.9	91.9	93.2	94.9	95.1	95.6	96.5	97.1	97.5	98.1
GE 600		70.6	74.9	84.8	87.6	88.4	90.0	92.0	93.3	95.1	95.2	95.7	96.6	97.2	97.6	98.2
GE 500		70.8	75.1	84.9	87.7	88.5	90.1	92.4	93.7	95.5	95.6	96.1	97.0	97.6	98.1	98.6
GE 400		70.8	75.1	84.9	87.7	88.5	90.1	92.5	93.8	95.6	95.7	96.2	97.1	97.7	98.2	98.7
GE 300		70.8	75.2	85.1	87.8	88.6	90.2	93.1	94.5	96.8	96.9	97.4	98.3	98.9	99.4	99.9
GE 200		70.8	75.2	85.1	87.8	88.6	90.2	93.1	94.8	96.8	96.9	97.4	98.3	98.9	99.4	99.9
GE 100		70.8	75.2	85.1	87.8	88.6	90.2	93.1	94.8	96.8	96.9	97.4	98.3	99.0	99.5	100.0
GE 0		70.8	75.2	85.1	87.8	88.6	90.2	93.1	94.8	96.8	96.9	97.4	98.3	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAR HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		24.1	25.3	26.7	27.7	27.8	28.5	28.7	29.0	29.8	29.8	30.0	30.9	31.7	32.2	33.0
GE 20000		28.6	29.9	31.6	32.9	33.2	34.3	34.6	35.3	36.0	36.0	36.2	37.1	38.1	38.5	39.4
GE 18000		28.6	29.9	31.6	32.9	33.2	34.3	34.6	35.3	36.0	36.0	36.2	37.1	38.1	38.5	39.4
GE 16000		28.6	29.9	31.6	32.9	33.2	34.3	34.6	35.3	36.0	36.0	36.2	37.1	38.1	38.5	39.4
GE 14000		28.6	29.9	31.6	32.9	33.2	34.3	34.6	35.3	36.0	36.0	36.2	37.1	38.1	38.5	39.4
GE 12000		28.6	30.0	31.7	33.0	33.3	34.4	34.7	35.4	36.1	36.1	36.3	37.2	38.2	38.6	39.5
GE 10000		29.1	30.5	32.3	33.5	33.9	34.9	35.3	35.9	36.9	36.9	37.1	38.0	39.0	39.6	40.4
GE 9000		29.2	30.6	32.4	33.7	34.0	35.1	35.4	36.0	37.0	37.0	37.2	38.1	39.1	39.7	40.5
GE 8000		30.8	32.2	33.9	35.2	35.6	36.7	37.1	37.7	38.9	38.9	39.1	40.0	41.2	41.7	42.8
GE 7000		31.6	33.0	34.7	36.0	36.5	37.5	38.1	38.7	39.9	39.9	40.1	41.0	42.2	42.7	43.8
GE 6000		31.6	33.0	34.7	36.0	36.5	37.5	38.2	38.8	40.0	40.0	40.2	41.1	42.3	42.8	43.9
GE 5000		33.7	35.1	37.3	38.7	39.1	40.5	41.2	41.8	43.0	43.0	43.2	44.1	45.3	45.8	46.9
GE 4500		37.8	39.4	42.6	44.4	44.9	46.7	47.3	48.0	49.2	49.2	49.5	50.3	51.5	52.0	53.1
GE 4000		41.9	43.5	46.9	48.8	49.4	51.1	51.9	52.8	54.1	54.1	54.3	55.2	56.3	56.9	58.0
GE 3500		44.8	46.7	50.0	52.0	52.6	54.3	55.2	56.0	57.3	57.3	57.5	58.6	59.8	60.4	61.5
GE 3000		49.8	52.4	56.9	59.4	59.9	61.6	62.8	63.8	65.1	65.1	65.4	66.6	67.7	68.4	69.5
GE 2500		53.1	55.7	60.9	63.7	64.5	66.3	67.5	68.5	69.8	69.8	70.1	71.3	72.5	73.1	74.2
GE 2000		56.6	59.4	65.1	68.2	69.1	71.5	72.7	73.7	75.2	75.2	75.5	76.8	78.0	78.6	79.7
GE 1800		57.3	60.1	65.8	68.9	69.9	72.3	73.5	74.5	76.0	76.0	76.3	77.6	78.8	79.5	80.5
GE 1500		60.8	63.9	70.4	74.0	74.9	77.3	78.6	79.7	81.3	81.3	81.6	82.9	84.1	84.7	85.8
GE 1200		65.1	68.4	74.9	78.7	79.7	82.0	83.4	84.5	86.1	86.1	86.5	87.7	88.9	89.6	90.6
GE 1000		66.7	70.1	77.3	81.6	82.7	85.4	86.9	88.1	89.7	89.7	90.0	91.1	92.5	93.1	94.5
GE 900		67.0	70.4	77.6	82.2	83.3	86.1	87.7	88.9	90.5	90.5	90.9	92.2	93.3	94.0	95.4
GE 800		67.2	70.6	77.8	82.7	83.9	87.0	88.7	89.9	91.5	91.5	91.8	93.1	94.3	94.9	96.3
GE 700		67.2	70.6	78.1	82.9	84.1	87.3	89.2	90.8	92.4	92.4	92.7	94.0	95.2	95.8	97.2
GE 600		67.2	70.6	78.1	82.9	84.1	87.5	89.5	91.0	92.6	92.6	92.9	94.2	95.5	96.1	97.5
GE 500		67.2	70.6	78.1	82.9	84.1	87.5	89.5	91.0	92.6	92.6	92.9	94.2	95.7	96.3	97.7
GE 400		67.2	70.6	78.1	82.9	84.1	87.5	89.7	91.2	92.8	92.8	93.1	94.4	95.9	96.6	98.0
GE 300		67.2	70.6	78.1	82.9	84.1	87.5	90.2	91.7	93.3	93.3	93.7	94.9	96.5	97.1	98.8
GE 200		67.2	70.6	78.1	82.9	84.1	87.5	90.2	91.7	93.3	93.3	93.7	95.3	96.9	97.8	99.6
GE 100		67.2	70.6	78.1	82.9	84.1	87.5	90.2	91.7	93.3	93.3	93.7	95.3	96.9	98.0	100.0
GE 0		67.2	70.6	78.1	82.9	84.1	87.5	90.2	91.7	93.3	93.3	93.7	95.3	96.9	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAR HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		17.6	19.9	21.7	22.4	22.5	23.2	24.6	24.8	25.6	25.7	25.7	26.2	26.7	27.4	28.0
GE 20000		20.8	23.0	24.9	25.6	25.8	27.2	28.8	29.0	30.1	30.5	30.6	31.2	31.7	32.6	33.1
GE 18000		20.8	23.0	24.9	25.6	25.8	27.2	28.9	29.1	30.2	30.6	30.8	31.3	31.8	32.7	33.2
GE 16000		20.8	23.0	24.9	25.6	25.8	27.2	28.9	29.1	30.2	30.6	30.8	31.3	31.8	32.7	33.2
GE 14000		20.8	23.0	24.9	25.6	25.8	27.2	28.9	29.1	30.2	30.6	30.8	31.3	31.8	32.7	33.2
GE 12000		21.2	23.4	25.4	26.0	26.2	27.6	29.4	29.6	30.6	31.1	31.2	31.7	32.3	33.1	33.7
GE 10000		21.7	24.1	26.0	26.7	26.9	28.4	30.1	30.3	31.4	31.8	31.9	32.5	33.0	34.1	34.6
GE 9000		22.0	24.5	26.5	27.1	27.3	28.8	30.5	30.9	31.9	32.4	32.5	33.0	33.5	34.6	35.2
GE 8000		23.4	25.9	28.2	28.8	29.0	30.5	32.4	33.0	34.3	34.7	34.8	35.5	36.0	37.2	37.7
GE 7000		23.9	26.3	28.7	29.4	29.6	31.2	33.1	33.8	35.1	35.5	35.6	36.3	36.9	38.1	38.6
GE 6000		24.2	26.7	29.0	29.7	29.9	31.6	33.5	34.2	35.5	35.9	36.0	36.8	37.3	38.5	39.0
GE 5000		26.8	29.4	31.8	32.7	32.9	34.6	36.6	37.3	38.6	39.0	39.2	40.2	41.1	42.3	42.8
GE 4500		30.0	32.8	35.7	36.7	36.9	38.9	40.9	42.0	43.4	43.9	44.1	45.1	46.1	47.5	48.1
GE 4000		34.1	37.4	40.8	41.9	42.5	44.6	46.9	48.1	49.7	50.1	50.3	51.3	52.5	53.9	54.4
GE 3500		36.9	40.5	44.0	45.2	45.7	47.8	50.1	51.3	53.0	53.4	53.7	54.6	55.8	57.2	57.7
GE 3000		40.6	44.4	48.5	49.7	50.2	52.4	54.6	55.8	58.1	58.5	58.7	59.7	60.9	62.3	62.8
GE 2500		43.7	47.5	52.4	54.1	54.7	57.0	59.4	60.5	62.9	63.3	63.5	64.5	65.7	67.1	67.6
GE 2000		49.1	53.0	58.7	60.4	61.4	64.5	67.0	68.3	71.0	71.4	71.6	72.6	73.8	75.2	75.7
GE 1800		50.3	54.2	59.9	61.6	62.6	65.7	68.2	69.5	72.3	72.7	72.9	73.9	75.1	76.5	77.0
GE 1500		53.4	58.1	64.8	66.8	67.7	71.3	73.9	75.2	78.2	78.6	78.8	79.8	81.1	82.5	83.0
GE 1200		56.6	61.4	68.2	70.2	71.2	74.8	77.5	78.8	81.9	82.4	82.6	83.5	84.8	86.2	86.8
GE 1000		58.5	63.8	71.4	73.7	74.6	78.4	81.2	82.7	85.9	86.3	86.6	87.5	88.8	90.2	90.8
GE 900		58.9	64.2	71.8	74.2	75.2	78.9	81.7	83.2	86.5	86.9	87.2	88.2	89.5	90.9	91.4
GE 800		59.5	64.8	72.6	75.3	76.2	80.3	83.1	84.6	88.1	88.5	88.8	89.8	91.1	92.5	93.0
GE 700		59.6	65.1	73.2	75.9	76.9	81.3	84.4	85.9	89.4	89.8	90.1	91.2	92.5	93.9	94.4
GE 600		59.6	65.1	73.3	76.0	77.1	81.7	84.9	86.6	90.0	90.4	90.8	91.8	93.1	94.5	95.1
GE 500		59.6	65.1	73.3	76.0	77.1	81.8	85.4	87.0	90.4	90.9	91.5	92.9	94.2	95.6	96.1
GE 400		59.6	65.1	73.3	76.0	77.1	81.8	85.5	87.1	90.5	91.0	91.6	93.0	94.3	95.7	96.2
GE 300		59.6	65.1	73.3	76.0	77.1	81.8	85.5	87.1	90.5	91.2	91.8	93.5	94.8	96.2	97.3
GE 200		59.6	65.1	73.3	76.0	77.1	81.8	85.5	87.1	90.5	91.2	91.9	93.8	95.2	97.5	99.2
GE 100		59.6	65.1	73.3	76.0	77.1	81.8	85.5	87.1	90.5	91.2	91.9	93.8	95.2	97.6	99.9
GE NI		59.6	65.1	73.3	76.0	77.1	81.8	85.5	87.1	90.5	91.2	91.9	93.9	95.3	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAR HOURS(IST): 0900-1100

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		11.2	12.6	15.3	17.9	18.2	18.9	19.8	20.5	21.2	21.2	21.4	21.6	21.9	22.0	22.3
GE 20000		14.9	17.1	20.7	23.6	23.9	25.2	26.5	27.6	28.6	29.6	29.2	29.5	29.8	29.9	30.2
GE 18000		15.0	17.2	20.8	23.7	24.0	25.4	26.7	27.8	28.8	28.8	29.4	29.7	30.0	30.1	30.5
GE 16000		15.0	17.2	20.8	23.7	24.0	25.4	26.7	27.8	28.8	28.8	29.4	29.7	30.0	30.1	30.5
GE 14000		15.4	17.7	21.2	24.1	24.4	25.8	27.1	28.2	29.3	29.3	29.8	30.1	30.5	30.6	30.9
GE 12000		15.5	17.8	21.3	24.2	24.5	26.0	27.4	28.5	29.6	29.6	30.1	30.5	30.8	30.9	31.2
GE 10000		17.5	20.2	23.8	26.8	27.1	28.6	30.0	31.2	32.3	32.3	32.6	33.2	33.5	33.6	33.9
GE 9000		18.1	21.0	24.5	27.6	27.9	29.5	30.9	32.2	33.4	33.4	33.9	34.2	34.7	34.8	35.1
GE 8000		19.3	22.4	26.4	29.5	30.0	31.6	33.2	34.7	36.0	36.0	36.5	36.9	37.4	37.5	37.8
GE 7000		20.3	23.5	27.7	30.8	31.3	33.0	34.8	36.4	37.9	37.9	38.4	38.9	39.3	39.4	39.7
GE 6000		20.8	23.9	28.2	31.3	31.9	33.6	35.3	36.9	38.4	38.4	39.0	39.4	39.8	39.9	40.3
GE 5000		21.7	25.0	29.5	32.6	33.2	35.0	36.9	38.5	40.3	40.4	40.9	41.3	41.8	41.9	42.2
GE 4500		24.4	27.9	32.6	35.8	36.4	38.3	40.4	42.2	44.1	44.2	44.9	45.3	46.0	46.2	46.7
GE 4000		26.2	29.9	35.1	38.3	38.9	40.9	43.1	44.9	46.9	47.4	48.1	48.5	49.2	49.4	49.9
GE 3500		29.5	34.0	39.3	42.5	43.1	45.1	47.4	49.3	51.6	52.0	52.7	53.2	53.8	54.0	54.6
GE 3000		34.1	39.4	45.4	48.9	49.4	51.6	54.0	56.0	58.4	58.9	59.6	60.1	60.7	60.9	61.5
GE 2500		36.3	41.7	48.2	52.1	52.7	54.9	57.4	59.3	61.8	62.2	63.0	63.4	64.0	64.3	64.8
GE 2000		40.9	47.0	54.3	58.8	59.4	62.0	64.5	66.4	69.3	69.8	70.5	70.9	71.6	71.8	72.3
GE 1800		42.1	48.3	55.8	60.6	61.2	63.8	66.4	68.4	71.4	71.8	72.6	73.0	73.6	73.8	74.4
GE 1500		46.3	52.7	61.1	67.2	67.8	70.6	73.3	75.5	78.7	79.1	79.9	80.3	80.9	81.2	81.7
GE 1200		48.5	55.1	64.0	70.6	71.5	74.4	77.2	79.3	82.6	83.0	83.7	84.2	84.8	85.0	85.6
GE 1000		49.6	56.3	65.8	72.8	73.7	77.0	79.9	82.1	86.3	86.8	87.5	87.9	88.6	88.8	89.5
GE 900		50.2	56.9	66.7	74.1	75.0	78.5	81.6	83.9	88.1	88.5	89.2	89.7	90.4	90.6	91.3
GE 800		50.3	57.1	66.8	74.3	75.3	78.9	82.2	84.5	88.9	89.3	90.1	90.5	91.6	91.8	92.5
GE 700		50.9	57.9	67.7	75.5	76.6	80.3	83.9	86.2	90.7	91.3	92.1	92.7	93.8	94.0	94.6
GE 600		50.9	57.9	67.7	75.6	76.7	80.7	84.3	86.7	91.5	92.0	92.9	93.4	94.5	94.7	95.4
GE 500		50.9	57.9	67.7	75.6	76.9	80.9	84.5	86.9	92.0	92.6	93.4	94.0	95.0	95.3	95.9
GE 400		50.9	57.9	67.7	75.6	76.9	80.9	84.8	87.4	92.8	93.3	94.2	94.7	95.8	96.0	96.7
GE 300		50.9	57.9	67.7	75.6	76.9	80.9	84.8	87.4	93.0	93.8	94.7	95.3	96.4	96.8	97.5
GE 200		50.9	57.9	67.7	75.6	76.9	80.9	84.8	87.4	93.3	94.1	95.0	95.7	97.0	97.8	99.4
GE 100		50.9	57.9	67.7	75.6	76.9	80.9	84.8	87.4	93.3	94.1	95.0	95.7	97.1	98.1	99.9
GE NI		50.9	57.9	67.7	75.6	76.9	80.9	84.8	87.4	93.3	94.1	95.0	95.7	97.1	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAR HOURS (LST): 1200-1400

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 1
NO CEIL		15.7	17.0	18.9	20.6	20.6	21.2	21.4	21.5	21.7	21.7	21.7	21.7	21.7	21.7	21.7
GE 20000		21.9	24.1	27.0	29.5	29.5	30.3	30.6	30.9	31.1	31.1	31.1	31.1	31.1	31.1	31.1
GE 18000		22.3	24.5	27.4	29.9	29.9	30.8	31.1	31.3	31.5	31.5	31.5	31.5	31.5	31.5	31.5
GE 16000		22.4	24.6	27.5	30.0	30.0	30.9	31.2	31.4	31.6	31.6	31.6	31.6	31.6	31.6	31.6
GE 14000		22.6	24.9	27.8	30.3	30.3	31.2	31.5	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9
GE 12000		22.8	25.3	28.3	30.8	30.8	31.6	31.9	32.2	32.4	32.4	32.4	32.4	32.4	32.4	32.4
GE 10000		24.2	26.8	29.8	32.4	32.4	33.2	33.5	33.8	34.2	34.2	34.2	34.2	34.2	34.2	34.2
GE 9000		24.8	27.4	30.4	33.0	33.0	33.9	34.3	34.5	34.9	34.9	34.9	34.9	34.9	34.9	34.9
GE 8000		25.7	29.1	32.6	35.7	35.8	36.7	37.1	37.3	37.7	37.7	37.7	37.7	37.7	37.7	37.7
GE 7000		26.8	30.3	33.8	36.9	37.0	37.8	38.3	38.5	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 6000		27.1	30.6	34.1	37.2	37.3	38.2	38.6	38.8	39.4	39.4	39.4	39.4	39.4	39.4	39.4
GE 5000		28.1	31.6	35.2	38.5	38.6	39.5	39.9	40.1	40.6	40.6	40.8	40.8	40.8	40.8	40.8
GE 4500		30.1	33.8	37.3	41.0	41.1	42.0	42.8	43.2	43.8	43.8	43.9	43.9	43.9	43.9	43.9
GE 4000		32.4	36.5	40.2	44.0	44.1	45.1	45.8	46.2	47.1	47.1	47.2	47.2	47.2	47.2	47.2
GE 3500		37.4	42.3	46.8	50.5	50.6	51.6	52.4	52.8	53.7	53.7	53.8	53.8	53.8	53.8	53.8
GE 3000		47.3	52.4	57.6	61.5	61.6	62.7	63.5	64.0	65.1	65.1	65.2	65.2	65.2	65.2	65.2
GE 2500		51.1	56.5	62.0	65.9	66.0	67.2	68.1	68.5	69.6	69.6	69.7	69.7	69.7	69.7	69.7
GE 2000		56.2	61.8	67.6	72.0	72.2	73.3	74.2	74.6	75.8	75.8	75.9	75.9	75.9	75.9	75.9
GE 1800		57.3	63.0	69.7	74.1	74.2	75.4	76.2	76.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0
GE 1500		62.5	68.3	76.2	81.7	82.0	83.3	84.2	84.6	86.1	86.1	86.2	86.3	86.3	86.3	86.3
GE 1200		64.8	70.9	79.7	85.3	85.6	86.9	87.8	88.5	90.3	90.3	90.4	90.5	90.5	90.5	90.5
GE 1000		65.8	71.8	81.2	87.1	87.6	89.0	90.3	91.0	93.1	93.1	93.3	93.4	93.4	93.4	93.4
GE 900		65.9	71.9	81.4	87.7	88.3	89.9	91.3	91.9	94.3	94.3	94.5	94.6	94.6	94.6	94.6
GE 800		66.0	72.4	81.8	88.4	89.1	91.0	92.5	93.1	95.6	95.7	95.9	96.1	96.1	96.1	96.1
GE 700		66.7	73.0	82.5	89.1	89.9	91.8	93.8	94.5	97.1	97.2	97.4	97.6	97.6	97.6	97.6
GE 600		66.7	73.0	82.5	89.1	89.9	91.9	94.3	95.3	98.3	98.4	98.6	98.8	98.8	98.8	98.8
GE 500		66.7	73.0	82.5	89.1	90.0	92.0	94.4	95.4	98.5	98.7	98.9	99.1	99.1	99.1	99.1
GE 400		66.7	73.0	82.5	89.1	90.0	92.0	94.4	95.5	98.7	98.9	99.1	99.4	99.4	99.4	99.4
GE 300		66.7	73.0	82.5	89.1	90.0	92.2	94.5	95.7	99.0	99.5	99.8	100.0	100.0	100.0	100.0
GE 200		66.7	73.0	82.5	89.1	90.0	92.2	94.5	95.7	99.0	99.5	99.8	100.0	100.0	100.0	100.0
GE 100		66.7	73.0	82.5	89.1	90.0	92.2	94.5	95.7	99.0	99.5	99.8	100.0	100.0	100.0	100.0
GE	0	66.7	73.0	82.5	89.1	90.0	92.2	94.5	95.7	99.0	99.5	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAR HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GL 80	GF 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL	20.6	21.5	23.2	24.1	24.2	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
GE 20000	29.2	30.6	32.9	34.2	34.3	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
GE 18000	29.8	31.2	33.4	34.7	34.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
GE 16000	29.8	31.3	33.5	34.8	34.9	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
GE 14000	30.3	31.9	34.2	35.5	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 12000	31.4	33.0	35.3	36.6	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
GE 10000	33.0	34.8	37.4	38.7	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 9000	33.3	35.4	38.0	39.2	39.4	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 8000	35.2	37.6	40.5	41.9	42.3	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.7	42.7	42.7	42.7
GE 7000	36.0	38.7	41.6	43.1	43.4	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.9	43.9	43.9	43.9
GE 6000	36.3	39.0	41.9	43.4	43.8	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.2	44.2	44.2	44.2
GE 5000	38.4	41.1	44.3	45.8	46.1	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.6	46.6	46.6	46.6
GE 4500	40.8	43.4	47.0	48.7	49.0	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.5	49.5	49.5	49.5
GE 4000	43.9	47.0	50.5	52.4	52.7	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.3	53.3	53.3	53.3
GE 3500	49.8	53.1	57.4	59.2	59.6	59.8	60.0	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.2
GE 3000	61.8	65.5	70.4	72.5	72.8	73.1	73.3	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.5
GE 2500	66.9	70.6	75.9	78.2	78.5	78.8	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2
GE 2000	72.5	76.6	82.9	85.3	85.6	85.9	86.1	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3
GE 1800	73.7	77.7	84.5	86.9	87.2	87.5	87.7	87.8	87.8	87.8	87.8	87.8	88.0	88.0	88.0	88.0
GE 1500	76.8	81.2	89.0	91.9	92.3	92.7	93.4	93.5	93.5	93.5	93.5	93.5	93.7	93.7	93.7	93.7
GE 1200	79.0	83.7	91.9	95.1	95.4	95.8	96.6	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9
GE 1000	79.2	83.9	92.2	95.7	96.0	96.5	97.2	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7
GE 900	79.4	84.0	92.3	95.8	96.1	96.7	97.4	97.8	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0
GE 800	79.7	84.3	92.6	96.3	96.7	97.4	98.3	98.7	98.8	98.8	98.8	98.8	99.0	99.1	99.2	99.2
GE 700	79.7	84.3	92.7	96.5	96.8	97.6	98.5	98.9	99.0	99.0	99.0	99.0	99.2	99.4	99.5	99.5
GE 600	79.7	84.3	92.7	96.5	96.8	97.6	98.5	99.0	99.2	99.2	99.2	99.2	99.5	99.6	99.7	99.7
GE 500	79.7	84.3	92.8	96.6	96.9	97.7	98.7	99.1	99.4	99.4	99.4	99.4	99.6	99.7	99.8	99.8
GE 400	79.7	84.3	92.8	96.6	96.9	97.7	98.7	99.1	99.4	99.4	99.4	99.4	99.6	99.9	100.0	100.0
GE 300	79.7	84.3	92.8	96.6	96.9	97.7	98.7	99.1	99.4	99.4	99.4	99.4	99.6	99.9	100.0	100.0
GE 200	79.7	84.3	92.8	96.6	96.9	97.7	98.7	99.1	99.4	99.4	99.4	99.4	99.6	99.9	100.0	100.0
GE 100	79.7	84.3	92.8	96.6	96.9	97.7	98.7	99.1	99.4	99.4	99.4	99.4	99.6	99.9	100.0	100.0
GE 0	79.7	84.3	92.8	96.6	96.9	97.7	98.7	99.1	99.4	99.4	99.4	99.4	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAR HOURS(IST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	25.5	26.1	27.4	27.7	27.7	28.0	28.0	28.0	28.0	29.0	28.0	28.0	28.0	28.0	28.0	28.0
GE 20000	4.9	36.0	37.6	38.3	38.3	38.4	38.8	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 18000	35.2	36.2	37.8	38.5	38.5	38.5	39.0	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 16000	35.3	36.3	38.0	38.6	38.6	39.1	39.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 14000	36.0	37.4	39.0	39.7	39.7	40.2	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 12000	37.2	38.6	40.2	41.1	41.1	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 10000	39.7	41.5	43.5	44.4	44.4	44.9	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 9000	40.6	42.5	44.5	45.4	45.4	45.9	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
GE 8000	45.5	47.7	49.9	51.0	51.0	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
GE 7000	46.1	48.4	50.5	51.8	51.8	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 6000	46.6	48.8	51.0	52.3	52.3	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 5000	48.4	50.6	52.8	54.2	54.2	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 4500	51.9	54.7	57.8	59.4	59.4	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 4000	56.6	59.8	62.9	64.6	64.6	65.3	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 3500	61.5	64.7	68.7	70.4	70.4	71.1	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 3000	69.6	73.5	78.1	80.1	80.1	80.8	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 2500	71.7	75.7	80.5	82.7	82.7	83.3	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 2000	74.9	79.6	85.3	87.7	87.8	89.1	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1800	75.8	80.4	86.3	89.1	89.2	90.5	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1600	78.1	82.9	89.4	92.8	92.9	94.4	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 1200	79.1	84.0	91.3	94.8	94.9	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	79.2	84.1	91.5	95.6	95.7	97.3	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	79.2	84.1	91.5	95.6	95.7	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	79.5	84.4	91.8	95.9	96.0	97.8	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 700	79.5	84.4	91.8	95.9	96.0	97.8	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.1	99.1	99.1	99.1	99.1	99.4	99.5	99.5
GE 500	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.2	99.2	99.2	99.2	99.2	99.5	99.6	99.6
GE 400	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.4	99.4	99.4	99.4	99.4	99.7	99.8	99.8
GE 300	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.4	99.4	99.4	99.4	99.4	99.8	99.9	99.9
GE 200	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.4	99.4	99.4	99.4	99.4	99.8	99.9	99.9
GE 100	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.4	99.4	99.4	99.4	99.5	99.9	100.0	100.0
GE 0	79.5	84.4	91.8	96.0	96.2	98.1	98.6	98.8	99.4	99.4	99.4	99.4	99.5	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAR HOURS(LST): 2100-2300

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GF 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		32.0	34.2	36.0	36.8	36.8	37.6	37.8	38.0	38.4	38.4	38.4	38.5	38.5	38.5	38.5
GE 20000		36.5	38.6	40.9	41.8	42.2	43.3	43.5	43.7	44.1	44.1	44.1	44.2	44.2	44.3	44.3
GE 18000		36.5	38.6	41.1	42.0	42.4	43.5	43.8	43.9	44.3	44.3	44.3	44.4	44.4	44.5	44.5
GE 16000		36.5	38.6	41.1	42.0	42.4	43.5	43.8	43.9	44.3	44.3	44.3	44.4	44.4	44.5	44.5
GE 14000		36.6	38.7	41.2	42.2	42.5	43.7	43.9	44.0	44.4	44.4	44.4	44.5	44.5	44.6	44.6
GE 12000		37.0	39.1	41.6	42.6	42.9	44.1	44.3	44.6	45.1	45.1	45.1	45.2	45.2	45.3	45.3
GE 10000		39.4	41.5	44.0	44.9	45.3	46.5	46.7	47.0	47.4	47.4	47.4	47.5	47.5	47.6	47.6
GE 9000		40.4	42.6	45.1	46.0	46.3	47.5	47.7	48.1	48.5	48.5	48.5	48.6	48.6	48.7	48.7
GE 8000		43.7	45.8	48.5	49.7	50.1	51.3	51.5	51.8	52.3	52.3	52.3	52.4	52.4	52.5	52.5
GE 7000		44.1	46.2	48.9	50.2	50.6	51.8	52.0	52.4	52.8	52.8	52.8	52.9	52.9	53.0	53.0
GE 6000		44.3	46.5	49.1	50.4	50.9	52.0	52.3	52.6	53.0	53.0	53.0	53.1	53.1	53.2	53.2
GE 5000		46.5	48.6	51.6	52.9	53.3	54.5	54.7	55.1	55.5	55.5	55.5	55.6	55.6	55.7	55.7
GE 4500		50.8	53.4	57.8	59.5	59.9	61.1	61.3	61.7	62.2	62.2	62.2	62.3	62.3	62.4	62.4
GE 4000		54.0	56.7	61.1	62.7	63.1	64.9	65.2	65.6	66.0	66.0	66.0	66.1	66.1	66.2	66.2
GE 3500		59.8	62.5	67.3	68.9	69.4	71.2	71.4	71.8	72.3	72.3	72.3	72.4	72.4	72.5	72.5
GE 3000		64.7	67.6	73.2	75.1	75.5	77.3	77.6	78.1	78.5	78.5	78.5	78.6	78.6	78.7	78.7
GE 2500		67.2	70.2	76.9	79.0	79.5	81.3	81.6	82.4	82.8	82.8	82.8	82.9	82.9	83.0	83.0
GE 2000		70.1	73.4	81.0	83.2	83.7	86.0	86.3	87.1	87.5	87.5	87.5	87.6	87.6	87.7	87.7
GE 1800		70.6	74.1	81.7	84.0	84.5	86.9	87.2	88.0	88.4	88.4	88.4	88.5	88.5	88.6	88.6
GE 1500		73.7	77.4	85.7	88.2	88.7	91.2	91.5	92.3	92.7	92.7	92.7	92.8	92.8	92.9	92.9
GE 1200		75.3	79.0	88.0	90.4	91.0	93.4	94.0	94.7	95.2	95.2	95.2	95.3	95.3	95.4	95.4
GE 1000		75.8	79.7	88.9	91.8	92.4	94.9	95.5	96.3	96.8	96.8	96.8	96.9	96.9	97.0	97.0
GE 900		76.1	80.0	89.5	92.5	93.0	95.6	96.2	97.1	97.5	97.5	97.5	97.6	97.6	97.7	97.7
GE 800		76.1	80.0	89.6	92.7	93.2	95.8	96.6	97.5	98.1	98.1	98.1	98.2	98.2	98.3	98.3
GE 700		76.1	80.0	89.6	92.7	93.2	95.9	96.9	98.0	98.5	98.5	98.5	98.6	98.6	98.7	98.7
GE 600		76.1	80.0	89.6	92.9	93.4	96.1	97.1	98.2	98.7	98.7	98.7	98.8	98.8	98.9	98.9
GE 500		76.1	80.0	89.8	92.9	93.4	96.2	97.2	98.4	98.9	98.9	98.9	99.0	99.0	99.1	99.1
GE 400		76.1	80.0	89.8	92.9	93.4	96.2	97.3	98.5	99.0	99.0	99.0	99.1	99.1	99.2	99.2
GE 300		76.1	80.0	89.8	92.9	93.4	96.2	97.3	98.5	99.0	99.0	99.0	99.1	99.1	99.2	99.2
GE 200		76.1	80.0	89.8	92.9	93.4	96.2	97.3	98.5	99.2	99.2	99.2	99.3	99.3	99.4	99.4
GE 100		76.1	80.0	89.8	92.9	93.4	96.2	97.3	98.5	99.2	99.2	99.2	99.3	99.3	99.4	99.4
GE 0		76.1	80.0	89.8	92.9	93.4	96.2	97.3	98.5	99.2	99.2	99.2	99.3	99.3	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAR HOURS(IST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	21.7	23.1	25.0	26.2	26.3	26.8	27.3	27.5	27.9	28.0	28.1	28.4	28.6	28.8	29.1	
GE 20000	27.3	29.1	31.5	32.9	33.1	34.1	34.7	35.0	35.6	35.6	35.8	36.1	36.4	36.6	36.9	
GE 18000	27.5	29.3	31.7	33.1	33.4	34.3	34.9	35.2	35.8	35.9	36.0	36.3	36.7	36.9	37.2	
GE 16000	27.5	29.3	31.7	33.2	33.4	34.3	34.9	35.3	35.8	35.9	36.1	36.4	36.7	36.9	37.2	
GE 14000	27.8	29.6	32.0	33.5	33.7	34.7	35.2	35.6	36.2	36.2	36.4	36.7	37.0	37.2	37.5	
GE 12000	28.2	30.1	32.5	34.0	34.2	35.2	35.8	36.1	36.8	36.8	37.0	37.3	37.6	37.8	38.1	
GE 10000	29.8	31.4	34.4	36.0	36.2	37.1	37.7	38.1	38.8	38.9	39.0	39.4	39.7	39.9	40.2	
GE 9000	30.4	32.5	35.1	36.6	36.8	37.8	38.4	38.8	39.5	39.6	39.7	40.1	40.4	40.7	41.0	
GE 8000	32.4	34.9	37.7	39.4	39.7	40.7	41.3	41.8	42.6	42.6	42.8	43.2	43.5	43.8	44.1	
GE 7000	33.2	35.7	38.5	40.2	40.5	41.6	42.3	42.8	43.6	43.6	43.8	44.2	44.5	44.8	45.1	
GE 6000	33.5	35.9	38.8	40.5	40.8	41.9	42.6	43.1	43.9	44.0	44.1	44.5	44.9	45.1	45.4	
GE 5000	35.2	37.8	40.9	42.7	42.0	44.1	44.9	45.4	46.2	46.3	46.4	46.9	47.3	47.5	47.8	
GE 4500	38.6	41.4	45.2	47.2	47.5	48.8	49.6	50.2	51.1	51.2	51.4	51.8	52.3	52.6	52.9	
GE 4000	42.1	45.2	49.1	51.3	51.6	53.0	54.0	54.7	55.6	55.7	55.9	56.4	56.8	57.1	57.5	
GE 3500	46.5	49.9	54.2	56.4	56.8	58.1	59.2	59.8	60.9	61.0	61.2	61.6	62.1	62.4	62.7	
GE 3000	53.1	56.9	62.1	64.5	64.8	66.2	67.4	68.1	69.2	69.3	69.5	70.0	70.4	70.8	71.1	
GE 2500	56.2	60.2	65.9	68.5	68.9	70.4	71.5	72.3	73.5	73.6	73.8	74.2	74.7	75.0	75.4	
GE 2000	60.4	64.7	71.2	74.1	74.6	76.4	77.6	78.4	79.7	79.8	80.0	80.5	81.0	81.3	81.6	
GE 1800	61.3	65.6	72.4	75.3	75.9	77.7	78.9	79.7	81.0	81.1	81.4	81.8	82.3	82.6	83.0	
GE 1500	64.7	69.3	77.0	80.5	81.1	83.0	84.3	85.2	86.6	86.7	87.0	87.5	87.9	88.3	88.6	
GE 1200	67.1	71.9	80.0	83.6	84.2	86.2	87.6	88.6	90.1	90.2	90.4	90.9	91.4	91.7	92.0	
GE 1000	68.1	73.0	81.6	85.6	86.3	88.4	89.9	91.0	92.6	92.7	93.0	93.5	93.9	94.3	94.7	
GE 900	68.4	73.3	81.9	86.2	86.8	89.1	90.6	91.7	93.3	93.5	93.7	94.2	94.7	95.1	95.4	
GE 800	68.6	73.6	82.2	86.6	87.4	89.8	91.4	92.5	94.3	94.4	94.7	95.2	95.8	96.2	96.5	
GE 700	68.8	73.8	82.5	87.0	87.7	90.3	92.1	93.3	95.1	95.3	95.6	96.1	96.7	97.0	97.4	
GE 600	68.8	73.8	82.6	87.1	87.8	90.5	92.4	93.6	95.6	95.7	96.1	96.6	97.2	97.5	97.9	
GE 500	68.8	73.8	82.6	87.1	87.9	90.6	92.6	93.8	95.6	96.0	96.4	96.9	97.5	97.9	98.3	
GE 400	68.8	73.8	82.6	87.1	87.9	90.6	92.7	93.9	96.0	96.2	96.6	97.2	97.8	98.1	98.5	
GE 300	68.8	73.8	82.6	87.1	87.9	90.6	92.8	94.2	96.3	96.6	97.0	97.6	98.3	98.6	99.1	
GE 200	68.8	73.8	82.6	87.1	87.9	90.6	92.8	94.2	96.4	96.6	97.0	97.8	98.4	99.1	99.7	
GE 100	68.8	73.8	82.6	87.1	87.9	90.6	92.8	94.2	96.4	96.6	97.0	97.8	98.5	99.1	100.0	
GE 0	68.8	73.8	82.6	87.1	87.9	90.6	92.8	94.2	96.4	96.6	97.0	97.8	98.5	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
 MONTH: APR HOURS(IST): 1000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
NO CEIL	49.6	51.5	53.4	53.8	53.9	54.2	54.2	54.2	54.6	54.6	54.6	54.9	54.9	54.9	55.1	
GE 2000	53.1	55.1	57.0	57.4	57.5	58.1	58.2	58.2	58.6	58.6	58.6	59.0	59.1	59.2	59.3	
GE 1800	53.2	55.2	57.1	57.5	57.6	58.2	58.3	58.3	58.7	58.7	58.7	59.1	59.2	59.3	59.4	
GE 1600	53.2	55.2	57.1	57.5	57.6	58.2	58.3	58.3	58.7	58.7	58.7	59.1	59.2	59.3	59.4	
GE 1400	53.2	55.2	57.1	57.5	57.6	58.2	58.3	58.3	58.7	58.7	58.7	59.1	59.2	59.3	59.4	
GE 1200	53.2	55.2	57.1	57.5	57.6	58.2	58.3	58.3	58.7	58.7	58.7	59.1	59.2	59.3	59.4	
GE 1000	55.4	57.4	59.3	59.7	59.8	60.5	60.7	60.7	61.2	61.2	61.2	61.5	61.6	61.8	62.0	
GE 900	56.4	58.7	60.6	61.1	61.2	61.8	62.1	62.1	62.5	62.5	62.5	62.8	63.0	63.2	63.3	
GE 800	58.3	60.7	63.0	63.4	63.5	64.2	64.8	64.8	65.4	65.4	65.4	65.7	65.9	66.1	66.2	
GE 700	58.8	61.3	63.5	64.0	64.1	64.7	65.4	65.4	66.0	66.0	66.0	66.3	66.4	66.6	66.7	
GE 600	59.0	61.5	63.7	64.2	64.3	65.0	65.6	65.6	66.2	66.2	66.2	66.5	66.6	66.9	67.0	
GE 500	63.0	65.5	67.7	68.2	68.3	67.0	69.6	69.6	70.2	70.2	70.2	70.5	70.6	70.9	71.0	
GE 450	67.6	70.9	73.4	73.9	74.0	74.6	75.3	75.3	75.9	75.9	75.9	76.2	76.4	76.6	76.6	
GE 400	73.0	76.2	78.9	79.3	79.4	80.1	80.8	80.8	81.3	81.3	81.3	81.6	81.9	82.1	82.2	
GE 350	75.9	79.4	82.6	83.2	83.3	84.0	84.6	84.6	85.2	85.2	85.2	85.5	85.8	86.0	86.1	
GE 300	78.3	82.0	85.5	86.1	86.2	86.9	87.5	87.5	88.2	88.2	88.2	88.5	88.8	89.0	89.1	
GE 250	78.6	82.3	86.0	86.5	86.7	87.4	88.1	88.1	88.8	88.8	88.8	89.1	89.3	89.5	89.7	
GE 200	79.8	83.6	87.7	88.2	88.3	89.1	89.8	89.8	90.4	90.4	90.4	90.8	91.0	91.2	91.3	
GE 180	80.2	84.1	88.3	88.9	89.0	89.9	90.5	90.5	91.2	91.2	91.2	91.5	91.8	92.0	92.1	
GE 150	81.5	85.5	89.9	90.5	90.7	91.5	92.2	92.4	93.1	93.1	93.1	93.4	93.7	93.9	94.0	
GE 120	81.8	86.1	91.0	91.7	91.8	92.4	93.4	93.7	94.3	94.3	94.3	94.7	94.9	95.1	95.2	
GE 100	82.0	86.4	91.4	92.1	92.2	93.7	94.4	94.7	95.7	95.7	95.7	96.0	96.2	96.4	96.6	
GE 90	82.0	86.4	91.4	92.1	92.2	93.7	94.4	94.7	95.8	95.8	95.8	96.1	96.3	96.6	96.7	
GE 80	82.3	86.9	92.0	92.7	92.8	94.2	95.0	95.2	96.3	96.3	96.3	96.7	96.9	97.1	97.2	
GE 70	82.3	86.9	92.0	92.7	92.8	94.5	95.6	95.8	96.9	96.9	96.9	97.2	97.4	97.7	97.8	
GE 60	82.3	86.9	92.0	92.7	92.8	94.7	95.7	95.9	97.0	97.0	97.0	97.3	97.6	97.8	98.0	
GE 50	82.3	86.9	92.0	92.7	92.8	94.9	96.1	96.3	97.4	97.4	97.4	97.8	98.0	98.3	98.4	
GE 40	82.3	86.9	92.0	92.7	92.8	94.9	96.3	96.6	97.7	97.7	97.7	98.0	98.3	98.7	98.9	
GE 30	82.3	86.9	92.1	92.8	92.9	94.9	96.4	97.3	98.4	98.4	98.4	98.8	99.1	99.4	99.7	
GE 20	82.3	86.9	92.1	92.8	92.9	95.0	96.8	97.3	98.4	98.4	98.4	98.8	99.1	99.4	99.7	
GE 10	82.3	86.9	92.1	92.8	92.9	95.0	96.7	97.3	98.4	98.4	98.4	98.8	99.1	99.4	99.9	
GE 0	82.3	86.9	92.1	92.8	92.9	95.0	96.8	97.3	98.4	98.4	98.4	98.8	99.1	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 849

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106147 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
 MONTH: APR HOURS(IST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 30	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL		42.7	45.7	49.8	50.2	50.4	51.4	51.7	51.7	52.7	52.8	52.8	53.1	53.2	53.3	53.4
GE 20000		45.6	48.7	52.8	53.2	53.6	54.8	55.1	55.1	56.2	56.3	56.3	56.7	57.0	57.1	57.4
GE 18000		45.6	48.7	52.8	53.2	53.6	54.8	55.1	55.1	56.2	56.3	56.3	56.7	57.0	57.1	57.4
GE 16000		45.6	48.7	52.8	53.2	53.6	54.8	55.1	55.1	56.2	56.3	56.3	56.7	57.0	57.1	57.4
GE 14000		45.8	48.9	53.0	53.4	53.8	55.0	55.3	55.3	56.4	56.6	56.6	56.9	57.2	57.3	57.7
GE 12000		45.8	48.9	53.0	53.4	53.8	55.0	55.3	55.3	56.6	56.7	56.7	57.0	57.3	57.4	57.8
GE 10000		47.3	50.4	54.6	55.0	55.3	56.6	56.9	56.9	58.1	58.2	58.2	58.6	58.9	59.0	59.3
GE 9000		47.7	51.0	55.1	55.6	55.9	57.1	57.4	57.4	58.7	58.8	58.8	59.1	59.4	59.6	59.9
GE 8000		49.3	53.0	57.6	58.0	58.3	59.6	60.2	60.2	61.6	61.7	61.8	62.1	62.6	62.7	63.0
GE 7000		49.7	53.3	57.9	58.3	58.7	59.9	60.6	60.6	61.9	62.0	62.1	62.4	63.0	63.1	63.4
GE 6000		49.9	53.6	58.2	58.7	59.0	60.2	60.9	60.9	62.2	62.3	62.4	62.8	63.3	63.4	63.8
GE 5000		52.4	56.1	61.1	61.6	61.9	63.2	63.9	63.9	65.2	65.3	65.4	65.8	66.3	66.4	66.8
GE 4500		56.0	60.1	65.0	66.2	66.6	67.9	68.6	68.7	70.0	70.1	70.2	70.6	71.1	71.2	71.6
GE 4000		59.8	64.1	69.9	70.3	70.7	72.1	72.8	72.9	74.3	74.4	74.7	75.3	75.6	75.7	76.0
GE 3500		63.6	67.9	74.9	75.3	75.7	77.1	77.8	77.9	79.4	79.6	79.8	80.1	80.7	80.8	81.1
GE 3000		66.3	73.0	80.3	80.8	81.1	82.6	83.2	83.3	84.9	85.0	85.2	85.6	86.1	86.2	86.6
GE 2500		69.7	74.3	81.9	82.4	82.8	84.2	84.9	85.0	86.6	86.7	86.9	87.2	87.8	87.9	88.2
GE 2000		71.0	75.7	83.7	84.2	84.6	86.0	86.7	86.8	88.4	88.6	88.8	89.1	89.7	89.8	90.1
GE 1800		71.3	76.0	84.1	84.7	85.0	86.4	87.1	87.2	88.9	89.0	89.2	89.6	90.1	90.2	90.6
GE 1600		72.7	77.7	86.3	87.0	87.3	88.8	89.4	89.6	91.2	91.3	91.6	91.9	92.4	92.6	92.9
GE 1400		73.1	78.2	87.6	88.3	88.7	90.1	90.8	91.1	92.6	92.9	93.1	93.6	94.0	94.1	94.4
GE 1200		74.0	79.1	88.8	89.7	90.0	91.4	92.1	92.4	94.1	94.3	94.6	94.9	95.4	95.6	95.9
GE 900		74.2	79.3	89.0	89.9	90.2	91.7	92.3	92.8	94.6	94.8	95.0	95.3	96.1	96.2	96.6
GE 800		74.2	79.3	89.0	89.9	90.2	91.7	92.3	92.8	94.6	94.8	95.0	95.3	96.1	96.2	96.6
GE 700		74.2	79.3	89.1	90.0	90.3	91.9	92.6	93.3	95.1	95.4	95.7	96.7	96.8	96.9	97.3
GE 600		74.2	79.3	89.1	90.0	90.3	92.1	93.1	93.6	95.6	95.9	96.1	96.4	97.2	97.3	97.8
GE 500		74.2	79.3	89.1	90.0	90.3	92.6	93.9	94.3	96.3	96.7	96.7	97.2	98.0	98.1	98.6
GE 400		74.2	79.3	89.2	90.1	90.4	92.9	94.2	94.7	96.7	97.0	97.3	97.7	98.7	98.8	99.2
GE 300		74.2	79.3	89.2	90.1	90.4	92.9	94.4	94.9	97.0	97.3	97.7	98.7	99.0	99.1	99.9
GE 200		74.2	79.3	89.2	91.1	90.4	92.9	94.4	94.9	97.0	97.4	97.8	98.1	99.1	99.2	100.0
GE 100		74.2	79.3	89.2	90.1	90.4	92.9	94.4	94.9	97.0	97.4	97.8	98.1	99.1	99.2	100.0
GE 0		74.2	79.3	89.2	90.1	90.4	92.9	94.4	94.9	97.0	97.4	97.8	98.1	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 960



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: APR HOURS (LST): 0600-0800

CEILING IN FEET	UT 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEILING		27.9	31.0	35.8	39.7	36.9	40.1	40.6	43.8	41.9	42.2	42.3	42.3	42.7	42.9	43.1	
GE 20000		30.9	34.0	39.2	42.3	42.6	43.0	44.2	44.4	45.7	46.1	46.2	46.2	46.9	47.1	47.3	
GE 18000		31.0	34.1	39.3	42.4	42.7	43.9	44.3	44.6	45.8	46.1	46.4	46.4	47.1	47.3	47.6	
GE 16000		31.1	34.2	39.4	42.6	42.8	44.0	44.4	44.7	45.9	46.4	46.6	46.6	47.2	47.4	47.7	
GE 14000		31.1	34.2	39.4	42.6	42.8	44.0	44.4	44.7	45.9	46.4	46.6	46.6	47.2	47.4	47.7	
GE 12000		31.2	34.7	39.9	43.3	43.2	44.4	44.9	45.1	46.3	46.9	47.0	47.0	47.7	47.9	48.1	
GE 10000		33.7	36.8	42.0	45.1	45.6	46.9	47.4	47.7	48.9	49.4	49.6	49.6	50.2	50.4	50.7	
GE 9000		33.9	37.0	42.2	45.6	45.8	47.2	47.8	48.0	49.2	49.8	49.9	49.9	50.6	50.8	51.0	
GE 8000		36.0	39.6	45.0	48.4	48.6	50.2	50.9	51.1	52.6	53.2	53.6	53.6	54.3	54.7	54.9	
GE 7000		36.3	39.9	45.4	49.9	49.2	50.8	51.4	51.7	53.1	53.9	54.1	54.1	54.9	55.2	55.4	
GE 6000		36.6	40.2	46.0	49.4	49.8	51.4	52.1	52.3	53.8	54.4	54.8	54.8	55.6	55.9	56.1	
GE 5000		39.7	43.7	49.6	53.2	53.6	55.2	56.3	56.7	58.6	59.2	59.6	59.6	60.3	60.7	60.9	
GE 4500		42.1	46.4	52.9	56.7	57.0	59.9	60.1	60.4	62.4	63.1	63.4	63.4	64.3	64.7	64.9	
GE 4000		45.9	50.6	57.4	61.6	61.9	63.9	65.0	65.3	67.8	69.4	69.8	69.8	69.7	70.1	70.3	
GE 3500		47.8	52.6	59.7	63.9	64.2	66.3	67.7	68.0	70.4	71.1	71.4	71.4	72.3	72.8	73.0	
GE 3000		52.9	58.2	66.1	70.6	70.9	73.2	74.6	74.9	77.6	78.2	78.6	78.6	79.4	79.9	80.1	
GE 2500		55.1	60.6	68.6	73.3	73.7	76.1	77.4	77.8	80.4	81.1	81.4	81.4	82.3	82.8	83.0	
GE 2000		57.4	63.2	71.7	76.8	77.1	79.7	81.0	81.3	84.0	84.7	85.0	85.1	86.0	86.4	86.7	
GE 1800		58.4	64.3	72.8	77.9	78.2	80.8	82.1	82.4	85.1	85.9	86.1	86.2	87.1	87.6	87.8	
GE 1600		59.8	66.3	75.1	80.4	80.9	83.7	85.0	85.3	88.0	89.7	89.0	89.1	90.0	90.4	90.7	
GE 1400		60.2	67.0	76.2	81.7	82.1	85.1	86.4	86.8	89.6	91.2	90.6	90.7	91.6	92.0	92.2	
GE 1200		60.6	67.3	77.0	82.7	83.1	86.1	87.6	87.9	90.9	91.6	91.9	92.0	92.9	93.3	93.6	
GE 1000		60.6	67.6	77.2	83.0	83.4	86.4	87.9	88.3	91.6	92.2	92.6	92.7	93.6	94.1	94.3	
GE 900		60.9	67.9	78.0	83.8	84.2	87.7	89.1	89.7	92.9	93.7	94.0	94.1	95.0	95.6	95.8	
GE 800		60.9	67.9	78.2	84.1	84.6	88.0	89.7	90.2	93.7	94.4	94.8	94.9	95.8	96.3	96.6	
GE 700		60.9	67.9	78.3	84.2	84.7	88.1	89.8	90.3	93.8	94.6	95.0	95.1	96.0	96.6	96.8	
GE 600		60.9	67.9	78.3	84.2	84.7	88.4	90.1	90.7	94.1	95.0	95.4	95.7	96.6	97.1	97.6	
GE 500		60.9	67.9	78.3	84.2	84.7	88.4	90.1	90.8	94.4	95.3	95.9	96.1	97.0	97.6	98.0	
GE 400		60.9	67.9	78.3	84.2	84.7	88.6	90.2	90.9	94.8	95.7	96.2	96.7	97.6	98.1	98.9	
GE 300		60.9	67.9	78.3	84.2	84.7	88.6	90.2	90.9	94.8	95.7	96.2	96.7	97.6	98.3	99.4	
GE 200		60.9	67.9	78.3	84.2	84.7	88.6	90.2	90.9	94.8	95.7	96.2	96.8	97.7	98.6	100.0	
GE 100		60.9	67.9	78.3	84.2	84.7	88.6	90.2	90.9	94.8	95.7	96.2	96.8	97.7	98.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: APR HOURS(EST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 40	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 9	GE 5	GE 4	GE 0
NO CEIL		26.1	26.0	33.9	36.3	36.4	37.3	38.1	38.1	38.4	39.4	38.4	38.6	38.6	38.6	38.7
GE 20000		30.7	32.7	39.2	41.9	42.1	43.1	44.0	44.0	44.7	44.7	44.7	44.9	44.8	44.8	45.0
GE 18000		30.7	32.7	39.2	41.9	42.1	43.1	44.0	44.0	44.7	44.7	44.7	44.8	44.8	44.8	45.0
GE 16000		30.7	32.7	39.2	41.9	42.1	43.1	44.0	44.0	44.7	44.7	44.7	44.8	44.8	44.8	45.2
GE 14000		31.0	33.0	39.6	42.2	42.4	43.4	44.3	44.3	45.0	45.0	45.0	45.1	45.1	45.1	45.6
GE 12000		31.4	33.4	40.0	42.7	42.9	43.9	44.9	44.9	45.6	45.6	45.6	45.7	45.7	45.7	46.1
GE 10000		32.4	34.6	41.1	43.9	44.1	45.1	46.1	46.1	46.9	46.9	46.9	47.0	47.0	47.0	47.4
GE 9000		32.8	34.9	41.4	44.2	44.4	45.4	46.4	46.4	47.2	47.2	47.2	47.3	47.3	47.3	47.8
GE 8000		35.0	37.4	45.0	47.8	48.0	49.0	50.2	50.2	51.7	51.7	51.7	51.8	51.8	51.8	52.2
GE 7000		36.1	38.7	46.4	49.2	49.4	50.4	51.7	51.7	53.1	53.1	53.1	53.2	53.2	53.2	53.7
GE 6000		36.7	39.2	47.0	49.9	50.1	51.1	52.3	52.3	53.8	53.8	53.8	53.9	53.9	53.9	54.3
GE 5000		39.0	42.0	50.4	53.6	53.8	54.8	56.1	56.1	57.6	57.6	57.6	57.7	57.7	57.7	58.1
GE 4500		41.0	44.3	52.8	56.2	56.4	57.4	58.9	58.9	60.6	60.6	60.6	60.7	60.7	60.7	61.1
GE 4000		43.6	47.0	56.0	59.4	59.7	61.0	62.4	62.4	64.2	64.2	64.2	64.3	64.3	64.3	65.0
GE 3500		47.4	50.9	59.9	63.3	63.6	64.9	66.4	66.4	68.3	68.3	68.3	68.4	68.4	68.7	69.3
GE 3000		53.7	57.6	67.4	71.0	71.2	72.7	74.3	74.3	76.4	76.4	76.4	76.6	76.6	76.8	77.4
GE 2500		56.1	60.2	70.3	74.2	74.4	75.9	77.6	77.7	79.8	79.8	79.8	79.9	79.9	80.0	80.8
GE 2000		59.0	63.2	73.7	74.6	74.8	80.1	82.0	82.1	84.2	84.2	84.2	84.3	84.4	84.6	85.4
GE 1800		59.8	64.1	74.6	79.4	79.7	81.2	82.9	83.0	85.1	85.1	85.1	85.2	85.3	85.4	86.1
GE 1600		62.3	67.3	78.4	83.7	83.9	85.6	87.3	87.4	89.6	89.6	89.6	89.7	89.8	89.9	90.6
GE 1400		63.0	68.4	80.2	85.8	86.0	88.0	89.8	89.9	92.1	92.1	92.1	92.2	92.4	92.6	93.4
GE 1200		63.6	69.3	82.0	87.9	88.1	90.6	92.4	92.7	95.0	95.0	95.0	95.2	95.3	95.4	96.1
GE 900		63.7	69.6	82.6	88.4	88.7	91.1	93.0	93.3	96.1	96.1	96.1	96.3	96.4	96.6	97.2
GE 800		63.7	69.9	82.9	88.8	89.0	91.6	93.6	93.9	96.6	96.6	96.6	97.0	97.1	97.2	97.9
GE 700		63.7	69.9	82.9	88.9	89.1	91.8	93.9	94.2	97.4	97.4	97.4	97.7	97.8	97.9	98.6
GE 600		63.7	69.9	82.9	88.9	89.1	91.8	93.9	94.2	97.4	97.4	97.4	97.7	97.8	97.9	98.6
GE 500		63.7	69.9	82.9	88.9	89.1	91.9	94.0	94.3	97.6	97.6	97.6	98.1	98.3	98.4	99.1
GE 400		63.7	69.9	82.9	88.9	89.1	91.9	94.0	94.3	97.9	97.9	98.0	98.6	98.8	98.9	99.8
GE 300		63.7	69.9	82.9	89.9	89.1	91.9	94.0	94.3	98.0	98.0	98.1	98.7	98.9	99.0	99.8
GE 200		63.7	69.9	82.9	89.9	89.1	91.9	94.0	94.3	98.0	98.1	98.2	98.8	99.0	99.1	100.0
GE 100		63.7	69.9	82.9	88.9	89.1	91.9	94.0	94.3	98.0	98.1	98.2	99.0	99.0	99.1	100.0
GE 0		63.7	69.9	82.9	88.9	89.1	91.9	94.0	94.3	98.0	98.1	98.2	98.8	99.0	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
 MONTH: APR HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 37	GE 24	GE 20	GE 16	GE 17	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL	30.6	31.1	32.9	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 20000	36.8	37.6	39.7	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 18000	36.8	37.6	39.7	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 16000	36.9	37.7	39.8	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 14000	37.0	37.8	40.0	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 12000	37.8	38.6	40.8	41.6	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 10000	39.0	39.8	42.0	42.8	42.8	42.8	42.9	42.9	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1
GE 9000	39.2	40.1	42.3	43.1	43.1	43.1	43.2	43.2	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 8000	40.6	41.4	43.8	44.6	44.6	44.6	44.7	44.7	44.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 7000	42.0	43.8	45.4	46.2	46.2	46.2	46.3	46.3	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 6000	42.4	43.6	46.0	46.8	46.8	46.8	46.9	46.9	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 5000	45.6	46.7	49.2	50.0	50.0	50.0	50.1	50.1	50.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 4500	48.2	49.3	51.9	52.7	52.8	52.8	53.0	53.1	53.1	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 4000	52.4	53.7	56.8	57.7	57.8	58.1	58.2	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 3500	59.2	60.7	64.0	64.9	65.0	65.3	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 3000	71.2	73.4	77.1	78.1	78.2	78.6	78.7	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 2500	74.3	76.6	80.4	81.4	81.6	81.9	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 2000	78.6	81.1	85.6	86.8	86.9	87.2	87.3	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1800	79.8	82.3	86.8	88.0	88.1	88.4	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 1500	83.4	86.8	91.7	93.0	93.1	93.4	93.6	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1200	84.4	87.7	93.0	94.7	94.8	95.1	95.2	95.2	95.8	95.4	95.8	95.4	95.8	95.4	95.8	95.4
GE 1000	85.0	88.7	94.3	96.3	96.4	97.1	97.4	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 900	85.0	88.9	94.9	96.9	97.0	97.7	98.0	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	85.0	89.9	94.9	96.9	97.0	97.8	98.1	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700	85.0	89.9	94.9	96.9	97.0	97.9	98.2	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	85.0	88.9	94.9	96.9	97.0	97.8	98.2	98.8	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	85.0	88.9	94.9	96.9	97.0	97.4	98.2	98.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	85.0	88.9	94.9	96.9	97.0	97.8	98.2	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	85.0	88.9	94.9	96.9	97.0	97.8	98.2	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	85.0	88.9	94.9	96.9	97.0	97.8	98.2	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	85.0	88.9	94.9	96.9	97.0	97.8	98.2	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	85.0	88.9	94.9	96.9	97.0	97.8	98.2	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: APR HOURS(IST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 49	GE 40	GE 32	GE 24	GE 20	GE 16	GE 17	GE 10	GE 9	GE 5	GE 4	GE 0
NO CEIL		31.2	31.4	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
GE 20000		39.2	39.4	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 18000		39.7	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 16000		39.9	40.1	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 14000		40.1	40.3	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 12000		40.1	40.3	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 10000		42.9	43.1	43.8	43.8	43.8	43.9	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 9000		43.8	44.0	44.7	44.7	44.7	44.9	44.8	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 8000		46.0	46.6	47.3	47.3	47.3	47.4	47.4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 7000		47.0	47.7	48.4	48.4	48.4	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 6000		47.6	48.2	49.0	49.0	49.0	49.1	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 5000		50.2	50.9	51.7	51.7	51.7	51.8	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 4500		54.1	54.9	55.7	55.7	55.7	55.4	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 4000		60.9	62.1	63.0	63.0	63.0	63.1	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 3500		69.7	70.9	71.9	71.9	71.9	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 3000		80.4	81.8	83.2	83.3	83.3	83.4	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 2500		84.9	86.2	87.7	87.9	87.9	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 2000		87.1	88.9	90.4	90.7	90.7	90.8	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 1800		87.6	89.2	90.8	91.1	91.1	91.2	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1500		90.8	93.1	95.3	95.7	95.7	96.1	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1200		91.2	93.8	96.1	96.6	96.6	97.0	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000		91.8	94.4	96.9	97.4	97.4	98.2	98.4	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900		91.8	94.4	96.9	97.6	97.6	98.4	98.6	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800		91.8	94.4	96.9	97.6	97.6	98.4	98.7	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700		91.8	94.4	96.9	97.6	97.6	98.6	98.8	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		91.8	94.4	96.9	97.6	97.6	98.6	98.9	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		91.8	94.4	96.9	97.6	97.6	98.7	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		91.8	94.4	96.9	97.6	97.6	98.7	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		91.8	94.4	96.9	97.6	97.6	98.7	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		91.8	94.4	96.9	97.6	97.6	98.7	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		91.8	94.4	96.9	97.6	97.6	98.7	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		91.8	94.4	96.9	97.6	97.6	98.7	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
MONTH: APR HOURS(UT): 1400-2000

CEILING IN FEET	160	VISIBILITY IN HUNDREDS OF METERS															
		90	80	70	60	50	40	30	24	20	16	12	10	8	5	4	0
NO CLIC	37.4	37.7	38.0	38.3	38.6	38.9	39.2	39.5	39.8	40.1	40.4	40.7	41.0	41.3	41.6	41.9	42.2
GE 2000	46.7	47.0	47.3	47.6	47.9	48.2	48.5	48.8	49.1	49.4	49.7	50.0	50.3	50.6	50.9	51.2	51.5
GE 1800	47.7	48.0	48.3	48.6	48.9	49.2	49.5	49.8	50.1	50.4	50.7	51.0	51.3	51.6	51.9	52.2	52.5
GE 1600	47.7	48.0	48.3	48.6	48.9	49.2	49.5	49.8	50.1	50.4	50.7	51.0	51.3	51.6	51.9	52.2	52.5
GE 1400	47.9	48.2	48.5	48.8	49.1	49.4	49.7	50.0	50.3	50.6	50.9	51.2	51.5	51.8	52.1	52.4	52.7
GE 1200	48.2	48.5	48.8	49.1	49.4	49.7	50.0	50.3	50.6	50.9	51.2	51.5	51.8	52.1	52.4	52.7	53.0
GE 1000	51.9	52.2	52.5	52.8	53.1	53.4	53.7	54.0	54.3	54.6	54.9	55.2	55.5	55.8	56.1	56.4	56.7
GE 900	53.2	53.5	53.8	54.1	54.4	54.7	55.0	55.3	55.6	55.9	56.2	56.5	56.8	57.1	57.4	57.7	58.0
GE 800	57.0	57.3	57.6	57.9	58.2	58.5	58.8	59.1	59.4	59.7	60.0	60.3	60.6	60.9	61.2	61.5	61.8
GE 700	58.9	59.2	59.5	59.8	60.1	60.4	60.7	61.0	61.3	61.6	61.9	62.2	62.5	62.8	63.1	63.4	63.7
GE 600	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
GE 500	62.1	62.5	62.9	63.3	63.7	64.1	64.5	64.9	65.3	65.7	66.1	66.5	66.9	67.3	67.7	68.1	68.5
GE 450	66.2	66.6	67.0	67.4	67.8	68.2	68.6	69.0	69.4	69.8	70.2	70.6	71.0	71.4	71.8	72.2	72.6
GE 400	72.2	72.6	73.0	73.4	73.8	74.2	74.6	75.0	75.4	75.8	76.2	76.6	77.0	77.4	77.8	78.2	78.6
GE 350	76.6	77.0	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.2	80.6	81.0	81.4	81.8	82.2	82.6	83.0
GE 300	83.9	84.3	84.7	85.1	85.5	85.9	86.3	86.7	87.1	87.5	87.9	88.3	88.7	89.1	89.5	89.9	90.3
GE 250	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
GE 200	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
GE 150	88.2	88.6	89.0	89.4	89.8	90.2	90.6	91.0	91.4	91.8	92.2	92.6	93.0	93.4	93.8	94.2	94.6
GE 100	90.6	91.0	91.4	91.8	92.2	92.6	93.0	93.4	93.8	94.2	94.6	95.0	95.4	95.8	96.2	96.6	97.0
GE 90	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
GE 80	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
GE 70	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 60	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 50	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 40	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 30	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 20	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 10	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3
GE 0	90.9	91.3	91.7	92.1	92.5	92.9	93.3	93.7	94.1	94.5	94.9	95.3	95.7	96.1	96.5	96.9	97.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: APR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GF 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE J
NO CEIL		49.3	50.4	51.4	51.8	51.8	51.9	52.1	52.1	52.1	52.1	52.1	52.2	52.2	52.2	52.2
GE 20000		55.9	57.0	58.2	54.8	58.8	59.0	59.3	59.3	59.6	59.8	59.8	59.9	60.0	60.0	60.0
GE 18000		56.0	57.1	58.3	58.9	58.9	59.1	59.4	59.4	59.9	59.9	59.9	60.0	60.1	60.1	60.1
GE 16000		56.0	57.1	58.3	58.9	58.9	59.1	59.4	59.4	59.9	59.9	59.9	60.0	60.1	60.1	60.1
GE 14000		56.1	57.2	58.4	59.0	59.0	59.2	59.6	59.6	60.0	60.0	60.0	60.1	60.2	60.2	60.2
GE 12000		56.3	57.4	58.7	59.2	59.2	59.4	59.8	59.8	60.2	60.2	60.2	60.3	60.4	60.4	60.4
GE 10000		58.2	59.3	60.9	61.4	61.4	61.7	62.3	62.3	62.6	62.8	62.8	62.9	63.0	63.0	63.0
GE 9000		59.1	60.3	61.9	62.4	62.4	62.7	63.3	63.3	63.8	63.8	63.8	63.9	64.0	64.0	64.0
GE 8000		62.4	63.7	65.4	66.0	66.0	66.2	66.9	66.9	67.3	67.3	67.3	67.4	67.6	67.6	67.6
GE 7000		63.4	65.0	66.8	67.3	67.3	67.6	68.2	68.2	68.7	68.7	68.7	68.8	68.9	68.9	68.9
GE 6000		63.8	65.3	67.1	67.7	67.7	67.9	68.6	68.6	69.0	69.0	69.0	69.1	69.2	69.2	69.2
GE 5000		67.1	68.7	70.4	71.0	71.0	71.2	71.9	71.9	72.3	72.3	72.3	72.4	72.6	72.6	72.6
GE 4500		72.1	73.9	75.7	76.2	76.2	76.4	77.1	77.1	77.6	77.6	77.6	77.7	77.8	77.8	77.8
GE 4000		76.4	78.4	80.8	81.3	81.3	81.7	82.3	82.3	82.8	82.8	82.8	82.9	83.0	83.0	83.0
GE 3500		78.8	80.9	83.3	83.9	83.9	84.6	85.2	85.2	85.7	85.7	85.7	85.8	85.9	85.9	85.9
GE 3000		83.1	85.2	88.2	88.8	88.8	89.1	89.9	89.9	90.6	90.6	91.0	91.0	91.2	91.2	91.2
GE 2500		83.8	86.0	89.1	89.7	89.0	90.4	91.6	91.6	92.0	92.0	92.0	92.1	92.2	92.2	92.2
GE 2000		84.6	87.1	90.9	91.4	91.8	92.7	93.3	93.3	93.8	93.8	93.8	93.9	94.0	94.0	94.0
GE 1800		94.8	87.3	91.1	91.7	92.0	92.9	93.6	93.6	94.0	94.0	94.0	94.1	94.2	94.2	94.2
GE 1500		85.4	88.0	92.2	92.8	93.1	94.4	95.1	95.1	95.6	95.6	95.6	95.7	95.8	95.8	95.8
GE 1200		85.7	88.3	93.3	94.0	94.3	95.4	96.4	96.4	96.9	96.9	96.9	97.0	97.1	97.1	97.1
GE 1000		85.7	88.4	93.9	94.8	95.1	96.7	97.6	97.6	98.0	98.0	98.0	98.1	98.2	98.2	98.2
GE 900		85.7	88.4	93.9	94.8	95.1	96.7	97.9	97.9	98.3	98.3	98.3	98.4	98.6	98.6	98.6
GE 800		85.7	88.4	93.9	94.9	95.2	96.8	98.0	98.0	98.4	98.4	98.4	98.6	98.7	98.7	98.7
GE 700		85.8	88.6	94.2	95.2	95.6	97.1	98.3	98.3	98.8	98.8	98.8	98.9	99.0	99.0	99.0
GE 600		85.8	88.6	94.2	95.2	95.6	97.2	98.4	98.4	99.2	99.2	99.2	99.3	99.4	99.4	99.4
GE 500		85.8	88.6	94.2	95.2	95.6	97.3	98.7	98.7	99.4	99.4	99.4	99.7	99.8	99.8	99.8
GE 400		85.8	88.6	94.2	95.2	95.6	97.3	98.7	98.7	99.4	99.4	99.4	99.7	99.8	99.8	99.8
GE 300		85.8	88.6	94.2	95.2	95.6	97.3	98.7	98.7	99.6	99.6	99.6	99.8	99.9	99.9	99.9
GE 200		85.8	88.6	94.2	95.2	95.6	97.3	98.7	98.7	99.6	99.6	99.6	99.8	99.9	99.9	99.9
GE 100		85.8	88.6	94.2	95.2	95.6	97.3	98.7	98.7	99.6	99.6	99.6	99.8	99.9	99.9	99.9
GE J		85.8	88.6	94.2	95.2	95.6	97.3	98.7	98.7	99.6	99.6	99.6	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: APR HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 6	
NO CEIL		36.9	38.4	40.9	41.8	41.9	42.4	42.6	42.6	43.0	43.0	43.0	43.1	43.2	43.3
GE 20000		42.3	43.9	46.7	47.7	47.8	48.4	48.7	48.7	49.2	49.3	49.3	49.4	49.6	49.7
GE 18000		42.6	44.1	47.0	48.0	48.1	48.6	48.9	48.9	49.5	49.5	49.5	49.7	49.8	49.9
GE 16000		42.6	44.2	47.0	48.0	48.1	48.7	49.0	49.0	49.5	49.5	49.6	49.7	49.9	50.1
GE 14000		42.6	44.4	47.2	48.2	48.3	48.8	49.1	49.1	49.7	49.8	49.8	49.9	50.0	50.2
GE 12000		43.0	44.6	47.5	48.5	48.6	49.1	49.4	49.5	50.0	50.1	50.1	50.2	50.4	50.5
GE 10000		45.1	46.7	49.6	50.6	50.7	51.3	51.7	51.8	52.4	52.5	52.5	52.6	52.7	52.9
GE 9000		45.8	47.5	50.3	51.4	51.5	52.1	52.5	52.5	53.1	53.2	53.2	53.3	53.5	53.7
GE 8000		48.1	50.0	53.2	54.2	54.3	55.0	55.5	55.6	56.3	56.4	56.4	56.5	56.7	57.0
GE 7000		49.0	51.1	54.3	55.4	55.5	56.2	56.7	56.7	57.5	57.6	57.6	57.7	57.9	58.0
GE 6000		49.4	51.5	54.8	55.9	56.0	56.7	57.2	57.2	58.0	58.1	58.1	58.2	58.4	58.6
GE 5000		52.4	54.6	58.0	59.1	59.3	59.9	60.5	60.6	61.4	61.5	61.5	61.6	61.8	61.9
GE 4500		55.9	58.4	62.0	63.2	63.3	64.1	64.7	64.8	65.6	65.7	65.8	65.9	66.1	66.3
GE 4000		60.5	63.2	67.2	68.5	68.6	69.4	70.0	70.1	71.0	71.1	71.2	71.3	71.5	71.8
GE 3500		64.9	67.7	72.0	73.3	73.5	74.3	75.0	75.1	76.0	76.1	76.2	76.3	76.5	76.8
GE 3000		71.5	74.6	79.4	80.8	81.0	81.9	82.6	82.7	83.7	83.8	83.9	84.0	84.2	84.5
GE 2500		73.6	76.8	81.8	83.2	83.4	84.4	85.1	85.2	86.2	86.3	86.4	86.5	86.7	86.8
GE 2000		75.7	79.2	84.5	86.2	86.3	87.4	88.0	88.2	89.2	89.3	89.4	89.5	89.7	89.8
GE 1800		76.3	79.8	85.2	86.9	87.1	88.1	88.8	88.9	89.9	90.0	90.1	90.2	90.5	90.7
GE 1600		78.2	82.2	88.1	89.9	90.1	91.3	92.0	92.2	93.2	93.3	93.4	93.5	93.8	94.0
GE 1400		78.7	83.0	89.3	91.2	91.4	92.7	93.4	93.6	94.7	94.8	94.9	95.1	95.3	95.6
GE 1200		79.2	83.6	90.2	92.3	92.6	94.1	94.9	95.1	96.3	96.4	96.5	96.6	96.9	97.0
GE 900		79.2	83.7	90.4	92.6	92.8	94.3	95.1	95.4	96.8	96.9	97.0	97.1	97.4	97.7
GE 800		79.3	83.8	90.6	92.8	93.0	94.6	95.5	95.8	97.2	97.3	97.4	97.5	97.8	98.1
GE 700		79.3	83.8	90.7	92.9	93.2	94.8	95.8	96.2	97.6	97.7	97.8	98.0	98.2	98.5
GE 600		79.3	83.8	90.7	92.9	93.2	94.9	95.9	96.2	97.7	97.9	98.0	98.1	98.4	98.7
GE 500		79.3	83.8	90.7	92.9	93.2	95.1	96.2	96.5	98.1	98.2	98.3	98.5	98.8	99.1
GE 400		79.3	83.8	90.7	92.9	93.2	95.1	96.2	96.6	98.2	98.4	98.5	98.7	99.1	99.4
GE 300		79.3	83.8	90.8	92.9	93.2	95.2	96.3	96.7	98.5	98.6	98.7	99.0	99.3	99.8
GE 200		79.3	83.8	90.8	92.9	93.2	95.2	96.3	96.7	98.5	98.6	98.8	99.0	99.3	99.9
GE 100		79.3	83.8	90.8	92.9	93.2	95.2	96.3	96.7	98.5	98.6	98.8	99.0	99.3	100.0
GE 0		79.3	83.8	90.8	92.9	93.2	95.2	96.3	96.7	98.5	98.6	98.8	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 7199

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
 MONTH: MAY HOURS (LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 17	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	48.7	50.6	52.6	53.1	53.1	53.5	53.7	53.7	54.3	54.3	54.4	54.6	54.6	55.1	55.2	
GE 20000	52.3	54.2	56.5	56.8	56.8	57.2	57.3	57.3	58.0	58.0	58.1	58.3	58.3	58.3	58.7	58.8
GE 18000	52.3	54.2	56.5	56.8	56.8	57.2	57.3	57.3	58.0	58.0	58.1	58.3	58.3	58.3	58.7	58.8
GE 16000	52.3	54.2	56.5	56.8	56.8	57.2	57.3	57.3	58.0	58.0	58.1	58.3	58.3	58.3	58.7	58.8
GE 14000	52.6	54.5	56.8	57.1	57.1	57.5	57.6	57.6	58.3	58.3	58.4	58.6	58.6	59.0	59.1	
GE 12000	52.7	54.6	57.1	57.4	57.4	57.8	58.0	58.0	58.6	58.6	58.7	58.9	58.9	59.4	59.5	
GE 10000	55.9	58.1	60.8	61.1	61.1	61.5	61.6	61.6	62.3	62.3	62.4	62.6	62.6	63.0	63.1	
GE 9000	56.7	58.8	61.5	61.8	61.8	62.3	62.4	62.4	63.0	63.0	63.1	63.3	63.3	63.8	63.9	
GE 8000	60.8	62.9	65.7	66.0	66.0	66.5	66.6	66.6	67.2	67.2	67.3	67.5	67.5	68.0	68.1	
GE 7000	63.9	66.0	69.0	69.5	69.5	70.0	70.1	70.1	70.8	70.8	70.9	71.3	71.3	71.7	71.8	
GE 6000	64.1	66.2	69.2	69.7	69.7	70.2	70.3	70.3	71.0	71.0	71.1	71.5	71.5	71.9	72.0	
GE 5000	67.4	69.6	72.7	73.1	73.1	73.7	73.8	73.8	74.4	74.4	74.6	75.1	75.1	75.5	75.6	
GE 4500	71.1	73.5	76.9	77.3	77.3	77.8	78.0	78.0	78.6	78.6	78.9	79.4	79.4	79.8	80.0	
GE 4000	73.8	76.5	80.0	80.4	80.4	81.0	81.1	81.1	81.7	81.7	82.0	82.5	82.5	82.9	83.1	
GE 3500	77.6	80.6	84.5	84.9	84.9	85.5	85.6	85.6	86.2	86.2	86.6	87.0	87.0	87.4	87.6	
GE 3000	80.1	83.2	87.3	87.7	87.7	88.6	88.7	88.7	89.5	89.5	89.8	90.2	90.2	90.6	90.9	
GE 2500	80.4	83.7	88.1	88.5	88.5	89.4	89.5	89.5	90.2	90.2	90.5	91.0	91.0	91.4	91.6	
GE 2000	91.8	85.2	89.7	90.2	90.2	91.2	91.3	91.3	92.0	92.0	92.4	92.8	92.8	93.2	93.4	
GE 1800	82.4	85.7	90.2	90.8	90.9	91.9	92.0	92.0	92.6	92.6	93.1	93.5	93.5	94.0	94.2	
GE 1500	83.4	86.9	91.9	92.5	92.6	93.7	94.0	94.0	95.1	95.1	95.4	95.8	95.8	96.2	96.5	
GE 1200	83.7	87.2	92.5	93.1	93.2	94.6	95.1	95.1	96.3	96.3	96.7	97.1	97.1	97.5	97.7	
GE 1000	84.1	87.8	93.3	94.0	94.2	95.6	96.2	96.2	97.5	97.5	97.8	98.3	98.3	98.7	98.9	
GE 900	84.1	88.0	93.4	94.1	94.3	95.7	96.3	96.3	97.6	97.6	98.0	98.4	98.4	98.8	99.0	
GE 800	84.2	88.1	93.7	94.3	94.5	96.0	96.7	96.7	98.0	98.0	98.3	98.7	98.7	99.1	99.4	
GE 700	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.2	98.2	98.5	98.9	98.9	99.4	99.6	
GE 600	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.7	99.9	
GE 500	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.7	99.9	
GE 400	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.7	99.9	
GE 300	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.7	99.9	
GE 200	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.7	99.9	
GE 100	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.7	99.9	
GE 0	84.2	88.1	93.9	94.5	94.7	96.2	96.9	96.9	98.5	98.5	98.8	99.2	99.2	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAY HOURS (LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 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	37.4	42.0	43.5	44.4	44.5	45.3	45.3	45.3	47.2	47.5	47.5	48.1	48.8	49.2	49.8	
GE 20000	39.8	44.5	46.5	47.3	47.4	48.3	48.4	48.4	50.3	50.6	50.6	51.2	51.9	52.4	52.9	
GE 18000	39.8	44.5	46.5	47.3	47.4	48.3	48.4	48.4	50.3	50.6	50.6	51.2	51.9	52.4	52.9	
GE 16000	39.8	44.5	46.5	47.3	47.4	48.3	48.4	48.4	50.3	50.6	50.6	51.2	51.9	52.4	52.9	
GE 14000	40.0	44.7	46.7	47.6	47.7	48.6	48.7	48.7	50.6	51.0	51.0	51.5	52.3	52.7	53.2	
GE 12000	40.2	44.9	47.0	48.0	46.1	48.9	49.0	49.0	51.0	51.3	51.3	51.8	52.6	53.0	53.5	
GE 10000	43.0	47.8	49.9	50.9	51.0	51.8	51.9	51.9	53.9	54.2	54.2	54.7	55.5	55.9	56.5	
GE 9000	43.6	48.6	50.6	51.6	51.7	52.6	52.7	52.7	54.6	54.9	54.9	55.5	56.2	56.7	57.2	
GE 8000	47.8	52.8	55.2	56.1	56.2	57.1	57.3	57.3	59.2	59.6	59.6	60.1	60.9	61.3	61.8	
GE 7000	49.5	54.5	57.0	58.3	58.4	59.4	59.7	59.7	61.6	61.9	61.9	62.5	63.2	63.9	64.4	
GE 6000	49.8	54.8	57.4	58.7	58.8	59.8	60.1	60.1	62.0	62.4	62.4	62.9	63.7	64.3	64.8	
GE 5000	53.1	58.2	61.2	62.6	62.7	63.7	64.0	64.0	65.9	66.2	66.2	66.8	67.5	68.2	68.7	
GE 4500	56.7	62.5	65.5	66.9	67.0	68.0	68.3	68.3	70.3	70.6	70.6	71.4	72.2	72.9	73.5	
GE 4000	62.2	68.0	71.0	72.4	72.5	73.4	73.8	73.8	76.0	76.3	76.3	77.1	77.8	78.7	79.4	
GE 3500	65.4	71.7	75.2	76.6	76.7	77.6	78.0	78.0	80.2	80.5	80.5	81.3	82.0	83.0	83.7	
GE 3000	68.2	74.5	78.3	79.8	79.9	80.9	81.3	81.3	83.5	83.9	83.9	84.6	85.4	86.3	87.0	
GE 2500	70.0	76.3	80.1	81.6	81.7	82.7	83.1	83.1	85.4	85.7	85.7	86.5	87.2	88.2	88.6	
GE 2000	71.6	78.0	82.3	83.8	83.9	84.9	85.4	85.4	87.6	88.0	88.0	88.7	89.5	90.4	91.1	
GE 1800	71.9	78.3	82.8	84.3	84.4	85.8	86.2	86.2	88.5	88.8	88.8	89.6	90.3	91.3	91.9	
GE 1500	73.2	79.7	84.5	86.0	86.2	88.2	88.7	88.7	91.2	91.5	91.5	92.3	93.0	94.0	94.6	
GE 1200	73.8	80.2	85.3	86.9	87.2	89.2	90.0	90.0	92.5	92.8	92.8	93.5	94.3	95.3	95.9	
GE 1000	74.1	80.6	85.9	88.0	88.3	90.3	91.1	91.1	93.5	93.9	93.9	94.6	95.4	96.3	97.0	
GE 900	74.2	80.8	86.0	88.1	88.4	90.4	91.3	91.3	93.8	94.1	94.1	94.8	95.6	96.6	97.2	
GE 800	74.5	81.1	86.5	88.6	88.9	91.3	92.3	92.3	94.7	95.1	95.1	95.8	96.6	97.5	98.2	
GE 700	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.5	95.8	95.8	96.6	97.3	98.3	98.9	
GE 600	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.6	96.1	96.1	96.9	97.6	98.6	99.2	
GE 500	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.6	96.1	96.1	96.9	97.6	98.6	99.2	
GE 400	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.6	96.1	96.1	96.9	97.6	98.6	99.2	
GE 300	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.6	96.1	96.1	96.9	97.6	98.6	99.2	
GE 200	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.7	96.2	96.2	97.0	97.8	99.2	99.9	
GE 100	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.7	96.2	96.2	97.0	97.8	99.2	99.9	
GE 0	74.6	81.3	87.2	89.4	89.7	92.0	93.0	93.0	95.7	96.2	96.2	97.0	97.8	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: PAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAY HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GF 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GL 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	23.9	27.4	32.7	35.1	35.6	36.2	37.0	37.4	38.1	38.1	38.1	38.1	38.3	39.0	39.9	40.3
GE 20000	25.7	29.2	34.8	37.3	37.8	38.5	39.4	39.9	40.6	40.8	40.8	41.0	41.8	42.8	43.3	
GE 18000	25.8	29.4	34.9	37.4	38.0	38.6	39.5	40.0	40.8	40.9	40.9	41.1	41.9	42.9	43.4	
GE 16000	25.8	29.5	35.1	37.5	38.1	38.7	39.6	40.1	40.9	41.0	41.0	41.2	42.0	43.0	43.5	
GE 14000	25.8	29.5	35.3	37.7	38.3	38.9	39.8	40.3	41.2	41.3	41.3	41.5	42.4	43.3	43.9	
GF 12000	26.2	29.9	35.7	38.4	38.9	39.6	40.4	41.0	41.8	41.9	41.9	42.2	43.0	44.0	44.5	
GE 10000	28.6	32.3	38.5	41.2	41.7	42.4	43.2	43.8	44.7	44.8	44.8	45.1	45.9	46.9	47.4	
GF 9000	29.5	33.2	39.7	42.4	42.9	43.5	44.4	45.1	46.0	46.1	46.1	46.3	47.2	48.2	48.7	
GE 8000	34.2	38.7	46.0	48.9	49.6	50.4	51.3	51.9	53.1	53.2	53.2	53.5	54.4	55.4	55.9	
GE 7000	35.2	39.9	47.4	50.4	51.1	52.0	52.9	53.5	54.7	54.8	54.8	55.2	56.0	57.1	57.7	
GE 6000	35.9	40.8	48.4	51.4	52.0	53.0	53.9	54.5	55.7	55.8	55.8	56.1	57.0	58.1	58.7	
GE 5000	38.8	43.9	51.9	55.1	55.7	56.7	57.5	58.2	59.5	59.6	59.7	60.0	60.9	61.9	62.6	
GE 4500	41.1	46.7	55.1	59.3	58.9	60.0	60.9	61.5	63.1	63.3	63.4	63.8	64.6	65.8	66.6	
GE 4000	45.3	51.9	61.1	64.8	65.5	66.9	67.8	68.6	70.4	70.6	70.8	71.1	71.9	73.1	73.9	
GE 3500	47.4	54.4	64.1	68.4	69.0	70.5	71.5	72.3	74.1	74.3	74.4	74.7	75.6	76.8	77.5	
GE 3000	50.0	57.2	68.3	73.1	73.8	75.5	76.6	77.4	79.4	79.6	79.7	80.0	80.9	82.0	82.8	
GE 2500	51.3	58.5	69.7	74.5	75.2	76.9	78.1	78.9	81.1	81.3	81.4	81.7	82.6	83.8	84.5	
GF 2000	53.9	61.3	72.6	77.5	78.3	80.0	81.2	82.0	84.2	84.4	84.5	84.8	85.7	86.9	87.6	
GE 1800	54.1	61.5	72.9	78.0	78.7	80.5	81.7	82.6	84.7	84.9	85.1	85.4	86.2	87.4	88.2	
GE 1500	56.0	63.4	75.6	81.3	82.0	83.9	85.1	86.1	88.3	88.5	88.6	88.9	89.8	91.0	91.7	
GE 1200	58.9	64.4	76.8	82.5	83.2	85.1	86.2	87.3	89.5	89.7	89.8	90.1	91.0	92.3	93.0	
GE 1000	57.5	65.1	77.8	84.0	84.7	86.8	88.0	89.0	91.3	91.5	91.6	91.9	92.8	94.1	94.9	
GE 900	57.5	65.1	77.8	84.1	84.8	86.9	88.1	89.1	91.4	91.6	91.7	92.0	92.9	94.2	94.9	
GE 800	57.5	65.1	78.0	84.2	84.9	87.1	88.5	89.7	92.2	92.4	92.5	92.8	93.7	94.9	95.7	
GE 700	57.6	65.4	78.6	85.1	85.9	88.1	89.5	90.6	93.1	93.4	93.5	93.9	94.7	96.0	96.8	
GE 600	57.6	65.4	78.6	85.2	86.0	88.2	89.6	91.0	93.5	93.9	94.0	94.3	95.2	96.5	97.2	
GE 500	57.6	65.4	78.6	85.4	86.2	88.4	90.0	91.4	94.0	94.3	94.4	94.7	95.6	96.9	97.6	
GE 400	57.6	65.4	78.6	85.4	86.2	88.4	90.0	91.4	94.1	94.4	94.5	94.8	95.7	97.0	97.7	
GE 300	57.6	65.4	78.6	85.4	86.2	88.4	90.0	91.4	94.2	94.5	94.6	95.2	96.0	97.4	98.2	
GE 200	57.6	65.4	78.6	85.4	86.2	88.4	90.0	91.4	94.2	94.5	94.6	95.2	96.2	98.3	99.6	
GE 100	57.6	65.4	78.6	85.4	86.2	88.4	90.0	91.4	94.2	94.5	94.6	95.3	96.3	98.4	99.9	
GE 0	57.6	65.4	78.6	85.4	86.2	88.4	90.0	91.4	94.2	94.5	94.6	95.3	96.3	98.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 176140 STATION NAME: RANSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAY HOURS (LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CLIL		33.0	34.5	37.5	38.0	38.1	39.2	38.3	38.3	38.5	38.5	38.5	38.5	38.7	38.8	38.8
GE 20000		37.2	38.8	42.4	43.2	43.3	43.5	43.7	43.7	43.9	43.9	43.9	43.9	44.1	44.2	44.2
GE 18000		37.4	39.1	42.9	43.8	43.9	44.1	44.2	44.2	44.4	44.4	44.4	44.4	44.6	44.7	44.7
GE 16000		37.4	39.1	42.9	43.8	43.9	44.1	44.2	44.2	44.4	44.4	44.4	44.4	44.6	44.7	44.7
GE 14000		37.5	39.2	43.1	44.2	44.3	44.5	44.7	44.7	44.9	44.9	44.9	44.9	45.2	45.3	45.3
GE 12000		38.0	40.0	44.2	45.4	45.5	45.7	45.9	45.9	46.1	46.1	46.1	46.1	46.3	46.5	46.5
GE 10000		39.8	41.8	46.1	47.3	47.4	47.6	47.8	47.8	48.1	48.1	48.1	48.1	48.3	48.4	48.4
GE 9000		41.0	43.0	47.3	48.5	48.6	48.8	49.0	49.0	49.2	49.2	49.2	49.2	49.5	49.6	49.6
GE 8000		45.5	48.0	52.5	53.8	53.9	54.4	54.6	54.6	54.8	54.8	54.8	54.8	55.1	55.2	55.2
GE 7000		46.9	49.4	54.3	55.7	55.8	56.5	56.7	56.7	56.9	56.9	56.9	56.9	57.1	57.2	57.2
GE 6000		47.3	49.8	54.7	56.1	56.2	56.9	57.1	57.1	57.3	57.3	57.3	57.3	57.5	57.6	57.6
GE 5000		49.6	52.4	57.5	59.4	59.5	60.4	63.6	60.6	60.9	60.9	60.9	60.9	61.1	61.2	61.2
GE 4500		51.4	54.4	59.9	61.8	61.9	63.0	63.2	63.2	63.4	63.4	63.4	63.4	63.7	63.8	63.8
GE 4000		54.8	58.3	64.3	66.2	66.5	67.8	68.3	68.3	68.6	68.6	68.6	68.6	68.8	68.9	68.9
GE 3500		57.1	60.6	67.3	69.8	70.0	71.4	71.8	71.8	72.4	72.4	72.4	72.4	72.6	72.7	72.7
GE 3000		54.6	68.5	75.6	78.4	78.6	80.1	80.5	80.5	81.1	81.1	81.1	81.1	81.3	81.4	81.4
GE 2500		67.1	71.0	78.5	81.3	81.5	83.0	83.4	83.4	84.0	84.0	84.0	84.0	84.2	84.3	84.3
GE 2000		70.1	74.2	82.0	85.2	85.5	87.0	87.4	87.4	88.0	88.0	88.0	88.0	88.2	88.3	88.3
GE 1800		70.4	74.5	82.5	85.6	85.9	87.4	87.8	87.8	88.4	88.4	88.4	88.4	88.6	88.7	88.7
GE 1500		72.7	77.0	85.4	89.1	89.5	91.1	91.6	91.7	92.3	92.3	92.3	92.3	92.5	92.6	92.6
GE 1200		73.1	77.6	86.6	91.0	91.4	93.2	93.9	94.0	94.5	94.5	94.5	94.5	94.7	94.8	94.8
GE 1000		74.1	78.7	88.0	92.5	92.9	94.8	95.5	95.6	96.1	96.1	96.1	96.1	96.3	96.5	96.5
GE 900		74.4	79.0	88.4	93.0	93.4	95.4	96.0	96.1	96.7	96.7	96.7	96.7	96.9	97.0	97.0
GE 800		74.4	79.1	88.5	93.1	93.7	95.7	96.5	96.6	97.1	97.1	97.1	97.1	97.3	97.4	97.4
GE 700		74.4	79.2	88.6	93.7	94.4	96.5	97.2	97.3	98.1	98.1	98.1	98.1	98.3	98.4	98.4
GE 600		74.4	79.2	88.6	93.7	94.6	96.7	97.4	97.5	98.3	98.3	98.3	98.3	98.5	98.6	98.6
GE 500		74.4	79.2	88.6	93.8	94.7	96.9	98.0	98.2	99.2	99.2	99.2	99.2	99.5	99.6	99.6
GE 400		74.4	79.2	88.6	93.8	94.7	96.9	98.0	98.2	99.4	99.4	99.4	99.4	99.6	99.7	99.7
GE 300		74.4	79.2	88.6	93.8	94.7	96.9	98.0	98.2	99.5	99.5	99.5	99.5	99.7	99.8	99.8
GE 200		74.4	79.2	88.6	93.8	94.7	96.9	98.0	98.2	99.5	99.5	99.5	99.5	99.8	99.9	100.0
GE 100		74.4	79.2	88.6	93.8	94.7	96.9	98.0	98.2	99.5	99.5	99.5	99.5	99.8	99.9	100.0
GE 0		74.4	79.2	88.6	93.8	94.7	96.9	98.0	98.2	99.5	99.5	99.5	99.5	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAY HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		35.3	35.5	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		43.6	44.2	44.5	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		44.2	44.6	44.9	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 16000		44.3	44.7	45.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
GE 14000		44.3	44.7	45.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
GE 12000		44.5	45.2	45.5	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 10000		47.1	47.7	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 9000		47.7	48.4	48.7	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 8000		50.1	50.8	51.1	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 7000		51.3	52.0	52.5	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 6000		52.0	52.6	53.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 5000		54.3	55.1	55.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 4500		57.1	57.8	58.6	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 4000		62.0	62.8	63.9	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 3500		69.5	70.2	71.8	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 3000		80.6	81.6	83.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 2500		83.3	84.3	86.3	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2000		85.7	87.1	89.4	91.0	91.0	91.0	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1600		86.2	87.6	89.9	91.5	91.5	91.5	91.6	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1400		88.2	89.7	92.0	93.8	93.8	93.8	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1200		89.5	91.3	94.0	95.8	95.8	95.9	96.0	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1000		90.2	92.2	95.3	97.3	97.3	97.4	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 900		90.3	92.3	95.4	97.5	97.5	97.6	97.7	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 800		90.3	92.3	95.5	97.6	97.6	97.8	98.0	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700		90.3	92.3	95.6	97.8	97.8	98.1	98.4	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 600		90.3	92.3	95.6	97.8	98.0	98.4	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500		90.3	92.3	95.6	98.0	98.3	98.8	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400		90.3	92.3	95.6	98.0	98.3	98.8	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300		90.3	92.3	95.6	98.0	98.3	98.8	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		90.3	92.3	95.6	98.0	98.3	98.8	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		90.3	92.3	95.6	98.0	98.3	98.8	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		90.3	92.3	95.6	98.0	98.3	98.8	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GF 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	35.2	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
GE 20000	43.7	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
GE 18000	44.3	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 16000	44.5	44.7	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	44.5	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE 12000	45.1	45.4	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	47.2	47.6	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	48.5
GE 9000	48.0	48.4	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.2
GE 8000	52.0	52.5	53.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.7
GE 7000	53.3	53.8	54.7	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.2
GF 6000	54.5	54.9	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.3
GF 5000	57.1	57.5	58.9	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6
GE 4500	60.0	60.4	61.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5
GE 4000	66.8	67.2	68.9	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6
GE 3500	72.9	73.5	75.5	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1
GE 3000	84.1	85.1	87.3	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	88.0
GE 2500	87.4	88.4	90.8	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5
GE 2000	91.0	91.9	94.5	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4
GE 1800	91.1	92.0	94.9	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.6
GE 1500	92.2	93.3	96.6	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4
GE 1200	92.8	94.1	97.5	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.8
GE 1000	93.0	94.3	97.7	98.5	98.5	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
GF 900	93.0	94.3	97.8	98.6	98.6	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2
GF 800	93.0	94.4	98.0	98.7	98.7	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4
GE 700	93.0	94.4	98.0	98.7	98.8	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
GE 600	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
GE 500	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 400	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 300	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 200	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 100	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 0	93.0	94.4	98.0	98.7	98.8	99.1	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAY HOURS(LST): 1900-2000

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		41.0	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	
GE 20000		49.6	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	
GE 18000		49.8	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	
GE 16000		49.9	50.3	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 14000		50.1	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	
GE 12000		51.2	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	
GE 10000		54.0	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	
GE 9000		55.9	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	
GE 8000		61.6	62.4	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	
GE 7000		64.4	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	
GE 6000		64.9	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	
GE 5000		68.0	68.7	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	
GE 4500		71.8	72.6	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
GE 4000		75.5	76.3	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	
GE 3500		81.8	83.0	83.9	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	
GE 3000		88.3	89.6	90.8	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	
GE 2500		89.2	90.6	91.8	92.3	92.4	92.4	92.4	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	
GE 2000		91.2	92.9	94.2	94.6	94.7	94.7	94.7	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	
GE 1800		91.6	93.3	94.7	95.3	95.4	95.4	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
GE 1500		93.7	95.5	97.0	97.6	97.7	97.7	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	
GE 1200		94.1	95.9	97.4	98.1	98.3	98.3	98.3	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
GE 1000		94.1	95.9	97.4	98.1	98.4	98.4	98.5	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
GE 900		94.1	95.9	97.6	98.3	98.6	98.7	98.8	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
GE 800		94.1	95.9	97.6	98.3	98.6	98.7	98.9	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
GE 700		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 600		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 500		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 400		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 300		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 200		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 100		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 0		94.1	95.9	97.6	98.5	98.8	98.9	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: MAY HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	44.7	45.3	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 20000	51.5	52.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 18000	51.6	52.2	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 16000	51.6	52.2	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 14000	51.8	52.4	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 12000	51.9	52.6	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 10000	56.8	57.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	56.7
GE 9000	57.8	58.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 8000	62.4	63.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7
GE 7000	65.3	66.2	67.8	67.8	67.8	67.8	67.8	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 6000	66.1	67.1	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 5000	70.6	71.6	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 4500	74.6	75.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.8
GE 4000	79.4	80.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.9	82.9	82.9	82.9	82.9	82.9	83.0
GE 3500	82.4	83.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.9	86.9	86.9	86.9	86.9	86.9	87.3
GE 3000	86.1	87.6	90.5	90.5	90.5	90.5	90.5	90.5	90.5	91.8	91.8	91.8	91.8	91.8	91.8	92.3
GE 2500	87.0	88.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9	92.9	92.9	92.9	93.3
GE 2000	88.4	90.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	94.8	94.8	94.8	94.8	94.8	94.8	95.4
GE 1800	88.7	90.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	95.3	95.3	95.3	95.3	95.3	95.3	95.8
GE 1500	89.4	91.5	95.4	95.4	95.4	95.4	95.4	95.4	95.4	96.9	96.9	96.9	96.9	96.9	96.9	97.6
GE 1200	89.5	91.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	97.5	97.5	97.5	97.5	97.5	97.5	98.4
GE 1000	89.6	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	98.1	98.1	98.1	98.1	98.1	98.1	98.8
GE 900	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	98.4	98.4	98.4	98.4	98.4	98.4	99.1
GE 800	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	98.5	98.5	98.5	98.5	98.5	98.5	99.2
GE 700	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	98.8	98.8	98.8	98.8	98.8	98.8	99.6
GE 600	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	98.9	98.9	98.9	98.9	98.9	98.9	99.7
GE 500	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	99.6	99.6	99.6	99.6	99.6	99.6	99.7
GE 400	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 300	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 200	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 100	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 01	89.6	92.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: MAY HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		37.4	39.0	40.7	41.2	41.3	41.5	41.6	41.7	42.1	42.1	42.2	42.3	42.5	42.7	42.8
GE 2000		42.9	44.6	46.5	47.1	47.2	47.5	47.6	47.7	48.1	48.2	48.2	48.3	48.5	48.8	48.9
GE 1800		43.1	44.8	46.7	47.4	47.4	47.7	47.9	47.9	48.4	48.4	48.4	48.6	48.8	49.0	49.2
GE 1600		43.2	44.9	46.8	47.4	47.5	47.8	47.9	48.0	48.5	48.5	48.5	48.6	48.9	49.1	49.3
GE 1400		43.3	45.0	47.0	47.7	47.8	48.0	48.2	48.3	48.7	48.8	48.8	48.9	49.1	49.4	49.5
GE 1200		43.7	45.6	47.6	48.3	48.4	48.7	48.9	48.9	49.4	49.4	49.4	49.6	49.8	50.0	50.2
GE 1000		46.5	48.5	50.7	51.4	51.5	51.7	51.9	52.0	52.4	52.5	52.5	52.6	52.9	53.1	53.3
GE 900		47.5	49.5	51.7	52.4	52.5	52.8	53.0	53.0	53.5	53.6	53.6	53.7	53.9	54.2	54.3
GE 800		51.8	53.9	56.4	57.2	57.3	57.6	57.8	57.9	58.4	58.5	58.5	58.6	58.9	59.1	59.2
GE 700		53.7	55.9	58.5	59.5	59.6	60.0	60.1	60.2	60.7	60.8	60.8	61.0	61.2	61.5	61.7
GE 600		54.3	56.5	59.2	60.1	60.2	60.6	60.8	60.9	61.4	61.5	61.5	61.6	61.9	62.2	62.3
GE 500		57.4	59.6	62.6	63.7	63.8	64.2	64.4	64.5	65.0	65.1	65.1	65.3	65.5	65.8	66.0
GE 450		60.5	62.9	66.0	67.2	67.3	67.7	67.9	68.0	68.6	68.7	68.7	68.9	69.2	69.5	69.7
GE 400		65.0	67.7	71.1	72.3	72.4	72.9	73.2	73.3	73.9	74.0	74.1	74.2	74.5	74.8	75.0
GE 350		69.3	72.3	76.1	77.4	77.6	78.2	78.4	78.5	79.2	79.3	79.3	79.5	79.7	80.1	80.3
GE 300		75.3	78.4	82.7	84.2	84.3	85.1	85.3	85.4	86.2	86.3	86.3	86.5	86.7	87.1	87.3
GE 250		77.0	80.2	84.6	86.2	86.3	87.1	87.3	87.4	88.3	88.3	88.4	88.6	88.8	89.1	89.4
GE 200		79.2	82.6	87.2	88.9	89.1	89.9	90.1	90.3	91.1	91.2	91.2	91.4	91.6	92.0	92.2
GE 180		79.6	82.9	87.7	89.4	89.6	90.4	90.7	90.9	91.7	91.7	91.8	92.0	92.2	92.6	92.8
GE 150		81.1	84.6	89.8	91.7	91.9	92.8	93.1	93.3	94.2	94.3	94.4	94.5	94.8	95.1	95.3
GE 120		81.7	85.3	90.7	92.7	93.0	94.0	94.4	94.7	95.6	95.7	95.8	95.9	96.2	96.5	96.7
GE 100		82.1	85.8	91.4	93.6	93.9	95.0	95.4	95.7	96.7	96.7	96.8	97.0	97.2	97.5	97.8
GE 90		82.2	85.9	91.6	93.8	94.1	95.2	95.7	95.9	96.9	97.0	97.0	97.2	97.4	97.8	98.0
GE 80		82.2	86.0	91.7	94.0	94.3	95.5	96.0	96.3	97.3	97.3	97.4	97.6	97.8	98.2	98.4
GE 70		82.2	86.1	92.0	94.3	94.7	95.9	96.5	96.8	97.8	97.9	97.9	98.1	98.3	98.7	98.9
GE 60		82.2	86.1	92.0	94.3	94.7	96.0	96.6	96.9	98.0	98.1	98.2	98.3	98.6	98.9	99.2
GE 50		82.2	86.1	92.0	94.4	94.8	96.1	96.8	97.2	98.3	98.4	98.5	98.7	98.9	99.2	99.5
GE 40		82.2	86.1	92.0	94.4	94.8	96.1	96.8	97.2	98.3	98.5	98.5	98.7	98.9	99.3	99.5
GE 30		82.2	86.1	92.0	94.4	94.8	96.1	96.8	97.2	98.4	98.5	98.6	98.8	99.0	99.4	99.6
GE 20		82.2	86.1	92.0	94.4	94.8	96.1	96.8	97.2	98.5	98.6	98.6	98.8	99.1	99.6	99.9
GE 10		82.2	86.1	92.0	94.4	94.8	96.1	96.8	97.2	98.5	98.6	98.6	98.8	99.1	99.6	100.0
GE 0		82.2	86.1	92.0	94.4	94.8	96.1	96.8	97.2	98.5	98.6	98.6	98.8	99.1	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUN HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	48.2	50.3	51.0	51.1	51.1	51.9	51.9	52.1	52.8	53.0	53.0	53.2	53.3	53.9	54.1	
GE 20000	52.1	54.7	55.7	55.8	55.8	56.6	56.6	56.9	57.7	57.9	57.9	58.1	58.2	58.8	59.0	
GE 18000	52.1	54.7	55.7	55.8	55.8	56.6	56.6	56.9	57.7	57.9	57.9	58.1	58.2	58.8	59.0	
GE 16000	52.1	54.7	55.7	55.8	55.8	56.6	56.6	56.9	57.7	57.9	57.9	58.1	58.2	58.8	59.0	
GE 14000	52.3	54.9	55.9	56.0	56.0	56.8	56.8	57.1	57.9	58.1	58.1	58.3	58.4	59.0	59.2	
GE 12000	52.8	55.3	56.3	56.4	56.4	57.2	57.2	57.6	58.3	58.6	58.6	58.8	58.9	59.4	59.7	
GE 10000	55.4	58.2	59.4	59.6	59.6	60.4	60.4	60.8	61.6	61.8	61.8	62.0	62.1	62.8	63.0	
GE 9000	56.0	58.9	60.4	60.6	60.6	61.4	61.4	61.8	62.6	62.8	62.8	63.0	63.2	63.9	64.1	
GE 8000	59.9	62.8	64.6	64.8	64.8	65.7	65.7	66.0	66.8	67.0	67.0	67.2	67.4	68.1	68.3	
GE 7000	60.4	63.3	65.1	65.3	65.3	66.2	66.2	66.6	67.3	67.6	67.6	67.8	68.0	68.7	68.9	
GE 6000	60.4	63.3	65.1	65.3	65.3	66.2	66.2	66.6	67.3	67.6	67.6	67.8	68.0	68.7	68.9	
GE 5000	64.2	67.4	69.7	69.9	69.9	70.9	70.9	71.2	72.1	72.3	72.3	72.7	72.9	73.6	73.8	
GE 4500	68.9	72.7	75.7	76.0	76.0	77.0	77.0	77.3	78.3	78.6	78.6	78.9	79.1	79.9	80.1	
GE 4000	73.8	77.6	80.9	81.2	81.2	82.2	82.2	82.6	83.6	83.8	83.8	84.1	84.3	85.1	85.3	
GE 3500	77.9	81.9	85.6	85.9	85.9	86.9	86.9	87.2	88.2	88.4	88.4	88.8	89.0	89.8	90.0	
GE 3000	79.4	83.7	87.6	87.9	87.9	88.9	88.9	89.2	90.3	90.6	90.6	90.9	91.1	91.9	92.1	
GE 2500	80.3	84.7	89.2	89.6	89.6	90.9	90.9	91.3	92.7	92.9	92.9	93.2	93.4	94.2	94.4	
GE 2000	82.0	86.4	91.2	91.9	91.9	93.6	93.6	94.0	95.3	95.6	95.6	95.9	96.1	96.9	97.1	
GE 1800	82.2	86.7	91.4	92.1	92.1	93.8	93.8	94.2	95.7	95.9	95.9	96.2	96.4	97.2	97.4	
GE 1500	82.8	87.3	92.3	93.1	93.1	94.9	94.9	95.3	96.8	97.0	97.0	97.3	97.6	98.3	98.6	
GE 1200	82.8	87.4	92.6	93.3	93.3	95.1	95.1	95.6	97.0	97.2	97.2	97.6	97.8	98.6	98.8	
GE 1000	82.9	87.6	92.7	93.6	93.6	95.3	95.3	95.8	97.2	97.4	97.4	97.8	98.0	98.8	99.0	
GE 900	83.2	87.9	93.0	93.9	93.9	95.7	95.7	96.1	97.6	97.8	97.8	98.1	98.3	99.1	99.3	
GE 800	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.4	99.2	99.4	
GE 700	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.4	99.2	99.4	
GE 600	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.4	99.2	99.4	
GE 500	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.4	99.2	99.6	
GE 400	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.4	99.2	99.6	
GE 300	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.6	99.3	99.7	
GE 200	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.6	99.3	99.7	
GE 100	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.6	99.3	99.9	
GE 0	83.2	87.9	93.1	94.0	94.0	95.8	95.8	96.2	97.7	97.9	97.9	98.2	98.6	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR FATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUN HOURS(LST): 0300-0500

CEILING IN FLEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GL 80	GE 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL	36.2	41.3	45.3	46.4	46.4	47.3	47.7	47.9	48.8	48.9	48.9	49.9	50.0	50.9	51.2	
GE 20000	38.1	43.4	47.7	48.8	48.8	49.8	50.1	50.4	51.7	51.8	51.8	52.8	52.9	53.8	54.1	
GE 18000	38.1	43.4	47.7	48.8	48.8	49.8	50.1	50.4	51.7	51.8	51.8	52.8	52.9	53.8	54.1	
GE 16000	38.1	43.4	47.7	48.8	48.8	49.8	50.1	50.4	51.7	51.8	51.8	52.8	52.9	53.8	54.1	
GE 14000	38.1	43.4	47.7	48.8	48.8	49.8	50.1	50.4	51.7	51.8	51.8	52.8	52.9	53.8	54.1	
GE 12000	38.4	43.8	48.0	49.1	49.1	50.1	50.4	50.8	52.0	52.1	52.1	53.1	53.2	54.1	54.4	
GE 10000	40.9	46.6	50.8	51.9	51.9	53.1	53.4	53.8	55.0	55.1	55.1	56.1	56.2	57.1	57.4	
GE 9000	41.8	47.4	51.8	52.9	52.9	54.1	54.4	54.8	56.0	56.1	56.1	57.1	57.2	58.1	58.4	
GF 8000	46.3	52.3	56.8	58.1	58.1	59.4	59.8	60.1	61.7	61.8	61.8	62.8	62.9	63.8	64.1	
GE 7000	47.1	53.2	57.8	59.1	59.1	60.4	60.8	61.1	62.7	62.8	62.8	63.8	63.9	64.8	65.1	
GE 6000	47.2	53.3	57.9	59.2	59.2	60.6	60.9	61.2	62.8	62.9	62.9	63.9	64.0	64.9	65.2	
GE 5000	50.8	57.3	62.1	63.4	63.4	64.8	65.1	65.4	67.1	67.2	67.2	68.3	68.6	69.6	70.0	
GE 4500	54.1	61.4	66.7	68.1	68.2	69.9	70.2	70.6	72.2	72.3	72.3	73.4	73.7	74.7	75.1	
GE 4000	59.3	66.9	72.7	74.2	74.3	76.0	76.3	76.7	78.3	78.4	78.4	79.6	79.8	80.8	81.2	
GE 3500	63.6	71.2	77.3	79.0	79.1	80.8	81.3	81.7	83.3	83.4	83.4	84.6	84.8	85.9	86.3	
GE 3000	66.4	74.3	80.7	82.7	82.9	84.6	85.1	85.6	87.2	87.3	87.3	88.4	88.7	89.8	90.4	
GE 2500	67.1	75.1	81.4	83.4	83.7	85.6	86.1	86.6	88.4	88.6	88.6	89.7	89.9	91.0	91.7	
GE 2000	68.3	76.6	83.2	85.2	85.4	87.4	88.0	88.6	90.6	90.7	90.7	91.8	92.0	93.1	93.6	
GE 1800	68.6	76.8	83.4	85.4	85.7	87.7	88.2	88.8	90.8	90.9	90.9	92.0	92.2	93.3	94.0	
GE 1500	69.8	78.1	85.0	87.4	87.8	90.1	90.7	91.2	93.2	93.3	93.3	94.6	94.8	95.9	96.6	
GE 1200	69.9	78.2	85.1	87.6	87.9	90.2	90.8	91.3	93.3	93.4	93.7	94.9	95.1	96.2	96.9	
GE 1000	70.3	78.7	85.7	88.2	88.9	91.3	91.9	92.4	94.4	94.6	94.8	96.0	96.2	97.4	98.1	
GF 900	70.7	79.0	86.0	88.6	89.2	91.7	92.2	92.8	94.8	94.9	95.1	96.3	96.6	97.8	98.4	
GE 800	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.2	95.4	96.7	96.9	98.1	98.8	
GF 700	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.2	95.4	96.7	96.9	98.1	98.8	
GE 600	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.0	98.2	98.9	
GE 500	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.0	98.2	98.9	
GE 400	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.0	98.2	98.9	
GE 300	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.1	98.3	99.0	
GE 200	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.1	98.3	99.3	
GF 100	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.1	98.3	99.8	
GE 01	70.7	79.0	86.3	88.9	89.6	92.0	92.6	93.1	95.1	95.3	95.6	96.8	97.2	98.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JUN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		22.1	25.6	32.3	34.9	35.0	36.2	37.3	37.8	38.3	39.4	38.6	38.7	39.1	39.7	40.1
GE 20000	24.6	28.8	35.8	38.7	38.8	40.1	41.3	41.8	42.6	42.7	42.8	43.2	44.0	44.8	45.2	
GE 18000	24.6	28.8	35.8	38.8	38.9	40.2	41.4	41.9	42.7	42.8	42.9	43.3	44.1	44.9	45.3	
GE 16000	24.6	28.8	35.8	38.8	38.9	40.2	41.4	41.9	42.7	42.8	42.9	43.3	44.1	44.9	45.3	
GE 14000	24.7	28.9	35.9	38.9	39.0	40.3	41.6	42.0	42.8	42.9	43.0	43.4	44.2	45.0	45.4	
GE 12000	24.8	29.1	36.2	39.2	39.3	40.7	41.9	42.3	43.1	43.2	43.3	43.8	44.6	45.3	45.8	
GE 10000	27.1	31.8	39.0	42.0	42.1	43.4	44.7	45.2	46.1	46.2	46.3	46.8	47.8	48.6	49.0	
GE 9000	27.8	32.4	39.9	43.3	43.4	44.9	46.1	46.7	47.7	47.9	48.0	48.4	49.4	50.3	50.9	
GE 8000	30.7	35.6	44.0	47.7	47.8	49.4	50.7	51.2	52.3	52.6	52.7	53.1	54.1	55.0	55.7	
GE 7000	31.9	36.8	45.4	49.1	49.2	50.9	52.1	52.8	53.9	54.1	54.2	54.7	55.8	56.7	57.3	
GE 6000	32.0	36.9	45.6	49.2	49.3	51.0	52.2	52.9	54.0	54.2	54.3	54.8	55.9	56.8	57.4	
GE 5000	35.4	40.4	49.3	53.0	53.1	54.9	56.1	56.8	57.9	58.1	58.2	58.9	60.0	61.0	61.7	
GE 4500	39.1	44.1	53.3	57.2	57.3	59.2	60.4	61.2	62.6	62.8	62.9	63.6	64.7	65.7	66.3	
GE 4000	43.8	49.2	58.8	63.1	63.2	65.3	66.6	67.3	68.7	69.9	69.0	69.7	70.8	71.9	72.4	
GE 3500	46.4	52.4	62.3	67.0	67.1	69.8	71.1	71.9	73.3	73.6	73.7	74.3	75.4	76.4	77.1	
GE 3000	50.0	56.3	66.6	71.3	71.9	75.1	76.6	77.3	79.2	79.4	79.8	80.6	81.7	82.7	83.4	
GE 2500	51.1	57.4	68.0	72.8	73.3	76.8	78.2	79.0	81.0	81.2	81.6	82.3	83.4	84.4	85.2	
GE 2000	52.9	59.3	70.1	75.1	75.7	79.3	80.8	81.6	84.1	84.3	84.7	85.4	86.6	87.6	88.3	
GE 1800	54.2	60.7	71.4	76.4	77.0	80.7	82.1	82.9	85.4	85.7	86.0	86.8	87.9	88.9	89.7	
GE 1500	56.0	62.4	73.7	79.2	79.9	83.7	85.2	86.1	88.8	89.0	89.3	90.1	91.2	92.2	93.0	
GE 1200	56.8	63.4	74.7	80.2	80.9	84.7	86.4	87.3	90.0	90.2	90.6	91.3	92.4	93.4	94.2	
GE 1000	57.2	64.1	75.3	81.2	82.0	85.8	87.7	88.6	91.4	91.7	92.0	92.8	94.1	95.1	96.0	
GE 900	57.7	64.6	76.0	81.9	82.7	86.7	88.7	89.6	92.4	92.7	93.0	93.8	95.1	96.1	97.0	
GE 800	57.7	64.8	76.0	81.9	82.7	86.7	88.7	89.6	92.4	92.7	93.0	93.8	95.1	96.1	97.0	
GE 700	57.8	64.9	76.6	82.4	83.2	87.2	89.2	90.1	93.0	93.2	93.6	94.3	95.7	96.7	97.6	
GE 600	57.8	64.9	76.6	82.4	83.2	87.2	89.2	90.1	93.1	93.3	93.7	94.4	95.8	96.8	97.7	
GE 500	57.8	64.9	76.6	82.4	83.2	87.2	89.2	90.2	93.2	93.4	93.8	94.6	95.9	96.9	97.8	
GE 400	57.8	64.9	76.6	82.4	83.2	87.2	89.2	90.3	93.4	93.7	94.0	94.8	96.1	97.1	98.0	
GE 300	57.8	64.9	76.6	82.4	83.2	87.2	89.3	90.4	93.6	93.8	94.1	94.9	96.2	97.3	98.2	
GE 200	57.8	64.9	76.6	82.4	83.2	87.2	89.3	90.4	93.6	93.8	94.1	94.9	96.2	97.4	98.9	
GE 100	57.8	64.9	76.6	82.4	83.2	87.2	89.3	90.4	93.6	93.8	94.1	94.9	96.2	97.9	100.0	
GE 0	57.8	64.9	76.6	82.4	83.2	87.2	89.3	90.4	93.6	93.8	94.1	94.9	96.2	97.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUN HOURS(LST): 0900-1100

CEILING IN FEET	ST 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.1	35.3	38.9	39.7	39.7	40.4	41.0	41.1	41.1	41.1	41.1	41.1	41.2	41.2	41.2
GE 20000		36.7	39.0	42.7	43.4	43.4	44.2	44.8	44.9	44.9	44.9	44.9	44.9	45.0	45.0	45.0
GE 18000		37.0	39.4	43.1	43.9	43.9	44.7	45.2	45.3	45.3	45.3	45.3	45.3	45.4	45.4	45.4
GE 16000		37.0	39.4	43.1	43.9	43.9	44.7	45.2	45.3	45.3	45.3	45.3	45.3	45.4	45.4	45.4
GE 14000		37.3	39.8	43.4	44.2	44.2	45.0	45.6	45.7	45.7	45.7	45.7	45.7	45.8	45.8	45.8
GE 12000		37.8	40.2	43.9	44.7	44.7	45.4	46.0	46.1	46.1	46.1	46.1	46.1	46.2	46.2	46.2
GE 10000		39.9	42.3	46.0	46.8	46.8	47.6	48.1	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4
GE 9000		40.6	43.0	46.8	47.8	47.8	48.6	49.1	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.4
GE 8000		44.6	47.0	51.8	53.1	53.2	54.0	54.6	54.8	54.8	54.8	54.8	54.8	54.9	54.9	54.9
GE 7000		45.6	48.1	53.1	54.4	54.6	55.4	56.0	56.2	56.2	56.2	56.2	56.2	56.3	56.3	56.3
GE 6000		46.0	48.8	53.9	55.2	55.3	56.2	56.8	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1
GE 5000		48.6	51.7	57.1	58.4	58.6	59.4	60.0	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3
GE 4500		50.6	53.8	59.3	60.7	60.8	61.7	62.2	62.4	62.4	62.4	62.4	62.4	62.6	62.7	62.7
GE 4000		55.1	58.4	64.2	65.8	65.9	66.9	67.4	67.8	67.8	67.8	67.8	67.8	67.9	68.0	68.0
GE 3500		59.0	62.7	68.6	70.2	70.3	71.3	72.1	72.4	72.7	72.7	72.7	72.7	72.8	72.9	72.9
GE 3000		65.3	69.4	76.4	78.3	78.6	79.9	80.8	81.1	81.7	81.7	81.7	81.7	81.8	81.9	81.9
GE 2500		66.9	71.1	78.2	80.3	80.6	81.9	82.8	83.1	83.7	83.7	83.7	83.7	83.8	83.9	83.9
GE 2000		70.6	75.0	82.3	84.6	84.8	86.1	87.2	87.6	88.1	88.1	88.1	88.1	88.2	88.3	88.3
GE 1800		71.4	76.0	83.4	85.7	85.9	87.3	88.6	88.9	89.6	89.6	89.6	89.6	89.7	89.8	89.8
GE 1500		74.0	78.9	87.3	89.7	89.9	91.3	92.6	93.0	93.8	93.8	93.8	93.8	93.9	94.0	94.0
GE 1200		75.4	80.3	89.4	91.8	92.0	93.4	94.7	95.1	95.9	95.9	95.9	95.9	96.0	96.1	96.1
GE 1000		75.9	81.0	90.1	92.9	93.2	94.7	96.1	96.8	97.6	97.6	97.6	97.6	97.7	97.8	97.8
GE 900		75.9	81.0	90.2	93.0	93.3	94.8	96.2	96.9	97.7	97.7	97.7	97.7	97.8	97.9	97.9
GE 800		75.9	81.1	90.7	93.6	93.9	95.3	97.1	97.8	98.6	98.6	98.6	98.6	98.7	98.8	98.8
GE 700		76.1	81.3	90.9	93.8	94.1	95.6	97.3	98.0	98.8	98.8	98.8	98.8	98.9	99.0	99.0
GE 600		76.1	81.3	91.0	94.0	94.3	95.8	97.6	98.3	99.1	99.1	99.1	99.1	99.2	99.3	99.3
GE 500		76.1	81.3	91.0	94.0	94.3	95.8	97.7	98.4	99.2	99.2	99.2	99.2	99.3	99.4	99.4
GE 400		76.1	81.3	91.0	94.0	94.3	95.8	97.8	98.6	99.3	99.3	99.3	99.3	99.4	99.6	99.6
GE 300		76.1	81.3	91.0	94.0	94.3	95.9	98.0	98.9	99.7	99.7	99.7	99.7	99.8	99.9	99.9
GE 200		76.1	81.3	91.0	94.0	94.3	95.9	98.0	98.9	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 100		76.1	81.3	91.0	94.0	94.3	95.9	98.0	98.9	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 0		76.1	81.3	91.0	94.0	94.3	95.9	98.0	98.9	99.8	99.8	99.8	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JULY HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GL 80	GE 60	GE 43	LE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		36.1	36.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
GE 20000	41.9	42.1	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 18000	42.6	42.8	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 16000	42.6	42.8	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 14000	42.9	43.1	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 12000	43.4	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 10000	46.7	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 9000	47.1	47.3	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 8000	50.2	50.4	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 7000	51.4	51.7	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 6000	51.9	52.1	52.3	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 5000	55.2	55.4	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 4500	57.9	58.2	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 4000	63.4	63.7	65.0	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 3500	71.1	72.3	73.9	74.2	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 3000	83.1	84.6	86.6	87.2	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 2500	85.2	86.7	88.9	89.6	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 2000	88.0	89.6	92.0	92.7	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1800	88.4	90.0	92.4	93.2	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1500	90.2	91.8	95.1	96.1	96.6	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1200	91.0	92.6	96.1	97.1	97.6	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1000	91.0	92.7	96.8	97.9	98.3	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900	91.0	92.7	97.0	98.1	98.6	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 01	91.0	92.7	97.0	98.2	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JUN HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE J
NO CEIL		35.0	35.0	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
GE 20000		42.8	42.8	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 18000		43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
GE 16000		43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 14000		44.3	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
GE 12000		44.9	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 10000		49.0	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 9000		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	49.8
GE 8000		54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 7000		55.8	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 6000		56.2	56.3	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 5000		61.3	61.4	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 4500		64.7	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 4000		73.2	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 3500		81.4	81.8	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 3000		90.4	90.9	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 2500		92.4	93.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 2000		93.2	94.1	95.2	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1800		93.6	94.4	95.7	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1500		94.6	95.8	97.3	97.7	97.7	97.8	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1200		94.9	96.1	98.1	98.7	98.7	98.8	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000		95.1	96.3	98.3	99.0	99.0	99.1	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900		95.1	96.3	98.4	99.1	99.1	99.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800		95.2	96.4	98.7	99.3	99.4	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE n		95.2	96.4	98.7	99.4	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JUN HOURS(LST): 1900-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL		41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
GE 20000		51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
GE 18000		52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 16000		52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 14000		52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
GE 12000		52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 10000		58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 9000		59.0	59.2	59.2	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		65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 7000		67.4	67.7	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		67.8	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 5000		71.4	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 4500		75.7	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 4000		81.7	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 3500		87.4	87.9	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 3000		91.9	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 2500		93.1	93.9	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 2000		93.8	94.8	96.7	96.7	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1800		94.0	95.0	96.9	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1500		95.0	96.0	96.3	99.0	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1200		95.0	96.1	98.7	99.3	99.3	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1000		95.0	96.1	98.7	99.3	99.3	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		95.0	96.1	98.7	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
 USAFLTAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUN HOURS(IST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		41.0	41.2	41.6	41.7	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	42.0	42.1	42.1
GE 20000		50.6	51.1	51.6	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	52.0	52.1	52.1
GE 18000		50.9	51.4	51.9	52.0	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.3	52.4	52.4
GE 16000		50.9	51.4	51.9	52.0	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.3	52.4	52.4
GE 14000		51.3	51.9	52.3	52.4	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.8	52.9	52.9
GE 12000		51.9	52.4	52.9	53.0	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3	53.4	53.4
GE 10000		56.1	56.8	57.9	58.2	58.2	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.8	58.9	58.9
GE 9000		56.7	57.3	58.6	58.9	58.9	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.6	59.7	59.7
GE 8000		61.3	62.7	64.1	64.6	64.6	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.2	65.3	65.3
GE 7000		63.0	64.3	65.8	66.2	66.2	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.9	67.0	67.0
GE 6000		63.0	64.3	65.9	66.3	66.3	66.8	66.8	66.9	66.9	66.9	66.9	66.9	67.0	67.1	67.1
GE 5000		68.9	70.2	71.9	72.3	72.3	72.8	72.8	72.9	72.9	72.9	72.9	72.9	73.0	73.1	73.1
GE 4500		74.8	76.3	78.1	78.6	78.6	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.3	79.3
GE 4000		78.9	80.7	82.9	83.4	83.4	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.1	84.2	84.2
GE 3500		82.4	84.6	86.9	87.7	87.7	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.6	88.7	88.7
GE 3000		85.9	88.2	91.3	92.1	92.1	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.1	93.2	93.2
GE 2500		87.2	89.6	93.7	94.4	94.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.7	95.8	95.8
GE 2000		88.0	90.4	94.6	95.8	95.8	97.0	97.0	97.1	97.2	97.2	97.2	97.2	97.3	97.4	97.4
GE 1800		88.1	90.6	95.0	96.0	96.0	97.2	97.2	97.3	97.4	97.4	97.4	97.4	97.6	97.7	97.7
GE 1500		88.6	91.2	95.8	97.2	97.2	98.7	98.7	98.8	98.9	98.9	98.9	98.9	99.0	99.1	99.1
GE 1200		88.9	91.6	96.2	97.7	97.7	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.6	99.7	99.7
GE 1000		89.0	91.7	96.4	97.9	97.9	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.8	99.9	99.9
GE 900		89.0	91.7	96.4	97.9	97.9	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.8	99.9	99.9
GE 800		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 700		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 600		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 500		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 400		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 300		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 200		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 100		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
GE 0		89.0	91.7	96.4	97.9	97.9	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: PAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JUN HOURS(LST): ALL

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 90	GE 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		36.7	38.4	40.3	40.9	40.9	41.4	41.7	41.8	42.0	42.1	42.1	42.3	42.4	42.7	42.8
GE 20000		42.3	44.2	46.3	46.9	46.9	47.4	47.7	47.8	48.2	48.2	48.3	48.5	48.6	48.9	49.0
GE 18000		42.6	44.5	46.6	47.3	47.3	47.8	48.0	48.2	48.5	48.6	48.6	48.8	49.0	49.3	49.4
GE 16000		42.6	44.5	46.6	47.3	47.3	47.8	48.1	48.2	48.6	48.6	48.6	48.8	49.0	49.3	49.4
GE 14000		42.9	44.8	46.9	47.5	47.6	48.1	48.3	48.5	48.8	48.9	48.9	49.1	49.3	49.6	49.7
GE 12000		43.3	45.3	47.4	48.0	48.0	48.6	48.8	49.0	49.3	49.4	49.4	49.6	49.8	50.0	50.2
GE 10000		46.7	48.8	51.0	51.6	51.7	52.2	52.5	52.7	53.0	53.1	53.1	53.3	53.5	53.8	53.9
GE 9000		47.3	49.4	51.8	52.5	52.5	53.1	53.4	53.6	53.9	54.0	54.0	54.2	54.4	54.8	54.9
GE 8000		51.7	53.9	56.6	57.5	57.5	58.2	58.4	58.6	59.0	59.1	59.1	59.3	59.5	59.8	60.0
GE 7000		52.8	55.1	57.9	58.8	58.8	59.5	59.8	60.0	60.4	60.5	60.5	60.7	60.9	61.2	61.4
GE 6000		53.1	55.4	58.2	59.1	59.1	59.8	60.0	60.3	60.7	60.8	60.8	61.0	61.2	61.5	61.7
GE 5000		57.0	59.5	62.5	63.4	63.4	64.1	64.3	64.6	65.0	65.1	65.1	65.4	65.6	65.9	66.1
GE 4500		60.7	63.4	66.7	67.6	67.7	68.4	68.7	68.9	69.4	69.4	69.5	69.7	69.9	70.3	70.5
GE 4000		66.2	69.0	72.6	73.7	73.7	74.5	74.8	75.0	75.5	75.6	75.6	75.9	76.1	76.5	76.6
GE 3500		71.2	74.3	78.2	79.4	79.5	80.3	80.7	80.9	81.5	81.5	81.5	81.8	82.0	82.4	82.6
GE 3000		76.6	80.0	84.4	85.7	85.8	86.8	87.2	87.5	88.1	88.2	88.2	88.5	88.7	89.1	89.3
GE 2500		77.9	81.5	86.2	87.5	87.7	88.8	89.2	89.4	90.2	90.2	90.3	90.6	90.8	91.2	91.4
GE 2000		79.6	83.3	88.2	89.7	89.8	91.1	91.5	91.8	92.6	92.7	92.7	93.0	93.2	93.6	93.8
GE 1800		80.1	83.8	88.7	90.2	90.4	91.7	92.1	92.4	93.2	93.3	93.3	93.6	93.8	94.2	94.4
GE 1500		81.4	85.2	90.6	92.4	92.6	94.1	94.5	94.8	95.8	95.8	95.9	96.2	96.4	96.8	97.0
GE 1200		81.8	85.7	91.4	93.2	93.4	94.9	95.3	95.7	96.6	96.7	96.7	97.0	97.2	97.6	97.8
GE 1000		82.1	86.0	91.8	93.8	94.0	95.5	96.0	96.4	97.4	97.4	97.5	97.8	98.0	98.4	98.7
GF 900		82.2	86.2	92.0	94.0	94.3	95.8	96.3	96.7	97.6	97.7	97.8	98.1	98.3	98.7	98.9
GE 800		82.2	86.2	92.1	94.2	94.5	96.0	96.6	97.0	97.9	98.0	98.1	98.3	98.6	99.0	99.2
GE 700		82.3	86.3	92.2	94.3	94.6	96.1	96.7	97.1	98.0	98.1	98.2	98.5	98.7	99.1	99.3
GE 600		82.3	86.3	92.2	94.3	94.6	96.2	96.7	97.2	98.1	98.2	98.3	98.5	98.8	99.2	99.4
GE 500		82.3	86.3	92.2	94.3	94.6	96.2	96.8	97.2	98.1	98.2	98.3	98.6	98.8	99.2	99.5
GE 400		82.3	86.3	92.2	94.3	94.6	96.2	96.8	97.2	98.2	98.3	98.3	98.6	98.9	99.3	99.5
GE 300		82.3	86.3	92.2	94.3	94.6	96.2	96.8	97.3	98.2	98.3	98.4	98.7	98.9	99.4	99.6
GE 200		82.3	86.3	92.2	94.3	94.6	96.2	96.8	97.3	98.2	98.3	98.4	98.7	99.0	99.4	99.7
GE 100		82.3	86.3	92.2	94.3	94.6	96.2	96.8	97.3	98.2	98.3	98.4	98.7	99.0	99.4	100.0
GE 01		82.3	86.3	92.2	94.3	94.6	96.2	96.8	97.3	98.2	98.3	98.4	98.7	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	55.3	56.6	57.9	58.0	58.2	58.7	58.8	58.8	59.0	59.2	59.2	59.2	59.3	59.3	59.4	
GE 2000	57.8	59.3	60.6	60.9	61.1	61.6	61.8	61.8	62.0	62.3	62.3	62.3	62.6	62.6	62.8	
GE 1800	57.9	59.4	60.7	61.0	61.2	61.7	61.9	61.9	62.1	62.4	62.4	62.4	62.8	62.8	62.9	
GE 1600	57.9	59.4	60.7	61.0	61.2	61.7	61.9	61.9	62.1	62.4	62.4	62.4	62.8	62.8	62.9	
GE 1400	58.0	59.5	60.8	61.1	61.4	61.8	62.0	62.0	62.2	62.5	62.5	62.5	62.9	62.9	63.1	
GE 1200	58.4	60.0	61.2	61.7	61.9	62.3	62.5	62.5	62.8	63.1	63.1	63.1	63.4	63.4	63.5	
GE 1000	59.7	61.2	62.6	63.1	63.3	63.7	63.9	63.9	64.2	64.5	64.5	64.5	64.8	64.8	64.9	
GE 900	60.2	61.7	63.1	63.5	63.7	64.2	64.4	64.4	64.6	64.9	64.9	64.9	65.2	65.2	65.3	
GE 800	65.3	67.1	69.2	69.6	69.9	70.3	70.6	70.6	70.8	71.2	71.2	71.2	71.5	71.5	71.6	
GE 700	66.0	67.8	70.0	70.4	70.6	71.3	71.6	71.6	71.8	72.1	72.1	72.1	72.4	72.4	72.6	
GE 600	66.3	68.1	70.3	70.7	70.9	71.6	71.9	71.9	72.1	72.4	72.4	72.4	72.8	72.8	72.9	
GE 500	70.2	72.0	74.2	74.6	74.8	75.5	75.8	75.8	76.1	76.4	76.4	76.4	76.7	76.7	76.9	
GE 450	74.4	76.5	78.8	79.3	79.5	80.2	80.5	80.5	80.8	81.2	81.2	81.2	81.5	81.5	81.6	
GE 400	78.3	80.7	83.0	83.6	83.9	84.5	84.8	84.8	85.1	85.5	85.5	85.5	85.8	85.8	85.9	
GE 350	80.1	83.0	85.3	85.9	86.1	87.0	87.3	87.3	87.6	87.9	87.9	87.9	88.3	88.3	88.4	
GE 300	82.3	85.5	87.9	88.8	89.1	90.4	91.1	91.1	91.5	91.8	91.8	91.8	92.1	92.1	92.2	
GE 250	83.2	86.3	88.9	89.8	90.1	91.4	92.0	92.0	92.5	92.8	92.8	92.8	93.1	93.1	93.2	
GE 200	84.2	87.4	90.3	91.3	91.6	92.9	93.5	93.5	94.0	94.3	94.3	94.3	94.6	94.6	94.7	
GE 180	84.8	88.1	91.0	91.9	92.2	93.5	94.2	94.2	94.6	94.9	94.9	94.9	95.3	95.3	95.4	
GE 150	86.0	89.2	92.4	93.3	93.6	94.9	95.6	95.6	96.0	96.3	96.3	96.3	96.7	96.7	96.8	
GE 120	86.8	90.1	93.2	94.3	94.6	96.1	96.8	96.8	97.2	97.5	97.5	97.5	97.8	97.8	98.0	
GE 100	87.2	90.5	94.0	95.0	95.4	96.9	97.5	97.6	98.2	98.5	98.5	98.5	98.8	98.8	98.9	
GE 90	87.3	90.6	94.1	95.4	95.8	97.3	98.0	98.1	98.6	98.9	98.9	98.9	99.2	99.2	99.4	
GE 80	87.6	91.0	94.4	95.7	96.1	97.6	98.3	98.4	98.9	99.2	99.2	99.2	99.6	99.6	99.7	
GE 70	87.6	91.0	94.5	95.8	96.2	97.7	98.4	98.5	99.0	99.4	99.4	99.4	99.7	99.7	99.8	
GE 60	87.6	91.0	94.5	95.8	96.2	97.7	98.4	98.5	99.0	99.4	99.4	99.4	99.7	99.7	99.8	
GE 50	87.7	91.1	94.6	95.9	96.3	97.8	98.5	98.6	99.1	99.5	99.5	99.5	99.8	99.8	99.9	
GE 40	87.7	91.1	94.6	95.9	96.3	97.8	98.5	98.6	99.1	99.5	99.5	99.5	99.8	99.8	99.9	
GE 30	87.7	91.1	94.6	95.9	96.3	97.8	98.5	98.6	99.1	99.5	99.5	99.5	99.8	99.8	99.9	
GE 20	87.7	91.1	94.6	95.9	96.3	97.8	98.5	98.6	99.1	99.5	99.5	99.5	99.8	99.8	99.9	
GE 10	87.7	91.1	94.6	95.9	96.3	97.8	98.5	98.6	99.1	99.5	99.5	99.5	99.8	99.8	100.0	
GE 0	87.7	91.1	94.6	95.9	96.3	97.8	98.5	98.6	99.1	99.5	99.5	99.5	99.8	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 9.9

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: JUL HOURS(LST): 0100-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GF 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GF 10	GE 8	GE 5	GE 4	GE 1
NO CEIL		44.2	48.7	52.3	53.3	53.4	54.1	54.2	54.6	55.3	55.6	55.7	55.8	56.1	56.7	56.8
GE 2000	46.1	50.6	54.2	55.3	55.4	56.0	56.3	56.8	57.4	57.7	57.8	58.0	58.1	58.2	58.5	58.9
GE 1800	46.3	50.9	54.4	55.5	55.6	56.2	56.6	57.0	57.6	58.0	58.1	58.2	58.5	59.0	59.1	
GE 1600	46.3	50.9	54.4	55.5	55.6	56.2	56.6	57.0	57.6	58.0	58.1	58.2	58.5	59.0	59.1	
GE 1400	46.9	51.6	55.2	56.2	56.3	57.0	57.3	57.7	58.4	59.7	58.8	58.9	59.2	59.8	59.9	
GE 1200	47.0	51.7	55.3	56.3	56.5	57.1	57.4	57.8	58.5	58.8	58.9	59.0	59.4	59.9	60.0	
GE 1000	48.6	53.4	57.0	58.1	58.2	58.9	59.4	59.8	60.4	67.8	60.9	61.1	61.4	61.9	62.0	
GE 900	48.9	53.6	57.3	58.4	58.5	59.2	59.7	60.1	60.8	61.1	61.2	61.4	61.7	62.3	62.4	
GE 800	52.4	57.2	61.0	62.2	62.3	63.1	63.8	64.2	64.8	65.2	65.3	65.5	65.8	66.3	66.6	
GE 700	52.9	58.0	61.7	62.9	63.0	63.9	64.5	64.9	65.7	66.0	66.1	66.3	66.7	67.2	67.4	
GF 600	53.1	58.3	62.0	63.2	63.3	64.2	64.8	65.3	66.0	66.3	66.5	66.7	67.0	67.5	67.7	
GE 500	56.3	61.7	65.6	66.8	66.9	67.7	69.0	68.8	69.6	69.9	70.0	70.2	70.5	71.1	71.3	
GE 450	62.0	67.8	72.0	73.2	73.3	74.3	74.9	75.4	76.1	76.5	76.6	76.8	77.1	77.6	77.8	
GE 400	65.7	71.5	75.8	77.1	77.2	78.2	78.8	79.2	80.0	80.3	80.4	80.6	81.0	81.5	81.7	
GE 350	68.2	74.1	78.4	79.7	79.8	80.9	81.5	81.9	82.7	83.0	83.1	83.3	83.7	84.2	84.4	
GE 300	71.2	77.5	82.3	84.1	84.2	86.0	86.7	87.1	87.8	88.2	88.3	88.5	88.8	89.4	89.6	
GE 250	72.7	79.0	83.8	85.6	85.7	87.5	88.2	88.6	89.4	89.7	89.8	90.0	90.3	90.9	91.1	
GE 200	73.3	79.7	84.4	86.2	86.3	88.2	88.8	89.2	90.0	90.3	90.4	90.6	91.0	91.5	91.7	
GF 180	73.5	79.9	84.6	86.5	86.6	88.4	89.0	89.5	90.2	90.5	90.6	90.9	91.2	91.7	91.9	
GE 150	75.4	81.9	86.8	88.6	88.7	90.5	91.2	91.6	92.4	92.7	92.9	93.1	93.4	94.0	94.2	
GE 120	76.9	83.7	88.6	90.4	90.5	92.4	93.0	93.4	94.2	94.5	94.7	94.9	95.3	95.8	96.0	
GE 100	76.9	83.7	88.6	90.5	90.6	92.6	93.2	93.8	94.8	95.2	95.4	95.6	95.9	96.5	96.7	
GE 90	77.2	84.1	89.0	91.0	91.1	93.0	93.8	94.3	95.4	95.7	95.9	96.1	96.5	97.0	97.3	
GE 80	77.5	84.4	89.4	91.3	91.4	93.4	94.2	94.7	95.8	96.1	96.3	96.6	96.9	97.4	97.7	
GE 70	77.8	84.7	89.7	91.8	91.9	94.1	94.8	95.4	96.5	96.8	97.0	97.3	97.6	98.2	98.5	
GE 60	77.8	84.7	89.7	91.8	91.9	94.1	94.8	95.4	96.5	96.8	97.0	97.3	97.6	98.2	98.5	
GE 50	77.6	84.7	89.7	91.8	91.9	94.1	94.8	95.4	96.5	96.8	97.0	97.3	97.6	98.2	98.5	
GE 40	77.8	84.7	89.7	91.8	91.9	94.4	95.2	95.7	96.8	97.1	97.3	97.6	98.0	98.5	98.8	
GE 30	77.8	84.7	89.7	91.8	91.9	94.4	95.2	95.7	96.8	97.1	97.3	97.6	98.0	98.5	99.0	
GF 20	77.8	84.7	89.7	91.8	91.9	94.4	95.2	95.7	96.8	97.1	97.3	97.6	98.0	98.7	99.2	
GE 10	78.0	84.8	89.8	91.9	92.0	94.5	95.3	95.8	96.9	97.3	97.5	97.8	98.2	99.0	99.7	
GE 0		78.0	84.8	89.8	91.9	92.0	94.5	95.3	95.8	96.9	97.3	97.5	97.8	98.2	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.1	29.0	36.7	39.7	40.3	41.6	42.0	42.2	43.8	43.9	43.9	44.2	44.4	45.2	45.5
GE 20000		26.7	31.0	39.7	42.9	43.5	45.1	45.5	45.6	47.2	47.3	47.3	47.6	47.8	48.6	46.9
GE 18000		27.0	31.4	40.3	43.5	44.2	45.7	46.1	46.2	47.8	48.0	48.0	48.3	48.5	49.2	49.6
GE 16000		27.0	31.4	40.3	43.5	44.2	45.7	46.1	46.2	47.8	48.0	48.0	48.3	48.5	49.2	49.6
GE 14000		27.3	31.7	40.6	43.9	44.5	46.0	46.5	46.6	48.2	48.3	48.3	48.6	48.8	49.6	49.9
GE 12000		27.4	31.8	40.9	44.1	44.7	46.2	46.7	46.8	48.4	48.5	48.5	48.8	49.0	49.8	50.1
GE 10000		30.3	34.9	44.5	48.0	48.6	50.1	50.5	50.6	52.4	52.5	52.5	52.9	53.2	54.0	54.3
GE 9000		31.7	36.3	46.0	49.5	50.1	51.7	52.2	52.3	54.0	54.1	54.1	54.5	54.8	55.6	55.9
GE 8000		34.8	40.0	50.2	53.7	54.3	56.2	56.9	57.0	59.0	59.1	59.1	59.6	60.0	60.8	61.1
GE 7000		35.7	41.1	51.8	55.3	55.9	57.8	58.5	58.6	60.6	60.8	60.8	61.2	61.6	62.4	62.7
GE 6000		36.0	41.5	52.3	55.7	56.3	58.3	58.9	59.0	61.1	61.2	61.2	61.6	62.0	62.8	63.1
GE 5000		39.2	45.1	56.1	60.0	60.6	62.6	63.2	63.4	65.5	65.6	65.6	66.0	66.5	67.2	67.5
GE 4500		43.7	49.8	61.5	65.4	66.1	68.5	69.1	69.4	71.4	71.5	71.5	71.9	72.4	73.1	73.4
GE 4000		46.6	53.3	65.5	69.7	70.4	72.9	73.5	74.0	76.0	76.1	76.1	76.6	77.3	78.1	78.4
GE 3500		49.9	57.1	69.6	74.3	75.1	77.6	78.3	78.8	81.1	81.2	81.2	81.6	82.4	83.1	83.4
GE 3000		52.5	59.9	72.5	77.4	78.2	81.4	82.0	82.6	84.8	85.3	85.3	85.7	86.5	87.2	87.5
GE 2500		53.3	60.8	73.3	78.3	79.0	82.3	83.0	83.5	85.9	86.3	86.3	86.8	87.5	88.3	88.6
GE 2000		54.1	61.5	74.2	79.1	80.0	83.2	84.0	84.5	87.0	87.4	87.4	87.8	88.6	89.4	89.7
GE 1800		54.3	61.7	74.4	79.4	80.2	83.4	84.2	84.7	87.2	87.6	87.6	88.1	88.8	89.6	89.9
GE 1500		56.2	63.9	76.9	82.2	83.1	86.7	87.6	88.3	90.9	91.3	91.3	91.7	92.5	93.2	93.5
GE 1200		57.2	65.1	78.2	83.7	84.6	88.1	89.2	89.9	92.5	92.9	92.9	93.3	94.1	94.8	95.2
GE 1000		57.4	65.3	78.8	84.5	85.5	89.1	90.1	90.8	93.5	94.1	94.1	94.5	95.3	96.0	96.3
GE 900		57.5	65.4	78.9	84.6	85.8	89.5	90.5	91.2	94.0	94.5	94.5	94.9	95.7	96.5	96.8
GE 800		57.6	65.7	79.2	84.9	86.1	89.8	90.9	91.5	94.3	94.8	94.8	95.3	96.0	96.8	97.1
GE 700		57.6	65.8	79.4	85.1	86.5	90.1	91.3	91.9	94.7	95.3	95.3	95.7	96.5	97.2	97.5
GE 600		57.6	65.8	79.4	85.1	86.5	90.1	91.3	91.9	94.7	95.3	95.3	95.7	96.5	97.2	97.5
GE 500		57.6	65.8	79.5	85.2	86.6	90.4	91.6	92.3	95.2	95.7	95.7	96.1	96.9	97.6	98.0
GE 400		57.6	65.8	79.5	85.2	86.6	90.4	91.6	92.3	95.3	95.8	95.8	96.2	97.0	97.7	98.1
GE 300		57.6	65.8	79.5	85.2	86.6	90.4	91.6	92.3	95.3	95.9	95.9	96.3	97.1	98.1	98.7
GE 200		57.6	65.8	79.5	85.2	86.6	90.4	91.6	92.3	95.4	96.0	96.0	96.5	97.2	98.5	99.5
GE 100		57.6	65.8	79.5	85.2	86.6	90.4	91.6	92.3	95.4	96.0	96.0	96.6	97.3	98.6	99.8
GE 0		57.6	65.8	79.5	85.2	86.6	90.4	91.6	92.3	95.4	96.0	96.0	96.6	97.3	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
MONTH: JUL HOURS(LST): 0900-1100

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		36.2	38.5	41.3	42.4	42.7	42.7	43.0	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.3
GE 20000		39.7	42.2	46.1	47.3	47.6	47.6	48.0	48.0	48.2	48.3	48.3	48.3	48.3	48.3	48.3
GE 18000		40.1	42.6	46.6	47.7	48.1	48.1	48.4	48.4	48.6	48.7	48.7	48.7	48.7	48.7	48.7
GE 16000		40.2	42.7	46.7	47.8	48.2	48.2	48.5	48.5	48.7	48.8	48.8	48.8	48.8	48.8	48.8
GE 14000		40.5	43.0	47.0	48.2	48.5	48.5	48.8	48.8	49.0	49.1	49.1	49.1	49.1	49.1	49.1
GE 12000		41.0	43.4	47.4	48.6	48.9	48.9	49.2	49.2	49.5	49.6	49.6	49.6	49.6	49.6	49.6
GE 10000		44.2	46.8	51.0	52.6	53.1	53.2	53.7	53.7	53.9	54.1	54.1	54.1	54.1	54.1	54.1
GE 9000		45.7	48.3	52.6	54.3	54.8	55.1	55.5	55.5	55.7	55.9	55.9	55.9	55.9	55.9	55.9
GE 8000		49.7	52.4	57.4	59.2	59.9	60.3	60.8	61.1	61.3	61.5	61.5	61.5	61.5	61.5	61.5
GE 7000		50.9	53.5	58.8	60.6	61.3	61.8	62.3	62.6	62.8	63.0	63.0	63.0	63.0	63.0	63.0
GE 6000		51.5	54.2	59.5	61.4	62.0	62.6	63.1	63.4	63.7	63.9	63.9	63.9	63.9	63.9	63.9
GE 5000		54.2	57.0	62.6	64.5	65.2	65.7	66.2	66.6	66.8	67.0	67.0	67.0	67.0	67.0	67.0
GE 4500		56.2	59.2	65.2	67.2	67.8	68.5	69.0	69.4	69.6	69.8	69.8	69.8	69.8	69.8	69.8
GE 4000		59.8	62.9	69.5	71.5	72.3	72.9	73.4	73.8	74.3	74.5	74.5	74.5	74.5	74.5	74.5
GE 3500		63.5	67.4	74.7	76.9	77.6	78.3	78.9	79.4	79.9	80.1	80.1	80.1	80.1	80.1	80.1
GE 3000		69.5	74.0	81.5	84.1	84.8	85.7	86.5	86.9	87.4	87.6	87.6	87.6	87.6	87.6	87.6
GE 2500		71.1	75.7	83.4	86.1	86.9	87.7	88.5	88.9	89.5	89.7	89.7	89.7	89.7	89.7	89.7
GE 2000		72.8	77.4	85.6	88.6	89.4	90.2	91.0	91.4	91.9	92.2	92.2	92.2	92.2	92.2	92.2
GE 1800		72.8	77.4	85.6	88.6	89.4	90.2	91.0	91.4	91.9	92.2	92.2	92.2	92.2	92.2	92.2
GE 1600		74.4	79.6	88.1	91.2	92.0	93.1	94.0	94.5	95.1	95.3	95.3	95.3	95.3	95.3	95.3
GE 1400		74.9	80.2	89.1	92.4	93.2	94.3	95.2	95.8	96.3	96.6	96.6	96.6	96.6	96.6	96.6
GE 1200		75.6	81.3	90.6	94.0	94.8	95.9	96.8	97.4	98.0	98.2	98.2	98.2	98.2	98.2	98.2
GE 1000		75.6	81.4	90.8	94.2	95.1	96.1	97.0	97.6	98.2	98.4	98.4	98.4	98.4	98.4	98.4
GE 900		75.6	81.4	90.8	94.2	95.1	96.1	97.0	97.6	98.2	98.4	98.4	98.4	98.4	98.4	98.4
GE 800		75.7	81.5	90.9	94.5	95.5	96.6	97.4	98.1	98.6	98.8	98.8	98.8	98.8	98.8	98.8
GE 700		75.7	81.5	91.0	94.6	95.8	97.0	97.8	98.5	99.0	99.2	99.2	99.2	99.2	99.2	99.2
GE 600		75.7	81.5	91.0	94.7	95.9	97.1	98.0	98.6	99.2	99.5	99.5	99.5	99.5	99.5	99.5
GE 500		75.7	81.5	91.0	94.7	95.9	97.1	98.0	98.6	99.2	99.5	99.5	99.5	99.5	99.5	99.5
GE 400		75.7	81.5	91.0	94.7	95.9	97.1	98.1	98.7	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 300		75.7	81.5	91.0	94.7	95.9	97.1	98.1	98.7	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 200		75.7	81.5	91.0	94.7	95.9	97.1	98.1	98.7	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 100		75.7	81.5	91.0	94.7	95.9	97.1	98.1	98.7	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 0		75.7	81.5	91.0	94.8	96.0	97.2	98.2	98.8	99.5	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		35.4	35.9	36.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 20000		42.2	42.8	43.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
GE 18000		42.7	43.3	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
GE 16000		42.8	43.4	44.0	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 14000		43.2	43.9	44.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 12000		44.4	45.1	45.6	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 10000		47.5	48.2	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 9000		48.2	48.8	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 8000		52.9	53.5	54.4	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 7000		55.3	55.9	56.8	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 6000		56.5	57.1	58.0	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 5000		61.1	61.7	62.6	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 4500		64.9	65.6	66.7	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 4000		70.4	71.1	72.5	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 3500		76.3	77.2	78.8	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 3000		84.1	85.2	87.6	89.2	89.2	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 2500		86.0	87.1	89.8	91.4	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 2000		88.7	90.1	93.0	94.7	94.7	94.8	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1800		88.8	90.2	93.1	94.8	94.8	94.9	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1500		89.9	91.9	94.9	96.7	96.7	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1200		90.8	93.0	96.2	98.1	98.1	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1000		91.1	93.3	96.8	98.8	98.9	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900		91.1	93.3	96.9	99.0	99.1	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		91.1	93.3	97.0	99.1	99.2	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: PAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	36.5	36.6	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 20000	45.6	45.7	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
GE 18000	46.0	46.1	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 16000	46.2	46.3	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 14000	46.3	46.5	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	47.3	47.4	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 10000	50.9	51.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
GE 9000	52.6	52.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 8000	56.8	57.0	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 7000	58.7	58.9	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	60.3	60.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 5000	65.6	65.6	67.0	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 4500	69.7	70.0	71.4	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 4000	76.5	76.8	78.3	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 3500	82.0	82.4	84.1	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 3000	89.8	90.1	92.3	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2500	91.8	92.2	94.3	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 2000	94.1	94.5	96.7	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1800	94.3	94.7	96.9	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500	94.9	95.4	97.6	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1200	95.3	95.7	98.0	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 1000	95.5	95.9	98.5	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 900	95.5	95.9	98.6	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 800	95.5	95.9	98.6	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	95.5	95.9	98.7	99.6	99.6	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 0	95.6	96.0	98.8	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GL 80	GF 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	42.9	42.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 20000	51.5	51.5	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 18000	52.5	52.5	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 16000	52.7	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 14000	52.8	52.8	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 12000	53.2	53.2	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 10000	58.0	58.0	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 9000	60.1	60.1	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 8000	65.7	65.7	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 7000	67.4	67.4	68.7	68.7	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 6000	68.6	68.6	69.9	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 5000	73.8	73.8	75.1	75.4	75.4	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 4500	78.3	78.5	79.8	80.1	80.1	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 4000	83.2	83.4	85.1	85.4	85.4	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 3500	88.6	88.8	90.5	90.9	90.9	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 3000	92.2	92.4	94.2	94.6	94.6	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 2500	93.7	93.9	95.8	96.2	96.2	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2000	94.5	94.7	96.8	97.2	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1800	94.6	94.8	96.9	97.3	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500	95.4	95.6	97.7	98.3	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1200	95.5	95.8	98.1	98.6	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1000	95.5	95.8	98.4	98.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900	95.5	95.8	98.4	98.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 800	95.5	95.8	98.4	99.0	99.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 700	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	95.6	95.9	98.6	99.2	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		51.7	52.4	52.7	52.7	52.9	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.1
GE 20000		57.4	58.2	58.7	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.2
GE 18000		58.0	58.7	59.2	59.2	59.5	59.6	59.6	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.8
GE 16000		58.1	58.8	59.4	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.9
GE 14000		58.3	59.0	59.6	59.6	59.8	59.9	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.1
GE 12000		58.7	59.6	60.1	60.1	60.3	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.6
GE 10000		61.7	62.7	63.3	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	64.0
GE 9000		62.8	63.8	64.5	64.7	64.9	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.3
GE 8000		66.9	68.1	69.4	69.6	69.8	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.1
GE 7000		68.1	69.2	70.8	71.3	71.5	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.9
GE 6000		69.2	70.4	71.9	72.5	72.7	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.1
GE 5000		74.7	75.9	77.5	78.1	78.3	78.7	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.2
GE 4500		78.5	79.8	81.5	82.2	82.4	82.8	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.3
GE 4000		83.8	85.3	87.2	87.8	88.1	88.5	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	89.0
GE 3500		85.3	87.0	89.0	89.9	90.1	90.6	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.2
GE 3000		87.7	89.8	92.2	93.2	93.4	94.2	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.7
GE 2500		88.7	90.8	93.2	94.3	94.5	95.4	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.9
GE 2000		89.2	91.4	94.0	95.1	95.3	96.1	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.7
GE 1800		89.7	91.8	94.5	95.7	95.9	96.8	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.3
GE 1500		90.5	92.8	95.7	96.9	97.1	98.0	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.5
GE 1200		90.6	92.9	95.9	97.1	97.3	98.3	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8
GE 1000		90.9	93.2	96.2	97.5	97.7	99.1	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.7
GE 900		91.0	93.3	96.3	97.6	97.8	99.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8
GE 800		91.1	93.4	96.5	97.7	98.0	99.4	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9
GE 700		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 600		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 500		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 400		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 300		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 200		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 100		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0
GE 0		91.1	93.4	96.6	97.8	98.1	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: JUL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		40.9	42.5	44.7	45.3	45.5	45.8	45.9	46.0	46.4	46.4	46.5	46.5	46.6	46.8	46.8
GE 20000		45.9	47.7	50.1	50.9	51.1	51.4	51.6	51.6	52.0	52.1	52.1	52.1	52.3	52.4	52.5
GE 18000		46.3	48.1	50.6	51.4	51.5	51.9	52.0	52.1	52.4	52.5	52.6	52.6	52.7	52.9	53.0
GE 16000		46.4	48.2	50.7	51.4	51.6	52.0	52.1	52.2	52.5	52.6	52.7	52.7	52.8	53.0	53.1
GE 14000		46.7	48.5	51.0	51.7	51.9	52.3	52.4	52.5	52.8	52.9	53.0	53.0	53.1	53.3	53.4
GE 12000		47.2	49.0	51.5	52.3	52.5	52.9	53.0	53.0	53.4	53.5	53.5	53.6	53.7	53.8	53.9
GE 10000		50.1	52.0	54.6	55.5	55.7	56.1	56.3	56.4	56.7	56.8	56.8	56.9	57.1	57.2	57.3
GE 9000		51.3	53.2	55.9	56.8	57.0	57.4	57.6	57.6	58.0	58.1	58.1	58.2	58.3	58.5	58.6
GE 8000		55.6	57.6	60.8	61.8	62.0	62.5	62.7	62.8	63.2	63.4	63.4	63.5	63.6	63.8	63.9
GE 7000		56.9	59.0	62.3	63.4	63.6	64.1	64.4	64.5	64.9	65.0	65.1	65.1	65.3	65.4	65.5
GE 6000		57.7	59.8	63.2	64.3	64.5	65.0	65.3	65.4	65.8	65.9	66.0	66.0	66.2	66.3	66.4
GE 5000		61.9	64.1	67.6	68.7	69.0	69.6	69.9	70.0	70.4	70.5	70.6	70.7	70.8	71.0	71.0
GE 4500		66.0	68.4	72.1	73.3	73.5	74.2	74.6	74.7	75.1	75.2	75.2	75.3	75.5	75.6	75.7
GE 4000		70.5	73.1	77.1	78.4	78.7	79.4	79.7	79.8	80.3	80.4	80.5	80.5	80.7	80.9	81.0
GE 3500		74.2	77.1	81.3	82.8	83.0	83.8	84.1	84.3	84.8	84.9	84.9	85.0	85.2	85.4	85.5
GE 3000		78.7	81.8	86.3	88.1	88.3	89.4	89.8	90.0	90.5	90.6	90.7	90.7	90.9	91.1	91.2
GE 2500		80.1	83.2	87.8	89.6	89.9	90.9	91.3	91.5	92.0	92.2	92.2	92.3	92.5	92.6	92.7
GE 2000		81.4	84.6	89.4	91.2	91.5	92.6	93.0	93.2	93.7	93.9	93.9	94.0	94.2	94.3	94.4
GE 1800		81.6	84.8	89.6	91.5	91.8	92.8	93.3	93.5	94.0	94.1	94.2	94.2	94.4	94.6	94.7
GE 1500		82.8	86.3	91.3	93.2	93.5	94.6	95.1	95.3	95.9	96.0	96.1	96.1	96.3	96.5	96.6
GE 1200		83.5	87.1	92.2	94.2	94.5	95.7	96.1	96.4	96.9	97.1	97.1	97.2	97.4	97.5	97.6
GE 1000		83.7	87.4	92.7	94.8	95.2	96.4	96.9	97.2	97.8	98.0	98.0	98.1	98.3	98.4	98.5
GE 900		83.8	87.5	92.9	95.0	95.4	96.7	97.2	97.4	98.1	98.2	98.3	98.3	98.5	98.7	98.8
GE 800		83.9	87.6	93.0	95.2	95.6	96.9	97.4	97.6	98.3	98.4	98.5	98.5	98.7	98.9	99.0
GE 700		84.0	87.7	93.2	95.4	95.8	97.1	97.6	97.9	98.5	98.7	98.7	98.8	99.0	99.2	99.3
GE 600		84.0	87.7	93.2	95.4	95.8	97.2	97.7	97.9	98.6	98.7	98.8	98.9	99.0	99.2	99.3
GE 500		84.0	87.7	93.2	95.4	95.9	97.2	97.7	97.8	98.0	98.7	98.9	98.9	99.0	99.2	99.4
GE 400		84.0	87.7	93.2	95.4	95.9	97.3	97.8	97.8	98.0	98.8	98.9	99.0	99.1	99.2	99.5
GE 300		84.0	87.7	93.2	95.4	95.9	97.3	97.8	97.8	98.1	98.8	99.0	99.0	99.1	99.3	99.7
GE 200		84.0	87.7	93.2	95.4	95.9	97.3	97.8	97.8	98.1	98.8	99.0	99.0	99.1	99.3	99.6
GE 100		84.0	87.7	93.2	95.4	95.9	97.3	97.8	97.8	98.1	98.8	99.0	99.1	99.2	99.3	99.9
GE 0		84.0	87.7	93.2	95.5	95.9	97.3	97.8	98.1	98.8	99.0	99.1	99.2	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: AUG HOURS (LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		53.7	56.0	59.5	60.3	60.8	61.4	61.4	61.5	61.8	62.0	62.0	62.2	63.0	63.4	63.8
GE 20000	56.8	59.8	63.5	64.6	65.1	65.8	65.8	65.9	66.2	66.5	66.5	66.6	67.5	68.0	68.3	
GE 18000	57.0	60.0	63.8	64.7	65.3	66.0	66.0	66.1	66.5	66.7	66.7	66.8	67.7	68.2	68.5	
GE 16000	57.0	60.0	63.8	64.7	65.3	66.0	66.0	66.1	66.5	66.7	66.7	66.8	67.7	68.2	68.5	
GE 14000	57.2	60.2	64.0	65.1	65.5	66.2	66.2	66.3	66.7	66.9	66.9	67.0	68.0	68.4	68.7	
GE 12000	58.0	61.0	64.8	65.9	66.3	67.1	67.1	67.2	67.5	67.7	67.7	67.8	68.8	69.2	69.6	
GE 10000	59.8	62.8	67.0	68.1	68.5	69.4	69.4	69.5	69.8	70.0	70.0	70.1	71.1	71.5	71.8	
GE 9000	60.6	63.7	67.8	68.9	69.4	70.2	70.2	70.3	70.6	70.9	70.9	71.0	71.9	72.4	72.9	
GE 8000	64.0	67.3	71.8	72.9	73.3	74.2	74.2	74.3	74.7	74.9	74.9	75.1	76.0	76.5	77.2	
GE 7000	64.5	67.8	72.4	73.5	74.0	74.8	74.8	74.9	75.4	75.6	75.6	75.7	76.7	77.1	77.8	
GE 6000	64.9	68.4	72.9	74.1	74.5	75.4	75.4	75.5	75.9	76.1	76.1	76.2	77.2	77.6	78.4	
GE 5000	67.6	71.1	76.0	77.2	77.6	78.5	78.5	78.6	79.0	79.2	79.2	79.5	80.4	81.1	81.8	
GE 4500	71.7	75.3	80.5	81.7	82.2	83.0	83.0	83.1	83.5	83.8	83.8	84.0	84.9	85.6	86.3	
GE 4000	75.2	78.8	84.3	85.5	85.9	86.9	86.9	87.0	87.5	87.7	87.7	88.0	88.9	89.6	90.3	
GE 3500	76.1	79.8	85.3	86.5	86.9	87.8	87.8	88.0	88.5	89.7	89.7	89.9	89.9	90.5	91.3	
GE 3000	77.6	81.5	87.5	89.0	89.5	90.8	91.1	91.2	91.7	91.9	91.9	92.2	93.1	93.8	94.6	
GE 2500	78.1	81.9	88.1	89.6	90.0	91.3	91.6	91.7	92.3	92.5	92.5	92.7	93.7	94.3	95.2	
GE 2000	78.7	82.7	88.8	90.3	90.8	92.0	92.4	92.5	93.0	93.2	93.2	93.4	94.4	95.1	95.9	
GE 1800	79.0	83.0	89.1	90.6	91.1	92.4	92.7	92.9	93.4	93.7	93.7	93.9	94.8	95.5	96.3	
GE 1500	79.8	84.2	90.4	92.3	92.7	94.4	94.7	95.2	95.8	96.0	96.0	96.2	97.2	97.8	98.7	
GE 1200	79.8	84.3	90.5	92.4	92.8	94.5	94.8	95.3	95.9	96.1	96.1	96.3	97.3	98.0	98.8	
GE 1000	79.9	84.4	90.6	92.5	92.9	94.6	94.9	95.5	96.2	96.5	96.5	96.7	97.6	98.3	99.1	
GE 900	79.9	84.4	90.6	92.5	92.9	94.6	94.9	95.5	96.2	96.5	96.5	96.7	97.6	98.3	99.1	
GE 800	79.9	84.5	90.9	92.7	93.1	94.8	95.2	95.7	96.5	96.7	96.7	96.9	97.8	98.5	99.4	
GE 700	79.9	84.5	90.9	92.7	93.1	94.8	95.2	95.7	96.5	96.7	96.7	96.9	97.8	98.5	99.4	
GE 600	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.0	98.6	99.5	
GE 500	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.0	98.6	99.5	
GE 400	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.0	98.6	99.5	
GE 300	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.0	98.6	99.5	
GE 200	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.0	98.6	99.5	
GE 100	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.0	98.6	99.5	
GE 0	79.9	84.5	90.9	92.7	93.1	94.9	95.3	95.8	96.6	96.8	96.8	97.0	98.1	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSIEIN AB GERMANY

PERIOD OF RECORD: 74-87  
MONTH: AUG HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		43.9	50.0	56.0	56.9	57.2	58.8	59.6	59.7	61.4	61.4	61.7	61.7	62.8	63.4	64.3
GE 20000		45.4	51.5	57.7	58.6	59.1	60.9	61.6	61.7	63.5	63.5	63.9	63.9	64.9	65.7	66.6
GE 18000		45.4	51.5	57.7	58.6	59.1	60.9	61.6	61.7	63.5	63.5	63.9	63.9	64.9	65.7	66.6
GE 16000		45.4	51.5	57.7	58.6	59.1	60.9	61.6	61.7	63.5	63.5	63.9	63.9	64.9	65.7	66.6
GE 14000		45.5	51.6	57.8	58.7	59.2	61.0	61.7	61.8	63.7	63.7	64.0	64.0	65.1	65.8	66.7
GE 12000		46.3	52.5	58.7	59.6	60.1	61.8	62.6	62.7	64.5	64.5	64.8	64.8	66.0	66.9	67.7
GE 10000		47.8	54.1	60.3	61.2	61.7	63.4	64.3	64.4	66.2	66.2	66.6	66.6	67.8	68.7	69.6
GE 9000		48.3	54.5	60.9	61.7	62.3	64.0	64.8	64.9	66.8	66.8	67.1	67.1	68.4	69.2	70.1
GE 8000		51.2	57.5	64.3	65.2	65.8	67.5	68.4	68.5	70.3	70.3	70.6	70.6	71.9	72.8	73.7
GE 7000		51.5	57.8	64.6	65.5	66.1	67.8	68.7	68.8	70.6	70.6	71.0	71.0	72.3	73.1	74.0
GE 6000		51.6	58.0	64.7	65.6	66.2	68.0	68.8	68.9	70.8	70.8	71.1	71.1	72.4	73.2	74.1
GE 5000		53.2	59.7	66.6	67.4	68.2	69.9	70.8	70.9	72.8	72.8	73.1	73.4	74.7	75.6	76.5
GE 4500		55.7	62.5	69.5	70.3	71.2	73.2	74.1	74.3	76.3	76.3	76.7	77.0	78.3	79.1	80.1
GE 4000		58.4	65.3	72.8	73.8	74.6	76.9	77.8	78.1	80.3	80.3	80.6	81.0	82.4	83.2	84.2
GE 3500		59.6	66.5	74.5	75.5	76.3	78.6	79.6	79.8	82.0	82.0	82.4	82.8	84.2	85.1	86.0
GE 3000		61.5	68.7	77.4	78.4	79.4	82.4	83.9	84.1	86.5	86.5	86.8	87.2	88.6	89.5	90.5
GE 2500		62.2	69.4	78.4	79.5	80.4	83.4	84.9	85.2	87.5	87.5	87.8	88.3	89.7	90.5	91.6
GE 2000		62.9	70.3	79.5	80.9	81.8	84.8	86.3	86.6	89.0	89.0	89.4	89.8	91.2	92.0	93.1
GE 1800		63.3	70.6	80.1	81.5	82.5	85.5	87.0	87.2	89.7	89.7	90.0	90.4	91.8	92.7	93.8
GE 1500		64.1	71.8	81.6	83.3	84.3	87.3	88.8	89.2	91.7	91.7	92.0	92.5	93.9	94.7	95.8
GE 1200		64.4	72.2	82.0	83.8	84.7	88.0	89.5	89.9	92.6	92.6	92.9	93.3	94.7	95.6	96.7
GE 1000		64.7	72.7	82.6	84.3	85.3	88.5	90.0	90.4	93.2	93.2	93.5	94.0	95.4	96.3	97.4
GE 900		64.6	72.9	82.8	84.5	85.5	88.7	90.2	90.6	93.4	93.4	93.8	94.2	95.6	96.6	97.6
GE 800		64.8	72.9	82.8	84.5	85.5	88.7	90.2	90.6	93.4	93.4	93.8	94.2	95.6	96.6	97.6
GE 700		64.9	73.0	82.9	84.6	85.6	88.8	90.3	90.8	93.5	93.5	93.9	94.3	95.7	96.7	97.7
GE 600		64.9	73.0	82.9	84.6	85.6	89.1	90.6	91.1	93.9	93.9	94.2	94.6	96.0	97.0	98.1
GE 500		64.9	73.0	82.9	84.6	85.6	89.1	90.6	91.1	94.0	94.0	94.3	94.7	96.1	97.1	98.2
GE 400		64.9	73.1	83.0	84.7	85.7	89.2	90.8	91.2	94.1	94.1	94.4	94.8	96.2	97.2	98.3
GE 300		64.9	73.1	83.0	84.7	85.7	89.2	90.9	91.3	94.3	94.3	94.6	95.1	96.5	97.4	98.5
GE 200		64.9	73.1	83.0	84.7	85.7	89.2	90.9	91.3	94.3	94.3	94.6	95.1	96.5	97.4	98.7
GE 100		64.9	73.1	83.0	84.7	85.7	89.2	90.9	91.3	94.3	94.3	94.6	95.1	96.5	97.5	99.2
GE 01		64.9	73.1	83.0	84.7	85.7	89.2	90.9	91.3	94.5	94.5	94.8	95.4	96.9	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAF/CATC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: AUG HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.6	30.2	37.2	39.7	40.2	43.2	44.9	45.7	47.6	48.2	48.3	48.5	49.7	50.5	51.5
GE 2000	28.0	32.8	40.4	43.0	43.5	46.8	48.5	49.6	51.7	52.4	52.6	52.9	54.2	55.3	56.5	
GE 1800	28.0	32.8	40.4	43.0	43.5	46.8	48.5	49.6	51.7	52.4	52.6	52.9	54.2	55.3	56.5	
GE 1600	28.0	32.8	40.4	43.0	43.5	46.8	48.5	49.6	51.7	52.4	52.6	52.9	54.2	55.3	56.5	
GE 1400	28.0	32.8	40.6	43.2	43.8	47.0	48.7	49.8	51.9	52.6	52.8	53.1	54.4	55.5	56.7	
GE 1200	28.7	33.5	41.4	44.1	44.6	48.0	49.7	50.8	52.9	53.5	53.8	54.1	55.4	56.5	57.7	
GE 1000	30.0	35.4	43.9	47.6	47.1	50.8	52.5	53.5	55.7	56.5	56.7	57.0	58.3	59.4	60.6	
GE 900	30.2	35.6	44.2	47.1	47.6	51.3	53.0	54.2	56.3	57.1	57.3	57.6	58.9	60.0	61.3	
GE 800	33.0	38.8	48.0	51.2	51.8	55.5	57.2	58.4	60.9	61.6	61.9	62.3	63.7	64.7	66.1	
GE 700	33.4	39.6	48.8	52.0	52.7	56.5	58.2	59.4	62.0	62.8	63.1	63.5	64.9	66.0	67.4	
GE 600	33.4	39.9	49.1	52.4	53.0	56.8	58.5	59.7	62.4	63.1	63.4	63.7	65.3	66.3	67.8	
GE 500	34.9	41.4	51.0	54.6	55.3	59.1	61.2	62.5	65.2	65.9	66.2	66.7	68.1	69.1	70.6	
GE 450	37.1	43.9	53.7	57.4	58.1	62.4	64.5	65.8	68.6	69.4	69.7	70.1	71.5	72.6	74.2	
GE 400	39.8	47.1	57.4	61.7	62.4	66.8	68.7	70.2	73.2	74.0	74.4	74.8	76.2	77.3	78.9	
GE 350	41.8	49.6	59.9	64.3	65.2	69.6	71.8	73.2	76.6	77.3	77.7	78.2	79.6	80.6	82.3	
GE 300	44.2	52.0	62.9	67.3	68.4	73.0	75.6	77.2	81.1	81.8	82.3	82.7	84.1	85.2	87.0	
GE 250	44.8	52.7	63.5	68.0	69.0	73.7	76.2	77.8	81.7	82.5	82.9	83.3	84.7	85.8	87.6	
GE 200	45.4	53.4	64.7	69.4	70.4	75.1	77.8	79.5	83.4	84.2	84.6	85.1	86.5	87.5	89.4	
GE 180	45.9	54.0	65.3	69.9	71.0	75.6	78.4	80.0	84.0	84.7	85.2	85.6	87.0	88.1	89.9	
GE 150	47.5	55.7	67.7	72.5	73.8	78.6	81.5	83.3	87.4	88.2	88.6	89.0	90.4	91.5	93.3	
GE 120	48.0	56.1	68.3	73.1	74.4	79.2	82.3	84.1	88.4	89.1	89.6	90.0	91.4	92.5	94.3	
GE 100	48.1	56.2	68.5	73.5	74.8	79.8	82.8	84.6	89.1	89.9	90.4	91.1	92.5	93.5	95.4	
GE 90	48.1	56.2	68.5	73.8	75.1	80.1	83.1	84.9	89.5	90.2	90.8	91.4	92.8	93.9	95.7	
GE 80	48.3	56.7	68.9	74.2	75.5	80.5	83.5	85.4	90.0	90.8	91.3	92.0	93.4	94.5	96.3	
GE 70	48.4	56.8	69.0	74.6	75.9	81.0	84.0	85.8	90.4	91.2	91.7	92.5	93.9	94.9	96.8	
GE 60	48.5	56.9	69.4	74.9	76.2	81.4	84.5	86.5	91.1	91.8	92.4	93.1	94.5	95.6	97.4	
GE 50	48.5	56.9	69.4	74.9	76.2	81.5	84.6	86.6	91.2	91.9	92.5	93.2	94.6	95.7	97.5	
GE 40	48.5	56.9	69.4	74.9	76.2	81.5	84.6	86.6	91.2	91.9	92.5	93.2	94.6	95.7	97.5	
GE 30	48.5	56.9	69.4	74.9	76.2	81.5	84.6	86.6	91.2	91.9	92.6	93.3	94.7	95.8	97.6	
GE 20	48.5	56.9	69.4	74.9	76.2	81.5	84.6	86.6	91.2	91.9	92.7	93.4	94.8	95.9	98.1	
GE 10	48.5	56.9	69.4	74.9	76.2	81.5	84.6	86.6	91.3	92.0	92.8	93.5	95.2	96.7	99.8	
GE 0	48.5	56.9	69.4	74.9	76.2	81.5	84.6	86.6	91.3	92.0	92.8	93.5	95.2	96.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: AUG HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		29.6	33.3	40.5	43.3	43.7	44.6	45.1	45.2	45.6	45.6	45.6	45.7	45.8	46.0	46.0
GE 20000		33.5	37.3	45.4	48.4	49.1	50.1	50.8	50.9	51.3	51.3	51.3	51.4	51.5	51.8	51.8
GE 18000		33.8	37.5	45.6	48.6	49.4	50.3	51.0	51.1	51.5	51.5	51.5	51.6	51.7	52.0	52.0
GE 16000		33.9	37.6	45.7	48.7	49.5	50.4	51.1	51.2	51.6	51.6	51.6	51.7	51.8	52.2	52.2
GE 14000		34.4	38.2	46.6	49.6	50.3	51.3	51.9	52.0	52.5	52.5	52.5	52.6	52.7	53.0	53.0
GE 12000		35.1	38.8	47.4	50.4	51.2	52.2	52.8	52.9	53.3	53.3	53.3	53.4	53.5	53.9	53.9
GE 10000		37.3	41.5	50.3	53.3	54.1	55.1	55.7	55.8	56.3	56.3	56.3	56.5	56.6	57.0	57.0
GE 9000		37.7	41.9	51.0	54.1	54.8	55.3	56.5	56.6	57.1	57.1	57.1	57.2	57.3	57.7	57.7
GE 8000		39.8	44.2	53.7	56.8	57.5	58.5	59.1	59.2	60.0	60.0	60.0	60.1	60.2	60.6	60.6
GE 7000		40.8	45.3	55.1	58.4	59.1	60.1	60.8	60.9	61.6	61.6	61.6	61.7	61.8	62.3	62.3
GE 6000		41.2	45.8	55.6	58.9	59.7	60.6	61.3	61.4	62.2	62.2	62.2	62.3	62.4	62.8	62.8
GE 5000		43.7	48.3	58.3	61.9	62.8	64.2	65.1	65.2	65.9	65.9	65.9	66.0	66.1	66.6	66.6
GE 4500		46.0	51.2	61.2	64.8	65.7	67.2	68.1	68.2	68.9	68.9	68.9	69.0	69.1	69.6	69.6
GE 4000		49.7	55.3	65.8	69.9	70.8	72.4	73.2	73.3	74.2	74.2	74.2	74.3	74.4	74.8	74.8
GE 3500		51.6	57.4	68.3	72.6	73.5	75.6	76.5	76.6	77.5	77.5	77.5	77.6	77.7	78.3	78.3
GE 3000		55.3	61.2	72.4	77.4	78.4	80.9	81.8	82.0	83.2	83.2	83.2	83.4	83.5	84.1	84.2
GE 2500		56.3	62.4	73.7	78.8	79.8	82.3	83.4	83.7	84.8	84.8	84.8	85.1	85.2	85.7	85.8
GE 2000		58.5	64.7	76.2	81.5	82.5	84.9	86.2	86.5	87.8	87.8	87.8	88.1	88.2	88.7	88.8
GE 1800		58.8	65.1	76.6	81.8	82.8	85.3	86.7	86.9	88.3	88.3	88.3	88.5	88.6	89.1	89.2
GE 1500		61.4	67.8	80.3	85.8	86.9	89.6	91.1	91.3	92.7	92.7	92.7	92.9	93.0	93.5	93.7
GE 1200		62.7	69.4	81.9	87.4	88.5	91.2	92.8	93.1	94.7	94.7	94.7	94.9	95.1	95.6	95.7
GE 1000		62.8	69.5	82.4	88.0	89.0	91.7	93.3	93.9	95.8	95.8	95.8	96.0	96.1	96.7	96.6
GE 900		62.8	69.5	82.4	88.1	89.1	91.8	93.4	94.0	95.9	95.9	95.9	96.1	96.2	96.8	96.9
GE 800		62.9	69.7	82.6	88.5	89.6	92.4	94.1	94.6	96.9	96.9	96.9	97.1	97.2	97.7	97.8
GE 700		63.1	69.9	82.9	88.8	89.9	92.7	94.5	95.1	97.4	97.4	97.4	97.6	97.7	98.3	98.4
GE 600		63.1	70.1	83.1	89.0	90.1	92.9	94.7	95.3	97.7	97.7	97.7	98.0	98.1	98.6	98.7
GE 500		63.1	70.1	83.1	89.0	90.1	93.0	94.9	95.5	98.1	98.1	98.1	98.3	98.4	98.9	99.0
GE 400		63.1	70.1	83.1	89.0	90.1	93.0	94.9	95.6	98.2	98.2	98.2	98.4	98.5	99.0	99.1
GE 300		63.1	70.1	83.1	89.0	90.1	93.0	94.9	95.6	98.2	98.3	98.3	98.5	98.6	99.1	99.2
GE 200		63.1	70.1	83.1	89.0	90.1	93.0	94.9	95.6	98.3	98.5	98.5	98.7	98.8	99.4	99.5
GE 100		63.1	70.1	83.1	89.0	90.1	93.0	94.9	95.6	98.3	98.5	98.6	98.8	98.9	99.7	99.9
GE 0		63.1	70.1	83.1	89.0	90.1	93.0	94.9	95.6	98.3	98.5	98.6	98.8	98.9	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: AUG HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	39.4	40.6	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
GE 20000	46.6	47.8	49.0	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 18000	46.7	48.0	49.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 16000	47.1	48.4	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 14000	47.4	48.8	50.2	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	48.4	49.8	51.2	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 10000	51.7	53.2	54.8	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 9000	51.9	53.4	55.1	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 8000	54.0	55.6	57.5	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
GE 7000	55.2	57.1	59.1	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 6000	55.4	57.3	59.4	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 5000	58.0	60.2	62.3	62.7	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 4500	61.8	64.1	66.2	66.7	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 4000	67.3	69.6	72.2	72.6	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 3500	71.0	73.2	76.1	76.8	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 3000	80.3	83.2	86.7	87.3	87.5	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 2500	81.5	84.4	88.3	89.1	89.4	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2000	83.8	86.7	90.6	91.7	91.9	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1800	84.2	87.1	91.1	92.2	92.4	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1500	86.1	89.1	94.2	95.9	96.2	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1200	86.8	89.8	95.2	97.0	97.3	98.0	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1000	87.2	90.3	95.9	97.8	98.2	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 900	87.2	90.3	95.9	98.0	98.4	99.0	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	87.2	90.3	95.9	98.1	98.5	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: AUG HOURS(LST): 1500-1700

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		37.8	38.1	38.8	38.9	36.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 20000		47.2	47.4	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 18000		47.6	47.8	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 16000		47.8	48.1	48.9	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 14000		48.5	48.7	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 12000		49.2	49.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 10000		51.4	51.7	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 9000		51.8	52.2	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 8000		54.9	55.4	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 7000		56.2	56.7	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	57.5	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 5000		61.4	61.9	63.8	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 4500		68.3	68.8	70.6	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 4000		75.7	76.5	78.4	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 3500		81.6	82.5	84.5	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 3000		89.4	90.3	92.8	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 2500		90.2	91.3	93.8	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 2000		91.5	92.6	95.2	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800		91.9	93.0	95.7	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1500		92.8	93.9	96.8	97.7	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1200		93.0	94.1	97.5	98.7	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1000		93.5	94.8	98.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900		93.5	94.8	98.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800		93.5	94.8	98.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		93.5	94.8	98.5	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AR GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: AUG HOURS(LST): 1800-2000

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CLIL		45.9	46.3	46.8	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		54.5	55.2	55.7	55.8	55.8	55.9	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 18000		54.9	55.6	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 16000		54.9	55.6	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 14000		55.5	56.2	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 12000		57.0	57.7	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 10000		60.1	61.1	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
GE 9000		61.5	62.5	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 8000		67.7	68.8	70.2	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 7000		69.4	70.4	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 6000		70.3	71.4	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 5000		74.2	75.7	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 4500		79.5	81.0	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 4000		84.0	85.5	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 3500		88.5	90.2	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 3000		90.8	92.7	95.1	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 2500		91.1	93.0	95.6	95.9	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 2000		92.0	94.1	96.9	97.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1800		92.5	94.5	97.3	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500		92.8	95.1	97.8	98.8	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1200		92.9	95.2	98.0	99.0	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 1000		93.1	95.4	98.2	99.2	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 900		93.1	95.4	98.2	99.2	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 01		93.2	95.5	98.3	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAHSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: AUG HOURS (LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL	51.8	53.2	55.4	55.6	55.7	55.8	55.9	56.0	56.2	56.2	56.2	56.2	56.5	56.5	56.5	
GE 2000	60.2	61.8	64.0	64.3	64.4	64.6	64.7	64.8	65.1	65.1	65.1	65.1	65.3	65.3	65.3	
GE 1800	60.3	61.9	64.1	64.4	64.5	64.7	64.8	64.9	65.2	65.2	65.2	65.2	65.4	65.4	65.4	
GE 1600	60.3	61.9	64.1	64.4	64.5	64.7	64.8	64.9	65.2	65.2	65.2	65.2	65.4	65.4	65.4	
GE 1400	60.4	62.0	64.2	64.5	64.6	64.8	64.9	65.1	65.3	65.3	65.3	65.3	65.5	65.5	65.5	
GE 1200	61.4	63.1	65.4	65.7	65.8	66.0	66.1	66.2	66.5	66.5	66.5	66.5	66.7	66.7	66.7	
GE 1000	64.7	66.6	69.1	69.6	69.7	70.0	70.1	70.2	70.4	70.4	70.4	70.4	70.6	70.6	70.6	
GE 900	65.2	67.1	69.7	70.1	70.2	70.5	70.6	70.8	71.0	71.0	71.0	71.0	71.2	71.3	71.3	
GE 800	69.9	71.9	74.7	75.2	75.3	75.6	75.7	75.8	76.0	76.0	76.0	76.0	76.2	76.3	76.3	
GE 700	71.5	73.5	76.8	77.2	77.3	77.6	77.7	77.8	78.1	78.1	78.1	78.1	78.3	78.4	78.4	
GE 600	72.3	74.5	77.7	78.2	78.3	78.6	78.7	78.8	79.0	79.0	79.0	79.0	79.2	79.4	79.4	
GE 500	74.2	76.7	80.0	80.4	80.5	81.1	81.2	81.3	81.5	81.5	81.5	81.5	81.7	81.9	81.9	
GE 450	79.5	82.0	85.6	86.0	86.1	86.7	86.8	86.9	87.3	87.3	87.3	87.3	87.5	87.7	87.7	
GE 400	82.2	84.8	88.5	88.9	89.0	89.6	89.7	89.8	90.2	90.2	90.2	90.2	90.4	90.6	90.6	
GE 350	84.2	87.0	90.6	91.1	91.2	91.7	91.8	91.9	92.4	92.4	92.4	92.4	92.6	92.8	92.8	
GE 300	87.0	90.0	94.2	94.7	94.8	95.5	95.6	95.7	96.1	96.1	96.1	96.1	96.3	96.6	96.6	
GE 250	87.3	90.3	94.6	95.2	95.3	95.9	96.0	96.1	96.6	96.6	96.6	96.6	96.8	97.0	97.0	
GE 200	88.1	91.2	95.5	96.0	96.1	96.8	96.9	97.0	97.4	97.4	97.4	97.4	97.6	97.8	97.8	
GE 180	88.1	91.3	95.6	96.1	96.2	96.9	97.0	97.1	97.5	97.5	97.5	97.5	97.7	98.0	98.0	
GE 150	88.2	91.6	95.9	96.8	96.9	97.5	97.6	98.0	98.4	98.4	98.4	98.4	98.6	98.8	98.8	
GE 120	88.2	91.6	96.2	97.1	97.2	98.0	98.1	98.4	98.8	98.8	98.8	98.8	99.0	99.2	99.2	
GE 100	88.2	91.6	96.3	97.2	97.3	98.1	98.2	98.5	98.9	98.9	98.9	98.9	99.1	99.4	99.4	
GE 90	88.2	91.6	96.3	97.2	97.3	98.1	98.2	98.6	99.0	99.0	99.0	99.0	99.2	99.5	99.5	
GE 80	88.4	91.9	96.7	97.5	97.6	98.4	98.5	98.9	99.4	99.4	99.4	99.4	99.6	99.8	99.8	
GE 70	88.4	91.9	96.7	97.5	97.6	98.4	98.5	98.9	99.4	99.4	99.4	99.4	99.6	99.8	99.8	
GE 60	88.4	91.9	96.7	97.5	97.6	98.4	98.5	98.9	99.4	99.4	99.4	99.4	99.6	99.8	99.8	
GE 50	98.5	92.0	96.8	97.6	97.7	98.5	98.6	99.0	99.5	99.5	99.5	99.5	99.7	99.9	99.9	
GE 40	88.5	92.0	96.8	97.6	97.7	98.5	98.6	99.0	99.5	99.5	99.5	99.5	99.7	99.9	99.9	
GE 30	88.5	92.0	96.8	97.6	97.7	98.5	98.6	99.0	99.5	99.5	99.5	99.5	99.7	99.9	99.9	
GE 20	88.5	92.0	96.8	97.6	97.7	98.5	98.6	99.0	99.5	99.5	99.5	99.5	99.7	99.9	99.9	
GE 10	88.5	92.0	96.8	97.6	97.7	98.5	98.6	99.0	99.5	99.5	99.5	99.5	99.7	99.9	99.9	
GE 0	88.5	92.0	96.8	97.6	97.7	98.5	98.6	99.0	99.5	99.5	99.5	99.5	99.7	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: AUG HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		41.0	43.5	47.0	47.9	48.2	49.0	49.3	49.5	50.1	50.1	50.2	50.3	50.7	51.0	51.2
GE 2000	46.5	49.2	53.0	54.0	54.3	55.2	55.6	55.8	56.0	56.4	56.5	56.6	56.7	57.1	57.4	57.7
GE 1800	46.7	49.4	53.2	54.2	54.5	55.4	55.8	56.0	56.6	56.7	56.8	56.8	57.3	57.6	57.9	
GE 1600	46.8	49.5	53.3	54.3	54.6	55.5	55.9	56.1	56.7	56.8	56.9	56.9	57.4	57.7	58.0	
GE 1400	47.1	49.8	53.7	54.8	55.1	55.9	56.3	56.5	57.1	57.2	57.3	57.4	57.8	58.2	58.5	
GE 1200	48.0	50.7	54.7	55.8	56.1	56.9	57.3	57.5	58.1	58.3	58.3	58.4	58.9	59.2	59.5	
GE 1000	50.4	53.3	57.6	58.7	59.0	59.9	60.3	60.5	61.2	61.3	61.4	61.4	61.9	62.3	62.6	
GE 900	50.9	53.9	58.2	59.4	59.7	60.6	61.0	61.2	61.9	62.0	62.0	62.1	62.6	63.0	63.3	
GE 800	54.3	57.4	62.1	63.3	63.6	64.6	65.0	65.2	65.9	66.0	66.1	66.2	66.7	67.0	67.4	
GE 700	55.3	58.5	63.3	64.6	64.9	65.8	66.3	66.5	67.2	67.3	67.4	67.5	68.0	68.3	68.7	
GE 600	55.8	59.1	63.9	65.1	65.5	66.4	66.8	67.0	67.8	67.9	68.0	68.1	68.5	68.9	69.3	
GE 500	56.4	61.9	66.9	68.2	68.6	69.7	70.2	70.4	71.1	71.3	71.3	71.5	72.0	72.4	72.6	
GE 450	62.4	66.1	71.3	72.6	73.0	74.2	74.7	74.9	75.7	75.8	75.9	76.0	76.5	76.9	77.4	
GE 400	66.5	70.3	75.8	77.3	77.7	79.0	79.5	79.7	80.6	80.7	80.8	81.0	81.5	81.9	82.3	
GE 350	69.3	73.3	78.9	80.5	80.9	82.2	82.8	83.0	84.0	84.1	84.2	84.3	84.6	85.2	85.7	
GE 300	73.3	77.5	83.6	85.3	85.6	87.4	88.1	88.4	89.4	89.6	89.7	89.8	90.3	90.8	91.2	
GE 250	73.9	78.2	84.5	86.3	86.7	88.3	89.1	89.4	90.4	90.5	90.6	90.8	91.3	91.7	92.2	
GE 200	75.1	79.5	85.9	87.8	88.3	89.9	90.7	91.0	92.1	92.2	92.3	92.4	92.9	93.4	93.8	
GE 180	75.5	79.8	86.3	88.2	88.7	90.3	91.1	91.4	92.5	92.6	92.7	92.9	93.4	93.8	94.3	
GE 150	76.6	81.2	88.1	90.4	90.9	92.7	93.5	93.9	95.0	95.2	95.3	95.4	95.9	96.3	96.6	
GE 120	77.0	81.6	88.7	91.1	91.6	93.4	94.3	94.7	95.9	96.1	96.2	96.3	96.8	97.2	97.7	
GE 100	77.2	81.9	89.1	91.5	92.1	93.9	94.7	95.3	96.6	96.7	96.8	97.0	97.5	97.9	98.4	
GE 90	77.2	81.9	89.1	91.6	92.2	94.0	94.9	95.4	96.7	96.8	96.9	97.1	97.6	98.1	98.6	
GE 80	77.3	82.0	89.3	91.8	92.4	94.2	95.1	95.6	97.0	97.1	97.2	97.4	97.9	98.4	98.9	
GE 70	77.3	82.1	89.4	91.9	92.5	94.3	95.2	95.8	97.2	97.3	97.4	97.6	98.1	98.5	99.0	
GE 60	77.4	82.1	89.4	92.0	92.6	94.4	95.4	95.9	97.3	97.4	97.6	97.8	98.3	98.7	99.2	
GE 50	77.4	82.2	89.5	92.0	92.6	94.5	95.4	96.0	97.4	97.5	97.6	97.8	98.3	98.8	99.3	
GE 40	77.4	82.2	89.5	92.0	92.6	94.5	95.4	96.0	97.4	97.6	97.7	97.9	98.4	98.8	99.3	
GE 30	77.4	82.2	89.5	92.0	92.6	94.5	95.5	96.0	97.5	97.6	97.7	97.9	98.4	98.9	99.3	
GE 20	77.4	82.2	89.5	92.0	92.6	94.5	95.5	96.0	97.5	97.6	97.8	98.0	98.5	98.9	99.4	
GE 10	77.4	82.2	89.5	92.0	92.6	94.5	95.5	96.0	97.5	97.6	97.8	98.0	98.5	99.0	99.8	
GE 0	77.4	82.2	89.5	92.0	92.6	94.5	95.5	96.0	97.5	97.7	97.8	98.0	98.6	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: SEP HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GL 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	34.9	40.8	45.2	46.8	47.0	48.3	49.3	49.9	52.1	52.2	52.7	52.8	53.4	54.3	55.1	
GE 20000	37.9	44.2	48.7	50.7	50.9	52.3	53.3	53.9	56.2	56.3	56.8	56.9	57.6	58.4	59.3	
GE 18000	38.0	44.3	48.8	50.8	51.0	52.4	53.4	54.0	56.3	56.4	56.9	57.0	57.7	58.6	59.4	
GE 16000	38.0	44.3	48.8	50.8	51.0	52.4	53.4	54.0	56.3	56.4	56.9	57.0	57.7	58.6	59.4	
GE 14000	38.2	44.6	49.0	51.0	51.2	52.7	53.7	54.2	56.6	56.7	57.1	57.2	57.9	58.8	59.7	
GE 12000	38.6	44.9	49.3	51.3	51.6	53.0	54.0	54.6	56.9	57.0	57.4	57.6	58.2	59.1	60.0	
GE 10000	40.8	47.2	51.7	53.7	53.9	55.4	56.4	57.0	59.3	59.6	60.0	60.2	61.0	61.9	62.8	
GE 9000	41.9	48.6	53.1	55.1	55.3	56.9	57.9	58.4	60.8	61.0	61.4	61.7	62.4	63.3	64.2	
GE 8000	44.9	51.8	56.7	58.9	59.1	60.7	61.7	62.2	64.7	64.9	65.3	65.7	66.4	67.3	68.2	
GE 7000	46.3	53.2	58.1	60.3	60.6	62.1	63.1	63.7	66.1	66.3	66.8	67.1	67.9	68.8	69.7	
GE 6000	46.8	53.7	58.7	60.9	61.1	62.7	63.7	64.2	66.7	66.9	67.3	67.7	68.4	69.3	70.2	
GE 5000	49.7	56.9	62.0	64.6	64.8	66.7	67.7	68.2	70.7	70.9	71.3	71.8	72.6	73.4	74.3	
GE 4500	52.3	59.8	64.9	67.4	67.7	69.6	70.7	71.2	73.7	73.9	74.3	74.8	75.6	76.4	77.3	
GE 4000	56.2	64.0	70.2	72.9	73.1	75.0	76.1	76.7	79.1	79.3	79.8	80.2	81.0	81.9	82.8	
GE 3500	57.8	66.0	73.1	75.8	76.1	78.1	79.2	79.8	82.2	82.4	82.9	83.3	84.1	85.0	85.9	
GE 3000	61.7	70.1	78.4	81.7	82.0	84.1	85.2	85.9	88.3	88.6	89.0	89.6	90.3	91.2	92.1	
GE 2500	62.7	71.1	79.4	82.7	83.0	85.1	86.2	86.9	89.3	89.6	90.0	90.6	91.3	92.2	93.1	
GE 2000	63.8	72.2	80.6	83.8	84.1	86.3	87.4	88.1	90.6	90.8	91.2	91.8	92.6	93.4	94.3	
GE 1800	63.8	72.2	80.6	83.8	84.1	86.3	87.4	88.1	90.6	90.8	91.2	91.8	92.6	93.4	94.3	
GE 1500	64.3	72.8	81.3	84.7	85.0	87.2	88.3	89.0	91.4	91.7	92.1	92.7	93.6	94.4	95.3	
GE 1200	65.0	73.4	82.1	85.6	85.9	88.1	89.2	89.9	92.3	92.6	93.0	93.6	94.6	95.4	96.3	
GE 1000	65.2	73.7	83.0	86.6	86.9	89.1	90.2	90.9	93.3	93.6	94.0	94.6	95.6	96.4	97.3	
GE 900	65.2	73.7	83.1	86.7	87.0	89.2	90.3	91.0	93.4	93.7	94.1	94.7	95.7	96.6	97.4	
GE 800	65.2	73.9	83.4	87.0	87.3	89.6	90.7	91.3	93.8	94.0	94.4	95.1	96.1	97.0	97.9	
GE 700	65.2	73.9	83.4	87.0	87.3	89.6	90.7	91.3	93.8	94.0	94.4	95.1	96.1	97.0	97.9	
GE 600	65.2	73.9	83.4	87.0	87.3	89.6	90.7	91.3	93.6	94.0	94.4	95.1	96.1	97.0	97.9	
GE 500	65.4	74.1	83.7	87.2	87.6	89.8	90.9	91.6	94.0	94.2	94.7	95.3	96.3	97.2	98.1	
GE 400	65.4	74.1	83.7	87.2	87.6	89.9	91.0	91.7	94.1	94.3	94.8	95.4	96.4	97.3	98.2	
GE 300	65.4	74.1	83.7	87.2	87.6	89.9	91.0	91.7	94.1	94.4	94.9	95.6	96.6	97.4	98.3	
GE 200	65.4	74.1	83.7	87.2	87.6	89.9	91.0	91.7	94.2	94.6	95.0	95.7	96.8	97.7	98.6	
GE 100	65.4	74.1	83.7	87.2	87.6	89.9	91.0	91.7	94.2	94.6	95.0	95.7	96.8	97.7	98.6	
GE 0	65.4	74.1	83.7	87.2	87.6	89.9	91.0	91.7	94.2	94.6	95.0	95.8	96.9	98.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: SEP HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	27.4	30.7	34.0	35.3	35.6	38.1	39.2	39.7	42.2	43.2	43.4	44.6	45.6	47.0	49.4	
GE 20000	29.7	33.2	36.7	38.2	38.6	41.1	42.3	42.8	45.7	46.8	47.0	48.1	49.1	50.6	53.6	
GE 18000	29.7	33.2	36.7	38.2	38.6	41.1	42.3	42.8	45.7	46.8	47.0	48.1	49.1	50.6	53.6	
GE 16000	29.7	33.2	36.7	38.2	38.6	41.1	42.3	42.8	45.7	46.8	47.0	48.1	49.1	50.6	53.6	
GE 14000	29.7	33.2	36.7	38.2	38.6	41.1	42.3	42.8	45.7	46.8	47.0	48.1	49.1	50.6	53.6	
GE 12000	29.8	33.3	36.8	38.3	38.7	41.2	42.4	42.9	45.8	46.9	47.1	48.2	49.2	50.7	53.7	
GE 10000	31.8	35.3	39.3	41.0	41.3	43.9	45.1	45.7	48.8	49.9	50.1	51.2	52.2	53.7	56.7	
GE 9000	32.7	36.2	40.2	41.9	42.2	44.8	46.0	46.6	49.7	50.8	51.0	52.1	53.1	54.6	57.6	
GE 8000	35.2	39.0	43.1	44.8	45.1	47.8	49.0	49.6	52.7	53.8	54.0	55.1	56.1	57.8	61.0	
GE 7000	36.1	39.9	44.0	45.7	46.0	48.7	49.9	50.4	53.6	54.7	54.9	56.0	57.0	58.7	62.0	
GE 6000	36.1	39.9	44.1	45.8	46.1	48.8	50.0	50.6	53.7	54.8	55.0	56.1	57.1	58.8	62.1	
GE 5000	38.9	42.9	47.4	49.3	49.7	52.4	53.7	54.2	57.3	58.4	58.7	59.8	61.0	62.7	66.1	
GE 4500	42.4	46.9	51.4	53.3	53.7	56.7	57.9	58.4	61.9	63.0	63.2	64.3	65.6	67.2	70.7	
GE 4000	46.1	50.6	56.2	58.6	59.0	62.0	63.2	63.8	67.3	68.4	68.7	69.8	71.0	72.7	76.1	
GE 3500	49.0	53.9	60.3	62.7	63.1	66.3	67.6	68.1	71.7	72.8	73.0	74.1	75.3	77.0	80.4	
GE 3000	52.4	57.7	65.2	67.8	68.7	72.2	73.6	74.2	77.9	79.0	79.2	80.3	81.6	83.2	86.7	
GE 2500	53.4	58.9	66.8	69.3	70.2	73.8	75.1	75.8	79.7	80.8	81.0	82.1	83.3	85.0	88.4	
GE 2000	54.6	60.1	68.2	70.8	71.7	75.6	77.0	77.8	81.9	83.0	83.2	84.3	85.6	87.2	90.7	
GE 1800	55.0	60.8	68.9	71.4	72.3	76.2	77.7	78.4	82.6	83.7	83.9	85.0	86.2	87.9	91.3	
GE 1500	56.2	62.0	70.1	72.8	73.7	77.6	79.0	79.8	83.9	85.0	85.2	86.3	87.6	89.2	92.7	
GE 1200	56.7	62.4	70.9	73.6	74.4	78.3	79.8	80.6	84.7	85.8	86.0	87.1	88.3	90.0	93.4	
GE 1000	56.7	62.4	71.2	74.1	75.0	78.9	80.3	81.1	85.3	86.4	86.7	87.8	89.0	90.7	94.1	
GE 900	56.7	62.4	71.2	74.1	75.0	78.9	80.3	81.1	85.3	86.4	86.7	87.8	89.0	90.7	94.1	
GE 800	56.7	62.4	71.3	74.2	75.1	79.0	80.4	81.2	85.4	86.6	86.8	87.9	89.1	90.8	94.2	
GE 700	56.7	62.4	71.3	74.2	75.1	79.1	80.6	81.3	85.6	86.7	86.9	88.0	89.2	90.9	94.3	
GE 600	56.7	62.4	71.3	74.2	75.1	79.1	80.6	81.3	85.6	86.7	86.9	88.0	89.2	90.9	94.3	
GE 500	56.7	62.4	71.3	74.2	75.1	79.1	80.6	81.3	85.6	86.7	86.9	88.0	89.2	90.9	94.3	
GE 400	56.8	62.6	71.4	74.3	75.2	79.2	80.7	81.4	85.7	86.8	87.0	88.1	89.3	91.0	94.4	
GE 300	56.8	62.6	71.4	74.3	75.2	79.2	80.7	81.6	85.8	86.9	87.1	88.2	89.4	91.3	95.1	
GE 200	56.8	62.6	71.4	74.3	75.2	79.3	80.8	81.7	85.9	87.0	87.2	88.3	89.7	92.1	96.2	
GE 100	56.8	62.6	71.4	74.3	75.2	79.3	80.8	81.7	86.0	87.1	87.3	88.4	89.8	92.2	96.4	
GE 0	56.8	62.6	71.4	74.3	75.2	79.3	80.8	81.7	86.0	87.1	87.3	88.6	89.9	93.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: SEP HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEILING	15.2	17.8	23.0	24.9	25.2	26.6	27.7	28.2	30.7	31.6	32.2	33.3	34.2	35.4	37.4	
GE 20000	17.1	20.0	25.9	27.9	28.2	29.8	30.9	31.4	33.9	34.8	35.4	36.6	37.7	38.9	41.6	
GE 18000	17.1	20.0	25.9	27.9	28.2	29.8	30.9	31.4	33.9	34.8	35.4	36.6	37.7	38.9	41.6	
GE 16000	17.1	20.0	25.9	27.9	28.2	29.8	30.9	31.4	33.9	34.8	35.4	36.6	37.7	38.9	41.6	
GE 14000	17.1	20.0	25.9	27.9	28.2	29.8	30.9	31.4	33.9	34.8	35.4	36.6	37.7	38.9	41.6	
GE 12000	17.2	20.1	26.0	28.0	28.3	29.9	31.0	31.6	34.1	35.0	35.7	36.8	37.9	39.1	41.8	
GE 10000	18.8	21.9	28.1	30.3	30.8	32.4	33.9	34.6	37.6	38.6	39.2	40.4	41.6	42.8	45.4	
GE 9000	20.0	23.1	29.6	31.8	32.2	33.9	35.3	36.0	39.0	40.0	40.7	41.9	43.0	44.2	46.9	
GE 8000	23.6	27.2	33.7	36.1	36.6	38.3	39.9	40.6	43.6	44.6	45.4	46.7	47.8	49.0	51.9	
GE 7000	23.8	27.4	33.9	36.3	36.8	38.6	40.1	40.8	43.8	44.8	45.7	46.9	48.0	49.2	52.1	
GE 6000	24.0	27.7	34.1	36.7	37.1	38.9	40.4	41.2	44.2	45.2	46.1	47.3	48.4	49.7	52.6	
GE 5000	26.3	30.2	37.7	40.2	40.7	42.6	44.3	45.1	48.3	49.3	50.2	51.6	52.7	53.9	57.2	
GE 4500	29.6	33.6	41.3	43.9	44.3	46.3	48.2	49.0	52.3	53.4	54.4	55.8	56.9	58.1	61.4	
GE 4000	33.0	37.4	46.3	49.3	49.8	52.1	54.1	54.9	58.6	59.8	60.9	62.2	63.4	64.7	68.1	
GE 3500	35.2	40.0	49.3	52.3	52.8	55.2	57.3	58.3	62.0	63.2	64.3	65.7	66.9	68.1	71.7	
GE 3000	37.3	42.8	52.7	56.1	56.7	59.6	61.9	62.9	67.3	68.8	70.0	71.4	72.8	74.0	77.6	
GE 2500	38.3	43.9	53.9	57.6	58.1	61.0	63.3	64.4	69.0	70.4	71.7	73.1	74.4	75.7	79.2	
GE 2000	40.4	46.2	57.0	61.0	61.6	64.7	67.1	68.3	73.0	74.4	75.7	77.1	78.4	79.7	83.2	
GE 1800	41.0	46.8	57.6	61.6	62.1	65.2	67.7	68.9	73.6	75.0	76.2	77.7	79.0	80.2	83.8	
GE 1500	43.2	49.2	60.0	64.1	64.7	67.8	70.3	71.6	76.3	77.8	79.0	80.4	81.8	83.0	86.6	
GE 1200	44.1	50.1	60.9	65.2	65.8	69.1	71.8	73.0	77.8	79.2	80.4	81.9	83.2	84.4	88.0	
GE 1000	44.4	50.4	61.2	65.8	66.3	69.7	72.6	73.8	78.6	80.0	81.2	82.7	84.1	85.3	88.9	
GE 900	44.6	50.6	61.3	65.9	66.4	69.8	72.7	74.0	78.8	80.2	81.4	82.9	84.3	85.6	89.1	
GE 800	44.6	50.6	61.3	65.9	66.4	69.8	72.7	74.0	78.8	80.2	81.4	82.9	84.3	85.6	89.1	
GE 700	44.6	50.6	61.3	66.0	66.6	69.9	72.8	74.1	78.9	80.3	81.6	83.0	84.6	85.8	89.3	
GE 600	44.6	50.6	61.3	66.0	66.6	69.9	72.8	74.1	78.9	80.3	81.6	83.0	84.7	85.9	89.4	
GE 500	44.6	50.6	61.3	66.0	66.6	70.0	72.9	74.2	79.0	80.4	81.7	83.1	84.8	86.0	89.6	
GE 400	44.6	50.6	61.3	66.0	66.6	70.0	72.9	74.2	79.0	80.4	81.7	83.1	84.9	86.1	89.7	
GE 300	44.6	50.6	61.3	66.0	66.6	70.0	72.9	74.2	79.0	80.6	81.8	83.2	85.2	87.0	91.6	
GE 200	44.6	50.6	61.3	66.0	66.6	70.0	72.9	74.2	79.1	80.7	81.9	83.6	85.6	88.4	94.7	
GE 100	44.6	50.6	61.3	66.0	66.6	70.0	72.9	74.2	79.2	80.8	82.0	83.7	85.7	88.7	98.0	
GE 0	44.6	50.6	61.3	66.0	66.6	70.0	72.9	74.2	79.2	80.8	82.0	83.8	85.8	90.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: SEP HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 9	GE 5	GE 4	GE 0
NO CEIL	19.9	21.6	25.6	28.2	28.4	29.9	31.8	33.0	35.0	35.3	35.4	35.9	35.9	36.1	36.8	
GE 20000	23.7	25.9	30.6	33.4	33.8	35.3	37.7	39.0	41.1	41.4	41.7	42.1	42.1	42.3	43.0	
GE 18000	23.7	25.9	30.6	33.4	33.8	35.3	37.7	39.0	41.1	41.4	41.7	42.1	42.1	42.3	43.0	
GE 16000	23.7	25.9	30.6	33.4	33.8	35.3	37.7	39.0	41.1	41.4	41.7	42.1	42.1	42.3	43.0	
GE 14000	23.7	25.9	30.6	33.4	33.8	35.3	37.7	39.0	41.1	41.4	41.7	42.1	42.1	42.3	43.0	
GE 12000	24.3	26.7	31.3	34.2	34.6	36.2	38.6	39.9	42.0	42.3	42.6	43.0	43.0	43.2	43.9	
GE 10000	25.9	28.6	33.8	36.7	37.0	38.9	41.3	42.7	45.0	45.3	45.6	46.0	46.0	46.2	46.9	
GE 9000	26.8	29.4	34.8	37.7	38.0	39.9	42.3	43.7	46.0	46.3	46.6	47.0	47.0	47.2	47.9	
GE 8000	28.9	31.8	37.6	40.7	41.0	43.2	45.8	47.1	49.6	49.9	50.1	50.6	50.6	50.8	51.4	
GE 7000	30.4	33.4	39.4	42.9	43.2	45.4	48.0	49.3	51.8	52.1	52.3	52.8	52.8	53.0	53.7	
GE 6000	31.1	34.1	40.1	43.7	44.0	46.3	48.9	50.2	52.7	53.0	53.2	53.7	53.7	53.9	54.6	
GE 5000	32.8	36.1	43.0	46.7	47.0	49.4	52.1	53.7	56.4	56.9	57.2	57.7	57.7	57.9	58.6	
GE 4500	36.2	39.7	46.6	50.2	50.6	53.0	55.7	57.2	60.0	60.4	60.8	61.2	61.2	61.4	62.1	
GE 4000	40.3	44.1	51.8	56.0	56.3	59.0	61.9	63.4	66.3	66.9	67.2	67.7	67.7	67.9	68.6	
GE 3500	42.7	46.7	54.3	58.8	59.1	61.8	64.9	66.4	69.3	69.9	70.2	70.7	70.8	71.0	71.8	
GE 3000	49.6	53.8	62.3	67.2	67.6	70.7	74.3	75.9	79.4	80.0	80.4	80.9	81.0	81.2	82.0	
GE 2500	50.2	54.6	63.2	68.3	68.7	71.8	75.4	77.0	80.8	81.4	81.9	82.3	82.4	82.7	83.7	
GE 2000	52.6	57.4	66.1	71.2	71.6	74.7	78.3	79.9	83.7	84.3	84.8	85.2	85.3	85.6	86.6	
GE 1800	52.8	57.7	66.3	71.4	71.8	75.0	78.7	80.2	84.0	84.7	85.1	85.6	85.7	85.9	86.9	
GE 1500	53.6	58.8	67.7	73.6	73.9	77.2	80.9	82.7	86.6	87.2	87.7	88.1	88.2	88.4	89.4	
GE 1200	53.9	59.1	68.0	73.9	74.2	77.7	81.3	83.1	87.2	87.9	88.3	88.8	88.9	89.1	90.1	
GE 1000	54.0	59.3	68.3	74.2	74.6	78.0	81.9	83.7	87.8	88.4	88.9	89.4	89.7	89.9	90.9	
GE 900	54.0	59.3	68.3	74.2	74.6	78.0	81.9	83.8	87.9	88.6	89.0	89.6	89.8	90.0	91.0	
GE 800	54.0	59.3	68.3	74.2	74.6	78.0	81.9	83.8	87.9	88.6	89.0	89.6	89.8	90.0	91.0	
GE 700	54.0	59.3	68.3	74.2	74.6	78.1	82.1	84.0	88.3	89.0	89.4	90.0	90.2	90.4	91.4	
GE 600	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	88.7	89.3	89.9	90.4	90.7	90.9	91.9	
GE 500	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	89.2	90.1	90.8	91.3	91.8	92.0	93.1	
GE 400	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	89.4	90.3	91.1	91.7	92.1	92.4	93.7	
GE 300	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	89.6	90.4	91.2	91.8	92.4	92.9	94.8	
GE 200	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	89.6	90.4	91.2	91.8	92.6	93.3	96.2	
GE 100	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	89.6	90.4	91.2	91.8	92.8	93.8	98.1	
GE 0	54.0	59.3	68.3	74.2	74.6	78.2	82.2	84.3	89.6	90.4	91.3	92.0	93.0	94.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: SEP HOURS(IST): 1200-1400

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		33.0	34.3	37.8	39.8	39.8	39.8	39.9	39.9	39.9	39.9	40.0	40.0	40.0	40.0	40.0	
GE 20000		38.8	40.3	44.6	46.6	46.6	46.7	46.9	46.9	47.0	47.0	47.1	47.1	47.1	47.1	47.1	
GE 18000		39.6	41.1	45.3	47.3	47.3	47.4	47.7	47.7	47.8	47.8	47.9	47.9	47.9	47.9	47.9	
GE 16000		39.6	41.1	45.3	47.3	47.3	47.4	47.7	47.7	47.8	47.8	47.9	47.9	47.9	47.9	47.9	
GE 14000		39.6	41.1	45.3	47.3	47.3	47.4	47.7	47.7	47.8	47.8	47.9	47.9	47.9	47.9	47.9	
GE 12000		40.6	42.1	46.3	48.3	48.3	48.4	48.7	48.7	48.8	48.8	48.9	48.9	48.9	48.9	48.9	
GE 10000		43.7	45.3	49.7	51.9	51.9	52.0	52.2	52.3	52.4	52.4	52.6	52.6	52.6	52.6	52.6	
GE 9000		44.3	46.0	50.3	52.6	52.6	52.7	52.9	53.0	53.1	53.1	53.2	53.2	53.2	53.2	53.2	
GE 8000		47.3	49.2	53.8	56.2	56.2	56.3	56.6	56.7	56.8	56.8	56.9	56.9	56.9	56.9	56.9	
GE 7000		47.7	49.7	54.3	56.8	56.8	56.9	57.1	57.2	57.3	57.3	57.4	57.4	57.4	57.4	57.4	
GE 6000		48.8	50.8	55.4	57.9	57.9	58.0	58.3	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	
GE 5000		50.9	53.1	58.1	60.8	60.8	60.9	61.2	61.3	61.4	61.4	61.6	61.6	61.6	61.6	61.6	
GE 4500		54.2	56.7	61.7	64.3	64.4	64.6	64.9	65.0	65.1	65.1	65.2	65.2	65.2	65.2	65.2	
GE 4000		58.0	60.7	65.9	68.9	69.1	69.2	69.6	69.7	69.9	69.9	70.0	70.0	70.0	70.0	70.0	
GE 3500		63.4	66.4	71.9	74.9	75.1	75.2	75.6	75.7	75.9	75.9	76.0	76.0	76.0	76.0	76.0	
GE 3000		72.9	76.7	83.0	86.6	86.8	87.0	87.3	87.4	87.7	87.7	87.8	87.8	87.8	87.8	87.8	
GE 2500		74.1	78.1	84.8	88.6	88.9	89.4	89.9	90.0	90.2	90.2	90.3	90.3	90.3	90.3	90.3	
GE 2000		77.2	81.4	88.7	92.8	93.1	93.9	94.3	94.4	94.8	94.8	94.9	94.9	94.9	94.9	94.9	
GE 1800		77.6	81.8	89.0	93.1	93.4	94.2	94.7	94.8	95.1	95.1	95.2	95.2	95.2	95.2	95.2	
GE 1500		78.6	82.9	90.3	94.4	94.8	95.6	96.2	96.4	96.8	96.8	96.9	96.9	96.9	96.9	96.9	
GE 1200		79.0	83.3	90.9	95.0	95.4	96.2	96.9	97.1	97.9	97.9	98.0	98.0	98.0	98.0	98.0	
GE 1000		79.1	83.4	91.3	95.4	95.9	96.7	97.6	97.8	98.6	98.6	98.7	98.7	98.7	98.7	98.7	
GE 900		79.1	83.6	91.4	95.6	96.0	96.8	97.7	97.9	98.8	98.8	98.9	98.9	98.9	98.9	98.9	
GE 800		79.1	83.6	91.4	95.6	96.0	96.8	97.8	98.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	
GE 700		79.1	83.6	91.4	95.6	96.0	96.8	97.9	98.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	
GE 600		79.1	83.6	91.4	95.6	96.0	96.8	97.9	98.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	
GE 500		79.1	83.6	91.4	95.6	96.0	96.9	98.0	98.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7	
GE 400		79.1	83.6	91.4	95.6	96.0	96.9	98.0	98.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7	
GE 300		79.1	83.6	91.4	95.6	96.0	96.9	98.1	98.3	99.7	99.7	99.9	99.9	99.9	99.9	99.9	
GE 200		79.1	83.6	91.4	95.6	96.0	96.9	98.1	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	
GE 100		79.1	83.6	91.4	95.6	96.0	96.9	98.1	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	
GE 0		79.1	83.6	91.4	95.6	96.0	96.9	98.1	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAF/TAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: SEP HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		36.6	36.8	38.4	39.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 20000		46.0	46.4	48.7	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 18000		46.4	46.9	49.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 16000		46.4	46.9	49.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 14000		46.6	47.0	49.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 12000		47.8	48.2	50.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 10000		50.3	50.8	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 9000		51.9	52.3	54.6	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 8000		55.9	56.8	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 7000		56.4	57.3	59.6	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 6000		57.6	58.4	60.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 5000		62.6	63.7	66.3	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 4500		66.7	67.9	70.6	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 4000		72.3	73.7	76.7	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 3500		78.0	79.4	82.8	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 3000		86.8	88.4	92.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2500		87.4	89.2	92.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 2000		89.2	91.1	95.0	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1800		89.4	91.3	95.2	96.2	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1500		90.4	92.3	96.4	97.6	97.6	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1200		90.8	92.7	96.8	98.3	98.3	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000		90.8	92.7	97.0	98.7	98.7	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 900		90.8	92.7	97.0	98.7	98.7	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 800		90.8	92.7	97.0	98.7	98.7	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700		90.8	92.7	97.0	98.7	98.7	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 01		90.8	92.7	97.0	99.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: SEP HOURS(LST): 1800-2000

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		42.0	43.2	44.3	44.6	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 20000		50.6	52.4	54.1	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 18000		50.9	52.8	54.4	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 16000		50.9	52.8	54.4	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 14000		51.0	52.9	54.6	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 12000		52.4	54.3	56.0	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 10000		55.2	57.4	59.2	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 9000		57.0	59.4	61.2	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 8000		62.6	65.2	67.1	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 7000		64.4	67.1	69.0	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 6000		65.9	68.7	70.6	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 5000		69.0	72.0	74.0	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 4500		72.7	75.6	77.8	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 4000		79.1	82.3	84.6	85.7	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3500		81.7	85.1	87.6	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 3000		87.3	91.0	94.1	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 2500		88.2	91.9	95.0	96.2	96.2	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 2000		89.1	92.8	95.9	97.1	97.1	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1800		89.1	92.6	95.9	97.1	97.1	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1600		89.4	93.1	96.3	97.8	97.8	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1400		89.4	93.1	96.7	98.2	98.2	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1000		89.4	93.3	97.0	98.7	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900		89.4	93.3	97.0	98.7	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800		89.4	93.3	97.0	98.7	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 700		89.4	93.3	97.0	98.7	98.7	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600		89.4	93.3	97.0	99.0	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500		89.4	93.3	97.1	99.1	99.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		89.4	93.3	97.1	99.1	99.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		89.4	93.3	97.1	99.1	99.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		89.4	93.3	97.1	99.1	99.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		89.4	93.3	97.1	99.1	99.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		89.4	93.3	97.1	99.1	99.1	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
 MONTH: SEP HOURS(IST): 2100-2300

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		46.0	49.6	53.0	53.8	53.9	54.3	54.4	54.4	54.9	54.9	55.0	55.0	55.1	55.1	55.1
GE 20000		50.0	54.4	58.4	59.6	59.7	60.1	60.2	60.2	60.7	60.7	60.8	60.9	61.0	61.0	61.0
GE 18000		50.4	54.9	58.9	60.0	60.1	60.6	60.7	60.7	61.1	61.1	61.2	61.3	61.4	61.4	61.4
GE 16000		50.4	54.9	58.9	60.0	60.1	60.6	60.7	60.7	61.1	61.1	61.2	61.3	61.4	61.4	61.4
GE 14000		50.6	55.0	59.0	60.1	60.2	60.7	60.8	60.8	61.2	61.2	61.3	61.4	61.6	61.6	61.6
GE 12000		51.1	55.6	59.6	60.7	60.8	61.2	61.3	61.3	61.8	61.8	61.9	62.0	62.1	62.1	62.1
GE 10000		53.2	57.7	61.8	62.9	63.0	63.4	63.6	63.6	64.0	64.0	64.1	64.2	64.3	64.3	64.3
GE 9000		54.2	58.9	63.1	64.2	64.3	64.8	64.9	64.9	65.3	65.3	65.4	65.6	65.7	65.7	65.7
GE 8000		57.2	62.4	67.1	68.4	68.6	69.0	69.6	69.6	70.0	70.0	70.1	70.2	70.3	70.3	70.3
GE 7000		58.9	64.3	69.0	70.3	70.4	70.9	71.4	71.4	71.9	71.9	72.0	72.1	72.2	72.2	72.2
GE 6000		59.8	65.2	69.9	71.2	71.3	71.9	72.3	72.3	72.8	72.8	72.9	73.0	73.1	73.1	73.1
GE 5000		62.6	68.3	73.4	75.0	75.1	75.8	76.3	76.3	76.8	76.8	76.9	77.0	77.1	77.1	77.1
GE 4500		65.9	71.7	76.8	78.6	78.7	79.3	79.9	79.9	80.3	80.3	80.4	80.6	80.7	80.7	80.7
GE 4000		71.0	76.9	82.3	84.1	84.3	85.0	85.6	85.6	86.0	86.0	86.1	86.2	86.3	86.3	86.3
GE 3500		72.9	79.2	84.7	86.4	86.7	87.3	87.9	87.9	88.3	88.3	88.4	88.6	88.7	88.7	88.7
GE 3000		77.6	84.1	90.2	92.2	92.4	93.1	94.0	94.0	94.4	94.4	94.6	94.7	94.8	94.8	94.8
GE 2500		78.6	85.1	91.3	93.3	93.6	94.2	95.1	95.1	95.6	95.6	95.7	95.8	95.9	95.9	95.9
GE 2000		79.2	85.8	92.0	94.0	94.2	94.9	95.8	95.8	96.2	96.2	96.3	96.4	96.6	96.6	96.6
GE 1800		79.3	85.9	92.1	94.1	94.3	95.0	95.9	95.9	96.3	96.3	96.4	96.6	96.7	96.7	96.7
GE 1500		79.6	86.1	92.3	94.3	94.6	95.4	96.3	96.3	96.8	96.8	96.9	97.0	97.1	97.1	97.1
GE 1200		80.1	86.8	93.1	95.4	95.7	96.6	97.4	97.4	97.9	97.9	98.0	98.1	98.2	98.2	98.2
GE 1000		80.3	87.1	93.4	95.8	96.0	96.9	98.1	98.1	98.6	98.6	98.7	98.8	98.9	98.9	98.9
GE 900		80.3	87.1	93.7	96.0	96.2	97.1	98.3	98.3	98.8	98.8	98.9	99.0	99.1	99.1	99.1
GE 800		80.4	87.2	93.8	96.1	96.3	97.2	98.4	98.4	98.9	98.9	99.0	99.1	99.2	99.2	99.2
GE 700		80.4	87.2	93.8	96.1	96.3	97.2	98.4	98.4	98.9	98.9	99.0	99.1	99.2	99.2	99.2
GE 600		80.4	87.2	93.8	96.1	96.3	97.6	98.8	98.8	99.2	99.2	99.3	99.4	99.6	99.6	99.6
GE 500		80.6	87.3	94.1	96.4	96.7	97.9	99.1	99.1	99.6	99.6	99.7	99.8	99.9	99.9	99.9
GE 400		80.6	87.3	94.1	96.4	96.7	97.9	99.1	99.1	99.6	99.6	99.7	99.8	99.9	99.9	99.9
GE 300		80.6	87.3	94.1	96.4	96.7	97.9	99.1	99.1	99.6	99.6	99.7	99.8	99.9	99.9	99.9
GE 200		80.6	87.3	94.1	96.4	96.7	97.9	99.1	99.1	99.6	99.6	99.7	99.8	99.9	99.9	99.9
GE 100		80.6	87.3	94.1	96.4	96.7	97.9	99.1	99.1	99.6	99.6	99.7	99.8	99.9	99.9	99.9
GE 00		80.6	87.3	94.1	96.4	96.7	97.9	99.1	99.1	99.6	99.6	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 940

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: SEP HOURS(LST): ALL

CEILING IN FEET	ST 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 37	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL		31.9	34.3	37.7	39.0	39.1	40.0	40.7	41.0	42.3	42.5	42.8	43.1	43.4	43.9	44.6	
GE 20000		36.7	39.6	43.4	45.0	45.2	46.1	46.9	47.3	48.5	48.8	49.1	49.4	49.8	50.3	51.2	
GE 18000		37.0	39.9	43.7	45.3	45.4	46.4	47.2	47.5	48.8	49.1	49.3	49.7	50.1	50.5	51.4	
GE 16000		37.0	39.9	43.7	45.3	45.4	46.4	47.2	47.5	48.8	49.1	49.3	49.7	50.1	50.5	51.4	
GE 14000		37.0	40.0	43.8	45.3	45.5	46.5	47.2	47.6	48.9	49.2	49.4	49.8	50.1	50.6	51.5	
GE 12000		37.7	40.7	44.5	46.0	46.2	47.2	47.9	48.3	49.6	49.9	50.1	50.5	50.8	51.3	52.2	
GE 10000		40.0	43.0	47.1	48.7	48.9	49.9	50.7	51.1	52.5	52.9	53.1	53.5	53.9	54.3	55.2	
GE 9000		41.1	44.3	48.4	50.0	50.2	51.2	52.0	52.4	53.8	54.2	54.4	54.8	55.2	55.6	56.5	
GE 8000		44.4	47.9	52.3	54.0	54.2	55.3	56.2	56.6	58.0	58.4	58.6	59.0	59.4	59.9	60.9	
GE 7000		45.5	49.1	53.4	55.3	55.4	56.6	57.4	57.8	59.3	59.6	59.9	60.3	60.7	61.2	62.1	
GE 6000		46.3	49.8	54.2	56.1	56.3	57.4	58.3	58.7	60.1	60.5	60.7	61.1	61.5	62.0	63.0	
GE 5000		49.1	52.9	57.8	59.8	60.0	61.2	62.2	62.6	64.1	64.5	64.7	65.2	65.6	66.1	67.1	
GE 4500		52.5	56.5	61.4	63.5	63.7	65.0	65.9	66.4	68.0	68.3	68.6	69.0	69.4	69.9	71.0	
GE 4000		57.0	61.2	66.8	69.1	69.3	70.7	71.7	72.2	73.8	74.2	74.5	74.9	75.3	75.8	76.9	
GE 3500		60.1	64.6	70.5	72.9	73.2	74.6	75.6	76.1	77.8	78.1	78.4	78.9	79.3	79.8	80.9	
GE 3000		65.7	70.6	77.3	80.0	80.3	81.9	83.1	83.6	85.5	85.9	86.2	86.7	87.1	87.6	88.7	
GE 2500		66.6	71.6	78.4	81.2	81.6	83.3	84.5	85.0	86.9	87.4	87.7	88.1	88.6	89.1	90.2	
GE 2000		68.3	73.4	80.4	83.3	83.7	85.5	86.8	87.3	89.3	89.7	90.0	90.5	90.9	91.4	92.5	
GE 1800		68.5	73.7	80.7	83.6	83.9	85.8	87.0	87.6	89.6	90.0	90.3	90.8	91.2	91.7	92.8	
GE 1500		69.4	74.7	81.6	84.9	85.2	87.2	88.5	89.1	91.1	91.5	91.8	92.3	92.7	93.2	94.3	
GE 1200		69.9	75.1	82.4	85.7	86.0	88.0	89.3	89.9	92.0	92.4	92.8	93.2	93.7	94.2	95.3	
GE 1000		70.0	75.3	82.8	86.2	86.5	88.5	90.0	90.6	92.7	93.1	93.4	93.9	94.4	94.9	96.0	
GE 900		70.0	75.3	82.9	86.2	86.6	88.5	90.0	90.7	92.8	93.2	93.5	94.0	94.5	95.0	96.1	
GE 800		70.0	75.4	83.0	86.3	86.6	88.6	90.1	90.7	92.9	93.3	93.6	94.1	94.6	95.1	96.2	
GE 700		70.0	75.4	83.0	86.3	86.7	88.7	90.2	90.8	93.0	93.4	93.7	94.2	94.7	95.2	96.3	
GE 600		70.0	75.4	83.0	86.4	86.7	88.8	90.3	91.0	93.1	93.6	93.9	94.4	94.9	95.4	96.5	
GE 500		70.1	75.4	83.0	86.5	86.8	88.9	90.4	91.1	93.3	93.8	94.2	94.7	95.2	95.7	96.8	
GE 400		70.1	75.4	83.1	86.5	86.8	88.9	90.5	91.1	93.4	93.9	94.2	94.7	95.3	95.8	96.9	
GE 300		70.1	75.4	83.1	86.5	86.8	88.9	90.5	91.2	93.5	93.9	94.3	94.8	95.4	96.1	97.4	
GE 200		70.1	75.4	83.1	86.5	86.8	88.9	90.5	91.2	93.5	94.0	94.4	94.9	95.6	96.4	98.2	
GE 100		70.1	75.4	83.1	86.5	86.8	88.9	90.5	91.2	93.5	94.0	94.4	94.9	95.6	96.5	99.2	
GE 0		70.1	75.4	83.1	86.5	86.8	88.9	90.5	91.2	93.5	94.0	94.4	95.0	95.7	97.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7200



GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: OCT HOURS(IST): 0700-0900

CEILING IN FEET	ST 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 80	GE 60	GE 48	LE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL		11.5	13.1	15.8	17.6	17.7	18.6	19.7	20.3	23.7	23.4	24.3	25.9	27.3	29.8	31.5	
GE 2000		13.1	14.7	18.0	19.8	19.9	21.1	22.4	23.3	26.8	26.9	27.4	29.0	30.5	33.1	34.8	
GE 1800		13.1	14.7	18.0	19.8	19.9	21.1	22.4	23.3	26.8	26.9	27.4	29.0	30.5	33.1	34.8	
GE 1600		13.2	14.6	18.1	19.9	20.0	21.2	22.5	23.4	26.9	27.0	27.5	29.1	30.6	33.2	34.9	
GE 1400		13.2	14.6	18.1	19.9	20.0	21.2	22.5	23.4	26.9	27.0	27.5	29.1	30.6	33.2	34.9	
GE 1200		13.2	14.6	18.1	19.9	20.0	21.2	22.5	23.4	26.9	27.0	27.5	29.1	30.6	33.2	34.9	
GE 1000		14.3	15.9	19.1	21.0	21.1	22.3	23.5	24.5	28.0	29.1	29.6	30.2	31.7	34.3	36.0	
GE 900		14.9	16.7	20.1	22.0	22.2	23.4	24.7	25.7	29.1	29.2	29.8	31.5	33.0	35.6	37.3	
GE 800		16.2	18.1	21.8	23.8	23.9	25.2	26.6	27.5	31.1	31.2	31.7	33.4	34.9	37.5	39.2	
GE 700		16.2	18.1	21.8	23.8	23.9	25.2	26.6	27.5	31.1	31.2	31.7	33.4	34.9	37.5	39.2	
GE 600		16.8	18.7	22.5	24.4	24.5	25.8	27.3	28.3	31.9	32.0	32.6	34.3	35.8	38.4	40.1	
GE 500		18.5	20.8	24.7	27.0	27.2	28.6	30.3	31.4	35.8	35.7	36.3	38.1	39.8	42.4	44.1	
GE 450		23.0	26.1	30.9	33.3	33.5	34.9	36.7	37.7	41.9	42.0	42.7	44.4	46.1	48.7	50.4	
GE 400		29.0	32.6	37.5	40.2	40.4	41.9	43.8	44.9	49.5	49.9	50.6	52.4	54.1	56.7	58.4	
GE 350		31.9	35.7	40.8	43.8	44.0	45.5	47.4	48.6	53.2	53.4	54.5	56.2	58.0	60.5	62.3	
GE 300		34.9	39.1	44.4	47.4	47.6	49.6	52.0	53.2	58.0	58.7	59.8	61.5	63.2	65.9	67.6	
GE 250		36.2	40.4	46.5	49.5	49.7	51.6	54.1	55.3	60.1	60.9	61.9	63.7	65.4	68.1	69.8	
GE 200		40.0	44.2	51.0	54.0	54.4	56.3	58.4	60.1	64.9	65.7	66.6	68.5	70.3	73.0	74.7	
GE 180		40.1	44.3	51.1	54.3	54.8	56.8	59.5	60.8	65.6	66.3	67.4	69.1	71.0	73.7	75.4	
GE 150		43.2	47.4	55.4	59.6	59.1	61.3	64.4	65.7	70.6	71.4	72.5	74.2	76.1	78.8	80.5	
GE 120		43.3	47.5	56.1	59.4	60.0	62.4	66.0	67.3	72.7	73.4	74.5	76.2	78.2	80.9	82.6	
GE 100		44.0	48.2	57.0	60.2	60.9	63.7	67.4	68.7	74.6	75.4	76.5	78.2	80.1	82.8	84.5	
GE 90		44.3	48.5	58.0	61.4	62.0	64.9	68.4	70.3	76.3	76.3	77.1	78.2	79.9	81.8	84.5	
GE 80		44.9	49.1	59.0	62.5	63.1	66.2	70.4	71.9	78.1	78.1	79.9	81.6	83.5	86.2	88.0	
GE 70		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	79.7	80.8	82.5	84.4	87.1	88.8	
GE 60		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	80.4	81.4	82.5	84.2	86.1	88.8	
GE 50		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	81.6	82.7	84.4	86.5	89.1	90.9	
GE 40		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	81.6	82.7	84.4	86.5	89.1	90.9	
GE 30		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	81.6	82.7	84.4	86.5	89.1	90.9	
GE 20		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	81.6	82.7	84.4	86.5	89.1	90.9	
GE 10		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	81.6	82.7	84.4	86.5	89.1	90.9	
GE 0		45.4	49.6	59.5	63.0	63.7	67.0	71.3	72.8	78.9	81.6	82.7	84.4	86.5	89.1	90.9	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
MONTH: OCT HOURS(EST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 45	GE 40	GE 37	GE 24	GE 20	GE 18	GE 17	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		8.2	9.1	10.6	12.2	12.4	12.6	13.1	13.2	15.1	15.4	15.4	15.9	16.9	19.8	21.8
GE 20000		9.5	10.5	12.3	13.8	14.0	14.7	15.3	15.6	17.4	17.7	17.7	18.3	19.2	22.3	24.4
GE 18000		9.5	10.5	12.3	13.8	14.0	14.7	15.3	15.6	17.4	17.7	17.7	18.3	19.2	22.3	24.4
GE 16000		9.5	10.5	12.4	13.9	14.1	14.8	15.4	15.7	17.5	17.8	17.8	18.4	19.4	22.4	24.5
GE 14000		9.6	10.6	12.5	14.0	14.2	14.9	15.5	15.8	17.6	18.0	18.0	18.5	19.5	22.6	24.7
GE 12000		9.6	10.6	12.5	14.0	14.2	14.9	15.5	15.8	17.6	18.0	18.0	18.5	19.5	22.6	24.8
GE 10000		10.3	11.5	13.4	14.9	15.2	15.9	16.5	16.8	18.6	18.9	19.0	19.6	20.5	23.7	25.9
GE 9000		10.6	11.8	14.0	15.5	15.7	16.4	17.5	17.8	19.8	20.1	20.2	20.8	21.7	24.8	27.1
GE 8000		11.2	12.4	14.5	16.1	16.3	17.6	18.6	18.9	20.9	21.2	21.3	21.8	22.8	25.9	28.2
GE 7000		11.5	12.7	14.8	16.5	16.7	18.0	18.9	19.2	21.2	21.5	21.6	22.2	23.1	26.2	28.5
GE 6000		11.7	12.9	15.1	16.7	16.9	18.2	19.1	19.5	21.6	21.9	22.0	22.6	23.7	26.9	29.1
GE 5000		13.0	14.5	17.1	19.0	19.5	20.9	22.2	22.6	25.3	25.8	25.9	26.5	27.6	30.9	33.1
GE 4500		17.2	19.1	22.4	24.5	25.1	26.5	27.7	28.3	31.0	31.5	31.6	32.2	33.3	36.6	38.8
GE 4000		22.3	24.3	28.2	30.8	31.3	32.7	34.1	34.6	37.3	37.8	38.0	38.5	39.7	43.0	45.3
GE 3500		25.5	28.1	32.6	35.6	36.1	37.6	39.0	39.6	42.3	42.8	42.9	43.4	44.6	48.0	50.2
GE 3000		29.8	32.6	37.8	41.0	41.5	43.0	44.8	45.7	48.9	49.8	50.0	50.9	52.3	55.6	58.7
GE 2500		31.7	34.5	40.5	43.7	44.2	45.8	47.7	48.6	51.8	52.7	52.9	53.8	55.2	58.5	60.9
GE 2000		36.0	38.9	45.3	48.5	49.0	50.8	52.9	53.9	57.4	58.3	58.5	59.4	60.9	64.2	66.6
GE 1800		36.2	39.1	45.6	49.1	49.7	51.4	53.5	54.5	58.1	58.9	59.1	60.0	61.5	64.8	67.2
GE 1600		40.5	43.9	51.6	55.4	55.9	58.1	60.5	61.5	65.4	66.5	66.7	67.5	69.0	72.4	74.7
GE 1400		41.5	44.8	53.1	57.1	57.6	59.9	62.6	63.5	67.6	68.7	68.9	69.8	71.3	74.6	77.0
GE 1200		41.8	45.2	54.1	58.2	58.7	61.2	63.9	64.8	69.6	70.6	70.9	71.7	73.2	76.6	78.9
GE 1000		42.5	45.8	54.8	59.4	60.1	62.7	65.9	66.9	71.6	72.7	72.9	73.8	75.3	78.6	81.0
GE 900		42.6	46.1	55.5	60.0	60.8	63.4	66.7	67.6	72.4	73.5	74.1	75.1	76.6	79.9	82.3
GE 800		42.8	46.1	55.7	60.3	61.1	64.1	68.3	68.9	74.2	75.3	75.9	76.9	78.4	81.7	84.1
GE 700		42.8	46.1	55.9	60.6	61.5	64.9	69.2	70.3	75.8	76.9	77.6	78.7	80.2	83.5	85.9
GE 600		42.8	46.1	56.1	60.9	61.7	65.2	69.5	70.6	76.7	77.8	78.7	79.8	81.4	84.7	87.1
GE 500		42.8	46.1	56.1	60.9	61.7	65.4	70.0	71.3	77.8	79.5	80.4	81.5	83.1	86.6	89.1
GE 400		42.8	46.1	56.1	60.9	61.7	65.7	70.4	71.9	78.8	80.9	82.0	83.2	84.9	88.6	92.3
GE 300		42.8	46.1	56.1	60.9	61.7	65.7	70.4	71.9	79.2	81.3	82.7	84.0	86.0	90.3	95.5
GE 200		42.8	46.1	56.1	60.9	61.7	65.7	73.4	71.9	79.2	81.3	82.7	84.0	86.2	91.5	99.6
GE 0		42.9	46.1	56.1	60.9	61.7	65.7	73.4	71.9	79.2	81.3	82.7	84.0	86.2	91.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 730

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 1J6147 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: OCT HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 50	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		6.0	6.9	9.0	10.3	10.4	10.9	11.0	11.1	11.7	11.9	11.9	11.9	12.0	13.7	14.6
GE 20000	8.7	9.7	12.4	14.0	14.2	14.7	15.3	15.5	16.7	17.0	17.1	17.2	17.5	19.4	20.6	
GE 18000	8.7	9.7	12.4	14.0	14.2	14.7	15.3	15.5	16.7	17.0	17.1	17.2	17.5	19.4	20.6	
GE 16000	8.7	9.7	12.4	14.0	14.2	14.7	15.3	15.5	16.7	17.0	17.1	17.2	17.5	19.4	20.6	
GE 14000	8.7	9.7	12.4	14.0	14.2	14.7	15.3	15.5	16.7	17.0	17.1	17.2	17.5	19.4	20.6	
GE 12000	8.9	9.9	12.6	14.4	14.6	15.2	15.7	15.9	17.1	17.4	17.5	17.6	18.0	20.0	21.3	
GE 10000	9.9	10.9	13.7	15.6	15.8	16.5	17.0	17.2	18.5	18.8	18.9	19.0	19.5	21.5	22.8	
GE 9000	10.4	11.4	14.4	16.3	16.6	17.4	18.0	18.2	19.6	19.9	20.0	20.1	20.5	22.6	23.9	
GE 8000	11.3	12.8	16.3	18.4	18.7	19.8	20.3	20.5	21.9	22.3	22.4	22.5	22.9	24.9	26.2	
GE 7000	11.6	13.2	16.8	19.0	19.4	20.4	21.0	21.2	22.6	22.9	23.0	23.1	23.5	25.6	26.9	
GE 6000	12.2	13.9	17.4	19.7	20.0	21.1	21.6	21.8	23.2	23.5	23.7	23.8	24.2	26.2	27.5	
GE 5000	12.8	14.6	18.8	21.2	21.6	22.7	23.2	23.4	25.6	25.9	26.0	26.1	26.7	28.8	30.1	
GE 4000	15.7	18.1	23.4	26.0	26.6	27.6	28.3	28.5	30.9	31.2	31.3	31.5	32.0	34.2	35.5	
GE 3000	18.2	21.3	27.3	30.2	30.9	32.0	32.8	33.0	35.4	35.7	35.8	36.0	36.6	38.7	40.0	
GE 2500	19.6	23.7	30.1	33.2	33.9	35.3	36.0	36.3	38.7	39.0	39.1	39.4	39.9	42.0	43.3	
GE 2000	23.9	28.4	35.5	39.1	39.8	41.2	42.4	43.0	46.2	46.7	46.8	47.1	47.6	49.8	51.1	
GE 1500	26.9	31.7	39.6	43.3	44.0	45.5	46.7	47.3	50.6	51.1	51.2	51.5	52.0	54.2	55.5	
GE 1000	29.7	34.9	43.4	47.8	48.5	50.3	51.7	52.6	56.1	56.6	56.7	57.0	57.5	59.7	61.0	
GE 800	30.1	35.6	44.4	48.8	49.5	51.3	52.7	53.5	57.1	57.5	57.6	58.0	58.5	60.6	61.9	
GE 700	33.8	39.9	50.0	55.1	55.8	58.1	59.6	60.6	64.5	64.9	65.1	65.4	65.9	68.1	69.4	
GE 600	36.6	43.0	53.5	59.2	60.2	62.8	64.3	65.4	69.5	70.0	70.1	70.4	71.0	73.1	74.4	
GE 500	37.3	44.2	55.9	62.4	63.3	66.3	68.1	69.1	73.4	74.0	74.1	74.4	74.9	77.1	78.4	
GE 400	37.6	44.5	56.9	64.2	65.3	68.4	70.4	71.5	75.8	76.3	76.5	76.8	77.3	79.5	80.8	
GE 300	37.8	44.7	57.2	64.6	65.7	68.8	70.9	71.9	76.2	76.8	76.9	77.2	77.7	79.9	81.2	
GE 200	38.2	45.1	57.5	65.4	66.5	69.7	72.3	73.3	78.3	78.8	79.1	79.5	80.0	82.2	83.4	
GE 100	38.2	45.1	58.0	65.9	67.1	70.6	73.4	74.5	79.8	80.3	80.6	81.1	81.6	83.8	85.1	
GE 500	38.2	45.1	58.2	66.1	67.3	71.3	74.3	75.5	81.5	82.2	82.7	83.0	83.5	85.9	87.2	
GE 400	38.2	45.1	58.2	66.1	67.3	71.4	74.4	75.8	83.1	83.9	84.7	85.2	85.7	88.2	89.7	
GE 300	38.2	45.1	58.2	66.1	67.3	71.4	74.7	76.3	84.0	84.9	85.9	86.6	87.5	90.0	92.7	
GE 200	38.2	45.1	58.2	66.1	67.3	71.4	74.7	76.5	84.7	85.7	86.8	87.8	89.2	92.5	96.6	
GE 100	38.2	45.1	58.2	66.1	67.3	71.4	74.7	76.5	84.8	85.8	86.9	88.0	89.5	93.1	99.6	
GE 01	38.2	45.1	58.2	66.1	67.3	71.4	74.8	76.6	84.9	85.9	87.0	88.1	89.7	93.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: OCT HOURS(IST): 1200-1400

CEILING IN FEET	ST 160	VISIBILITY IN HUNDREDS OF METERS															
		GE 90	GE 60	GF 60	GE 46	GF 40	GE 32	GF 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GF 0	
NO CEIL		14.2	15.1	17.1	18.3	18.4	19.9	19.1	19.1	19.6	19.6	19.8	19.8	19.8	19.8	19.8	
GE 2000		18.6	19.7	22.3	23.7	23.8	24.4	24.7	24.9	25.6	25.6	25.8	25.8	25.8	25.8	25.8	
GE 1800		18.6	19.7	22.3	23.7	23.8	24.4	24.7	24.9	25.6	25.6	25.8	25.8	25.8	25.8	25.8	
GE 1600		18.7	19.6	22.4	23.8	23.9	24.5	24.8	25.1	25.7	25.7	25.9	25.9	25.9	25.9	25.9	
GE 1400		18.7	19.8	22.4	23.8	23.9	24.5	24.8	25.1	25.7	25.7	25.9	25.9	25.9	25.9	25.9	
GE 1200		20.1	21.2	23.9	25.3	25.4	26.0	26.3	26.6	27.2	27.2	27.4	27.4	27.4	27.4	27.4	
GE 1000		20.9	21.9	24.9	26.5	26.6	27.2	27.6	27.8	28.5	28.5	28.7	28.7	28.7	28.7	28.7	
GE 900		21.5	22.6	25.9	27.4	27.5	28.2	28.6	28.8	29.5	29.5	29.7	29.7	29.7	29.7	29.7	
GE 800		23.3	24.5	28.2	29.8	29.9	30.5	31.0	31.2	31.8	31.8	32.0	32.0	32.0	32.0	32.0	
GE 700		23.4	24.6	28.3	30.0	30.3	31.0	31.4	31.6	32.3	32.3	32.5	32.5	32.5	32.5	32.5	
GE 600		23.7	24.8	28.5	30.2	30.5	31.2	31.6	31.8	32.5	32.5	32.7	32.7	32.7	32.7	32.7	
GE 500		25.2	26.5	30.4	32.3	32.6	33.3	33.8	34.0	34.7	34.7	34.9	34.9	34.9	34.9	34.9	
GF 450		29.0	30.5	35.2	37.2	37.5	38.3	38.7	38.9	39.9	39.9	40.1	40.1	40.1	40.1	40.1	
GE 400		32.2	33.7	38.6	40.8	41.1	41.9	42.4	42.7	43.7	43.7	43.9	43.9	44.0	44.0	44.0	
GE 350		35.3	37.4	42.7	44.8	45.4	46.3	47.0	47.3	48.3	48.3	48.5	48.5	48.6	48.6	48.6	
GF 300		42.2	44.7	50.9	53.8	54.6	55.9	56.7	57.4	58.5	58.5	58.7	58.7	58.8	58.8	58.8	
GE 250		46.7	49.5	55.9	58.9	59.8	61.3	62.2	62.9	64.0	64.0	64.2	64.2	64.3	64.3	64.3	
GE 200		49.4	52.7	60.2	63.5	64.4	66.1	67.0	67.7	68.8	68.8	69.0	69.0	69.1	69.1	69.1	
GE 180		51.1	54.4	62.0	65.6	66.5	68.2	69.0	69.8	70.9	70.9	71.1	71.1	71.2	71.2	71.2	
GE 150		55.4	59.0	67.2	71.9	72.8	74.5	75.4	76.1	77.3	77.3	77.5	77.5	77.6	77.6	77.6	
GE 120		57.4	61.3	70.4	76.0	76.9	78.6	79.5	80.3	81.6	81.6	81.8	81.8	81.9	81.9	81.9	
GE 100		59.4	64.0	73.9	80.5	81.5	83.4	84.3	85.2	86.6	86.6	86.8	86.8	86.9	87.0	87.0	
GE 900		59.6	64.4	74.6	81.4	82.4	84.4	85.4	86.3	87.7	87.7	88.0	88.0	88.1	88.2	88.2	
GE 800		59.9	64.9	75.4	82.7	83.7	85.9	87.0	88.1	89.7	89.7	89.9	89.9	90.0	90.1	90.1	
GE 700		60.0	65.1	75.5	83.3	84.3	86.7	87.8	89.0	90.6	90.6	90.9	90.9	91.0	91.1	91.1	
GF 600		60.0	65.1	75.9	84.3	85.3	87.8	89.2	90.8	93.1	93.1	93.3	93.3	93.4	93.5	93.5	
GE 500		60.0	65.1	76.0	84.4	85.6	88.4	90.0	91.7	94.8	94.8	95.2	95.3	95.4	95.5	95.5	
GE 400		60.0	65.1	76.2	84.7	85.9	88.9	90.6	92.5	96.1	96.1	96.6	96.7	96.8	97.0	97.0	
GE 300		60.0	65.1	76.2	84.7	85.9	88.9	90.6	92.7	96.9	97.0	97.4	97.5	98.1	98.3	98.5	
GF 200		60.0	65.1	76.2	84.7	85.9	88.9	90.6	92.7	97.2	97.2	97.6	98.1	98.3	98.9	99.2	
GE 100		60.0	65.1	76.2	84.7	85.9	88.9	90.6	92.7	97.2	97.2	97.6	98.1	98.5	99.2	99.6	
GE 0		60.0	65.1	76.2	84.7	85.9	88.9	90.6	92.7	97.2	97.2	97.6	98.1	98.5	99.2	99.6	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: OCT HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		21.0	23.5	26.2	26.7	26.7	26.8	26.8	26.8	27.0	27.0	27.0	27.0	27.0	27.0	27.0
GE 2000	27.2	29.0	32.4	32.9	32.9	33.1	33.2	33.2	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
GE 1800	27.3	29.1	32.5	33.0	33.0	33.2	33.3	33.3	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 1600	27.3	29.1	32.5	33.0	33.0	33.2	33.3	33.3	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 1400	27.3	29.1	32.5	33.0	33.0	33.2	33.3	33.3	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 1200	28.0	29.8	33.1	33.7	33.7	33.9	34.0	34.0	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
GE 1000	29.5	31.3	34.8	35.4	35.4	35.6	35.7	35.7	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
GE 900	30.5	32.4	36.2	36.8	36.8	37.0	37.1	37.1	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 800	33.1	34.9	39.0	39.6	39.6	39.8	39.9	39.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
GE 700	34.2	36.0	40.1	40.6	40.6	41.0	41.1	41.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 600	34.3	36.1	40.2	40.8	40.9	41.1	41.2	41.2	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 500	37.6	39.6	44.0	44.5	44.6	44.8	44.9	44.9	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE 450	41.5	43.9	48.6	49.1	49.2	49.5	49.6	49.6	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 400	46.6	48.9	54.0	54.8	54.9	55.2	55.3	55.3	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 350	49.6	52.7	58.1	59.6	59.7	60.0	60.1	60.1	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 300	60.4	64.0	70.4	72.6	72.7	73.0	73.1	73.2	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 250	64.4	68.2	74.9	77.1	77.2	77.5	77.6	77.7	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 200	67.0	70.9	77.6	80.2	80.3	80.6	81.0	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 180	68.0	71.9	79.0	81.7	81.8	82.2	82.5	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 150	71.1	75.7	83.8	86.6	86.7	87.1	87.4	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 120	72.2	77.0	86.6	90.4	90.5	91.3	91.6	91.9	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 100	72.7	77.8	87.8	92.4	92.6	93.3	93.7	94.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 90	72.8	78.0	88.0	92.5	92.7	93.4	94.0	94.4	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 80	72.9	78.2	88.3	93.0	93.2	94.0	94.6	95.1	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 70	73.2	78.5	88.6	94.3	94.7	95.7	96.3	96.8	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 60	73.2	78.5	88.7	94.4	94.8	95.8	96.8	97.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 50	73.2	78.5	88.7	94.4	94.8	96.1	97.1	97.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 40	73.2	78.5	88.7	94.4	94.8	96.1	97.1	97.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 30	73.2	78.5	88.7	94.4	94.8	96.1	97.1	98.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 20	73.2	78.5	88.7	94.4	94.8	96.1	97.1	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 10	73.2	78.5	88.7	94.4	94.8	96.1	97.1	98.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	73.2	78.5	88.7	94.4	94.8	96.1	97.1	98.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: OCT HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE J
NO CEIL		23.9	26.6	28.6	29.4	29.5	29.9	30.0	30.0	30.1	30.1	30.1	30.1	30.2	30.3	30.3
GE 20000	30.6	34.1	36.5	37.1	37.2	38.2	38.3	38.3	38.7	39.8	38.8	38.8	38.9	39.0	39.0	
GE 18000	31.1	34.5	36.9	37.5	37.6	38.6	38.7	38.7	39.1	39.2	39.2	39.2	39.4	39.5	39.5	
GE 16000	31.1	34.5	36.9	37.5	37.6	38.6	38.7	38.7	39.1	39.2	39.2	39.2	39.4	39.5	39.5	
GE 14000	31.1	34.5	36.9	37.5	37.6	38.6	38.7	38.7	39.1	39.2	39.2	39.2	39.4	39.5	39.5	
GE 12000	31.9	35.4	37.7	38.4	38.5	39.5	39.6	39.6	40.0	40.1	40.1	40.1	40.2	40.3	40.3	
GE 10000	34.0	37.4	39.9	40.5	40.6	41.7	41.8	41.8	42.3	42.4	42.4	42.4	42.5	42.6	42.6	
GE 9000	34.4	38.0	40.9	41.5	41.6	42.7	42.8	42.8	43.2	43.3	43.3	43.3	43.4	43.5	43.5	
GE 8000	37.3	40.9	44.3	44.9	45.1	46.1	46.2	46.2	46.7	46.8	46.8	46.8	46.9	47.0	47.0	
GE 7000	38.2	41.7	45.2	45.8	45.9	47.0	47.1	47.1	47.5	47.6	47.6	47.6	47.7	47.8	47.8	
GE 6000	39.1	42.8	46.2	47.1	47.2	48.3	48.4	48.4	48.8	48.9	48.9	48.9	49.0	49.1	49.1	
GE 5000	41.9	45.6	49.0	49.9	50.0	51.1	51.2	51.2	51.6	51.7	51.7	51.7	51.8	51.9	51.9	
GE 4500	46.5	50.5	54.4	55.5	55.6	56.7	56.8	56.8	57.2	57.3	57.3	57.3	57.4	57.5	57.5	
GE 4000	51.1	55.2	59.4	60.5	60.9	62.0	62.2	62.2	62.6	62.7	62.7	62.7	62.8	62.9	62.9	
GE 3500	54.6	58.9	63.1	64.8	65.2	66.5	66.6	66.6	67.0	67.1	67.1	67.1	67.2	67.3	67.3	
GE 3000	61.1	66.8	71.8	73.7	74.0	75.3	75.5	75.5	75.9	76.0	76.0	76.0	76.1	76.2	76.2	
GE 2500	63.8	69.5	75.2	77.0	77.3	78.6	79.0	79.0	79.5	79.6	79.6	79.6	79.7	79.8	79.8	
GE 2000	66.7	72.8	79.0	80.9	81.2	82.7	83.1	83.1	83.5	83.7	83.7	83.7	83.8	83.9	83.9	
GE 1800	66.9	73.0	79.4	81.7	82.0	83.7	84.2	84.2	84.6	84.7	84.7	84.7	84.8	84.9	84.9	
GE 1500	67.6	74.2	81.2	83.9	84.2	85.9	86.6	86.7	87.2	87.3	87.3	87.3	87.4	87.5	87.5	
GE 1200	69.1	76.1	84.5	87.8	88.3	90.3	91.3	91.5	92.0	92.2	92.2	92.2	92.3	92.4	92.4	
GE 1000	69.5	77.1	85.6	89.4	89.8	92.0	93.1	93.3	94.3	94.4	94.4	94.4	94.5	94.6	94.6	
GE 900	69.5	77.2	85.8	89.6	90.0	92.4	93.7	93.9	95.1	95.2	95.2	95.2	95.3	95.4	95.4	
GE 800	69.8	77.6	86.3	90.2	90.6	93.0	94.3	94.5	95.8	95.9	95.9	95.9	96.0	96.1	96.1	
GE 700	69.8	77.6	86.3	90.4	90.9	93.5	94.8	95.1	96.3	96.5	96.5	96.5	96.6	96.7	96.7	
GF 600	69.8	77.6	86.3	90.5	91.0	93.7	95.3	95.8	97.2	97.3	97.3	97.3	97.4	97.5	97.5	
GE 500	69.8	77.6	86.3	90.5	91.0	93.9	95.8	96.3	98.1	98.2	98.2	98.2	98.3	98.4	98.4	
GF 400	69.8	77.6	86.3	90.8	91.2	94.1	96.1	96.7	98.7	98.8	98.8	98.8	98.9	99.0	99.0	
GE 300	69.8	77.6	86.3	90.8	91.2	94.1	96.2	96.8	98.9	99.0	99.2	99.2	99.4	99.5	99.5	
GE 200	69.8	77.6	86.3	90.8	91.2	94.1	96.2	96.8	98.9	99.0	99.2	99.2	99.4	99.5	99.8	
GE 100	69.8	77.6	86.3	90.8	91.2	94.1	96.2	96.8	98.9	99.0	99.2	99.2	99.4	99.5	100.0	
GE 0		69.8	77.6	86.3	90.8	91.2	94.1	96.2	96.8	98.9	99.0	99.2	99.2	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VFRSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: OCT HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		25.3	27.0	30.3	31.3	31.7	33.8	34.3	34.3	35.9	35.9	36.2	36.6	36.9	37.4	36.1
GE 2000		28.2	31.1	34.7	35.7	36.1	38.3	38.9	38.9	41.1	41.1	41.5	41.8	42.3	42.8	43.4
GE 1800		28.3	31.3	34.9	35.9	36.3	38.5	39.1	39.1	41.3	41.3	41.7	42.0	42.5	43.0	43.7
GE 1600		28.3	31.3	34.9	35.9	36.3	38.5	39.1	39.1	41.3	41.3	41.7	42.0	42.5	43.0	43.7
GE 1400		28.3	31.3	35.2	36.1	36.6	38.7	39.4	39.4	41.5	41.5	41.9	42.3	42.7	43.2	43.9
GE 1200		28.7	31.7	35.7	36.7	37.1	39.2	39.9	39.9	42.0	42.0	42.5	42.8	43.2	43.8	44.4
GE 1000		30.4	33.4	37.4	38.4	38.8	41.0	41.6	41.6	43.8	43.9	44.3	44.6	45.1	45.7	46.3
GE 900		30.5	33.8	37.7	38.7	39.1	41.3	41.9	41.9	44.1	44.2	44.6	44.9	45.4	46.0	46.7
GE 800		33.0	36.2	40.4	41.4	41.8	44.0	44.7	44.7	46.9	47.0	47.4	47.7	48.2	48.8	49.5
GE 700		33.8	37.0	41.2	42.2	42.6	44.7	45.5	45.5	47.6	47.7	48.2	48.5	48.9	49.6	50.2
GE 600		34.1	37.3	41.5	42.5	42.9	45.1	45.8	45.8	48.1	48.2	48.6	48.9	49.4	50.0	50.6
GE 500		37.0	40.2	44.5	45.5	45.9	48.3	49.0	49.0	51.4	51.5	51.9	52.3	52.7	53.3	54.0
GE 450		43.3	47.3	52.6	53.8	54.2	56.6	57.3	57.3	59.7	59.8	60.2	60.5	61.0	61.6	62.3
GE 400		47.5	51.7	57.4	59.8	59.4	61.7	62.7	62.7	65.1	65.2	65.6	65.9	66.3	67.0	67.6
GE 350		49.7	54.2	60.4	62.3	62.8	65.2	66.1	66.1	68.6	68.7	69.1	69.5	69.9	70.5	71.2
GE 300		53.8	58.7	65.2	67.3	67.8	70.4	71.5	71.6	74.1	74.2	74.6	74.9	75.4	76.0	76.8
GE 250		55.6	61.0	67.7	70.6	71.2	73.8	74.8	74.9	77.5	77.6	78.1	78.4	78.8	79.5	80.2
GE 200		58.8	64.5	72.2	75.4	75.9	78.6	79.7	79.8	82.4	82.5	82.9	83.2	83.7	84.3	85.1
GE 180		59.4	65.1	72.8	76.0	76.6	79.2	80.3	80.4	83.1	83.2	83.7	84.0	84.4	85.1	85.8
GE 150		60.3	66.2	75.5	78.8	79.4	82.4	83.7	83.8	86.5	86.6	87.0	87.3	87.7	88.4	89.1
GE 120		61.5	67.4	77.5	80.9	81.4	84.4	85.7	85.9	88.6	88.7	89.1	89.5	89.9	90.5	91.3
GE 100		61.8	67.7	78.1	81.7	82.3	85.6	87.0	87.4	90.4	90.5	91.0	91.3	91.7	92.4	93.1
GE 90		61.8	68.0	78.6	82.3	82.9	86.2	87.7	88.2	91.5	91.6	92.0	92.4	92.8	93.4	94.2
GE 80		61.9	68.3	78.9	82.7	83.3	86.9	88.5	88.9	92.5	92.6	93.0	93.3	93.8	94.4	95.2
GE 70		61.9	68.3	78.9	82.7	83.3	87.2	89.0	89.5	93.0	93.1	93.5	93.9	94.3	94.9	95.7
GE 60		61.9	68.3	78.9	82.8	83.4	87.3	89.4	90.0	93.8	93.9	94.3	94.6	95.1	95.7	96.5
GE 50		61.9	68.3	78.9	82.8	83.4	87.3	89.4	90.0	94.0	94.1	94.5	94.8	95.3	95.9	96.7
GE 40		61.9	68.3	78.9	82.8	83.4	87.3	89.5	90.1	94.8	94.9	95.4	95.7	96.1	96.9	97.6
GE 30		61.9	68.3	78.9	82.8	83.4	87.3	89.5	90.5	95.4	95.5	96.2	96.7	97.2	98.0	98.9
GE 20		61.9	68.3	78.9	82.8	83.4	87.3	89.5	90.6	95.6	95.8	96.6	97.0	97.5	98.4	99.4
GE 10		61.9	68.3	78.9	82.8	83.4	87.3	89.5	90.6	95.6	95.8	96.6	97.0	97.5	98.4	99.8
GE 0		61.9	68.3	78.9	82.8	83.4	87.3	89.5	90.6	95.6	95.8	96.6	97.0	97.5	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: OCT HOURS (LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 90	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	16.0	17.5	20.0	21.2	21.4	22.2	22.7	22.9	24.3	24.4	24.6	25.1	25.6	26.8	27.6	
GE 20000	19.4	21.2	24.1	25.4	25.6	26.8	27.4	27.7	29.3	29.5	29.7	30.2	30.8	32.0	32.9	
GE 18000	19.5	21.3	24.2	25.5	25.7	26.9	27.4	27.8	29.4	29.6	29.8	30.3	30.9	32.1	33.0	
GE 16000	19.5	21.3	24.3	25.6	25.8	26.9	27.5	27.8	29.5	29.6	29.9	30.3	31.0	32.2	33.0	
GE 14000	19.5	21.4	24.3	25.6	25.8	27.0	27.5	27.9	29.5	29.7	29.9	30.4	31.0	32.3	33.1	
GE 12000	20.0	21.9	24.8	26.2	26.4	27.5	28.1	28.4	30.1	30.2	30.5	30.9	31.5	32.8	33.7	
GE 10000	21.3	23.1	26.2	27.6	27.8	28.9	29.5	29.9	31.5	31.7	32.0	32.4	33.1	34.3	35.2	
GE 9000	21.8	23.7	27.0	28.4	28.6	29.8	30.5	30.8	32.5	32.7	32.9	33.4	34.1	35.3	36.2	
GE 8000	23.6	25.6	29.2	30.6	30.8	32.1	32.8	33.1	34.9	35.0	35.3	35.8	36.4	37.7	38.6	
GE 7000	24.0	26.1	29.7	31.1	31.4	32.7	33.4	33.7	35.5	35.6	35.9	36.4	37.0	38.3	39.2	
GE 6000	24.4	26.5	30.1	31.5	31.8	33.1	33.8	34.1	36.0	36.1	36.4	36.9	37.6	38.8	39.7	
GE 5000	26.4	28.6	32.5	34.1	34.4	35.8	36.6	37.0	39.1	39.3	39.6	40.1	40.8	42.1	42.9	
GE 4500	31.0	33.8	38.3	40.1	40.4	41.8	42.6	43.0	45.2	45.4	45.7	46.2	46.9	48.2	49.1	
GE 4000	35.4	38.4	43.4	45.4	45.8	47.3	48.2	48.6	51.0	51.2	51.5	52.0	52.7	54.0	54.9	
GE 3500	38.0	41.6	46.9	49.3	49.7	51.3	52.2	52.6	55.0	55.2	55.5	56.0	56.8	58.1	58.9	
GE 3000	43.6	47.7	53.7	56.4	56.9	58.6	59.7	60.3	63.0	63.3	63.6	64.2	65.0	66.3	67.2	
GE 2500	46.3	50.5	57.1	59.9	60.4	62.2	63.4	63.9	66.6	66.9	67.3	67.9	68.6	70.0	70.9	
GE 2000	49.3	53.8	61.0	64.1	64.6	66.5	67.8	68.4	71.1	71.4	71.8	72.4	73.2	74.5	75.4	
GE 1800	50.0	54.5	61.9	65.1	65.6	67.5	68.8	69.5	72.2	72.5	72.9	73.5	74.3	75.6	76.5	
GE 1500	52.7	57.6	65.9	69.5	70.1	72.2	73.7	74.4	77.3	77.7	78.0	78.6	79.4	80.7	81.6	
GE 1200	53.9	59.0	68.2	72.2	72.8	75.1	76.8	77.6	80.6	81.0	81.3	81.9	82.7	84.0	84.9	
GE 1000	54.6	60.0	69.7	74.1	74.8	77.4	79.2	80.0	83.3	83.7	84.0	84.6	85.4	86.8	87.7	
GE 900	54.9	60.3	70.3	75.0	75.7	78.3	80.4	81.2	84.7	85.1	85.4	86.0	86.8	88.1	89.0	
GE 800	55.1	60.6	70.6	75.7	76.3	79.1	81.3	82.2	85.8	86.2	86.6	87.1	87.9	89.3	90.2	
GE 700	55.3	60.7	71.0	76.1	76.8	79.8	82.3	83.1	86.9	87.3	87.7	88.3	89.1	90.4	91.3	
GE 600	55.3	60.7	71.2	76.4	77.1	80.5	83.1	84.1	88.2	88.6	89.1	89.7	90.5	91.8	92.7	
GE 500	55.3	60.7	71.2	76.5	77.2	80.7	83.4	84.5	89.0	89.4	89.9	90.6	91.4	92.8	93.7	
GE 400	55.3	60.7	71.2	76.6	77.3	80.9	83.7	84.9	89.9	90.4	91.0	91.6	92.4	93.9	94.9	
GE 300	55.3	60.7	71.2	76.6	77.3	81.0	83.9	85.2	90.5	91.2	91.9	92.6	93.5	95.0	96.4	
GE 200	55.3	60.7	71.2	76.6	77.3	81.0	83.9	85.3	90.8	91.5	92.3	93.0	94.2	96.0	96.2	
GE 100	55.3	60.7	71.2	76.6	77.3	81.0	83.9	85.3	90.8	91.5	92.3	93.1	94.3	96.5	99.6	
GE 0	55.3	60.7	71.2	76.6	77.3	81.0	83.9	85.3	90.9	91.5	92.3	93.1	94.4	96.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: NOV HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL	17.2	19.0	20.4	21.7	21.9	22.8	23.0	23.3	24.0	24.0	24.4	24.7	25.4	26.1	27.3	
GE 20000	16.8	20.8	22.2	23.6	23.8	24.7	24.9	25.2	25.9	25.9	26.4	26.7	27.6	28.2	29.8	
GE 18000	18.8	20.8	22.2	23.6	23.8	24.7	24.9	25.2	25.9	25.9	26.4	26.7	27.6	28.2	29.8	
GE 16000	18.8	20.8	22.2	23.6	23.8	24.7	24.9	25.2	25.9	25.9	26.4	26.7	27.6	28.2	29.8	
GE 14000	19.1	21.1	22.6	23.9	24.1	25.0	25.2	25.6	26.2	26.2	26.8	27.0	27.9	28.6	30.1	
GE 12000	19.3	21.3	22.8	24.1	24.3	25.2	25.4	25.8	26.4	26.4	27.0	27.2	28.2	28.9	30.4	
GE 10000	20.0	22.0	23.6	25.0	25.2	26.1	26.3	26.7	27.3	27.3	27.9	28.1	29.1	29.8	31.3	
GE 9000	20.2	22.2	23.9	25.3	25.6	26.4	26.8	27.1	27.8	27.8	28.3	28.6	29.6	30.2	31.8	
GE 8000	21.8	23.8	25.7	27.1	27.7	28.7	29.0	29.3	30.0	30.0	30.6	30.8	32.0	32.8	34.3	
GE 7000	22.3	24.6	26.4	27.9	28.4	29.4	29.8	30.1	30.8	30.8	31.3	31.6	32.8	33.6	35.1	
GE 6000	23.2	25.4	27.3	28.8	29.3	30.3	30.7	31.0	31.7	31.7	32.2	32.4	33.7	34.4	36.0	
GE 5000	24.7	26.9	29.1	30.8	31.3	32.3	33.0	33.3	34.0	34.0	34.6	34.8	36.0	36.8	38.3	
GE 4500	29.1	31.4	33.9	35.6	36.1	37.1	37.8	38.1	38.9	38.9	39.4	39.7	40.9	41.7	43.2	
GE 4000	34.1	36.7	39.3	41.3	41.9	42.9	43.6	43.9	44.8	44.8	45.3	45.6	46.8	47.6	49.1	
GE 3500	37.6	40.1	42.9	45.1	45.7	47.0	47.8	48.1	49.0	49.0	49.6	49.8	51.0	51.8	53.3	
GE 3000	42.1	44.8	48.4	51.1	51.7	53.2	54.1	54.6	55.4	55.4	56.0	56.2	57.4	58.2	59.8	
GE 2500	45.1	48.0	51.8	54.8	55.3	57.0	57.9	58.3	59.2	59.2	59.8	60.0	61.2	62.0	63.6	
GE 2000	48.9	52.1	56.6	59.6	60.2	62.1	63.0	63.6	64.4	64.4	65.0	65.2	66.4	67.2	68.8	
GE 1800	49.8	53.1	57.6	60.7	61.3	63.3	64.2	64.8	65.7	65.7	66.2	66.4	67.7	68.6	70.1	
GE 1500	52.7	56.6	62.2	65.6	66.2	68.7	69.9	70.4	71.4	71.4	72.1	72.3	73.6	74.4	76.0	
GE 1200	53.8	58.1	64.6	68.0	68.7	71.1	72.3	72.9	73.9	73.9	74.6	74.8	76.0	76.9	78.4	
GE 1000	54.7	60.1	67.9	71.4	72.3	75.0	76.3	76.9	77.9	77.9	78.6	78.8	80.0	80.9	82.4	
GE 900	55.8	61.2	69.1	72.7	73.6	76.2	77.6	78.2	79.2	79.2	79.9	80.1	81.3	82.3	83.9	
GE 800	55.8	61.6	69.6	73.4	74.4	77.4	78.8	79.4	80.8	80.8	81.4	81.7	82.9	84.0	85.6	
GE 700	56.0	61.8	70.0	74.0	75.0	78.3	79.9	80.7	82.0	82.0	82.7	82.9	84.1	85.2	86.8	
GE 600	56.0	61.6	70.0	74.0	75.3	78.7	80.6	81.9	83.2	83.6	84.2	84.4	85.7	86.8	88.3	
GE 500	56.0	61.8	70.0	74.0	75.4	79.1	81.7	83.1	85.0	85.3	86.0	86.3	87.9	89.0	90.6	
GE 400	56.0	61.8	70.0	74.1	75.6	80.0	83.6	85.0	87.3	87.8	89.6	89.9	90.4	91.6	93.1	
GE 300	56.1	61.9	70.1	74.2	75.7	80.2	84.0	85.7	88.7	89.3	90.1	90.6	92.2	93.7	95.2	
GE 200	56.1	61.9	70.1	74.2	75.7	80.2	84.3	86.0	89.4	90.4	91.3	91.9	93.9	95.7	97.6	
GE 100	56.1	61.9	70.1	74.2	75.7	80.2	84.3	86.0	89.4	90.4	91.3	91.9	94.2	96.4	99.9	
GE 0	56.1	61.9	70.1	74.2	75.7	80.2	84.3	86.0	89.4	90.4	91.3	91.9	94.3	96.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: NOV HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GC 80	GF 60	GE 48	GE 40	GE 32	GF 24	GE 20	GE 16	GE 12	GC 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.0	16.7	18.0	18.7	19.0	20.0	20.6	21.0	22.2	22.4	22.8	23.0	23.5	24.1	24.4
GE 20000	16.9	17.9	19.2	19.9	20.2	21.2	21.8	22.2	23.9	24.0	24.5	24.7	25.1	25.9	27.1	
GE 18000	16.9	17.9	19.2	19.9	20.2	21.2	21.8	22.2	23.9	24.0	24.5	24.7	25.1	25.9	27.1	
GE 16000	16.9	17.9	19.2	19.9	20.2	21.2	21.8	22.2	23.9	24.0	24.5	24.7	25.1	25.9	27.1	
GE 14000	16.9	17.9	19.2	19.9	20.2	21.2	21.8	22.2	23.9	24.0	24.5	24.7	25.1	25.9	27.1	
GE 12000	16.9	17.9	19.2	19.9	20.2	21.2	21.8	22.2	23.9	24.0	24.5	24.7	25.1	25.9	27.1	
GE 10000	17.5	18.5	19.8	20.5	20.8	21.8	22.4	22.8	24.5	24.6	25.0	25.3	25.7	26.5	27.7	
GE 9000	17.6	18.6	19.9	20.6	20.9	21.9	22.5	22.9	24.6	24.7	25.1	25.4	25.8	26.6	27.8	
GE 8000	20.0	21.0	22.6	23.2	23.6	25.0	25.6	26.0	27.7	27.8	28.3	28.5	29.1	29.9	31.1	
GE 7000	20.2	21.2	23.0	23.7	24.0	25.5	26.0	26.7	28.4	28.5	28.9	29.1	29.8	30.6	31.8	
GE 6000	20.8	21.9	23.7	24.4	24.7	26.1	26.7	27.4	29.0	29.1	29.6	29.8	30.5	31.3	32.5	
GE 5000	21.7	23.0	25.1	25.9	26.3	27.7	28.3	28.9	30.9	31.0	31.5	31.7	32.4	33.1	34.4	
GE 4500	25.6	26.9	29.0	29.8	30.4	31.8	32.4	33.0	35.0	35.2	35.6	35.8	36.5	37.3	38.5	
GE 4000	29.9	31.4	33.8	34.9	35.5	37.0	37.6	38.3	40.4	40.5	40.9	41.2	41.9	42.7	43.9	
GE 3500	33.1	34.6	37.5	38.6	39.2	41.0	41.6	42.3	44.4	44.5	44.9	45.2	45.9	46.7	47.9	
GE 3000	37.4	39.0	42.7	44.0	44.6	46.8	47.5	48.3	50.4	50.5	50.9	51.2	51.9	52.7	53.9	
GE 2500	39.2	40.6	44.8	46.4	46.9	49.3	49.9	50.7	52.8	52.9	53.4	53.6	54.4	55.2	56.4	
GE 2000	44.0	46.5	50.9	52.8	53.5	56.3	57.0	57.7	59.8	60.0	60.4	60.6	61.4	62.2	63.4	
GE 1800	45.2	47.6	52.2	54.2	54.8	58.0	58.6	59.4	61.5	61.6	62.1	62.3	63.1	63.8	65.1	
GE 1500	48.6	51.6	56.6	59.1	60.1	63.7	64.5	65.4	67.6	67.7	68.2	68.4	69.2	70.1	71.3	
GE 1200	49.8	53.4	59.7	62.2	63.2	67.0	67.7	68.6	70.9	71.0	71.4	71.6	72.4	73.3	74.5	
GE 1000	51.2	55.7	63.1	65.7	66.7	70.6	71.7	72.9	75.3	75.4	75.9	76.1	76.9	77.8	79.0	
GE 900	52.3	57.0	64.4	67.1	68.1	72.0	73.1	74.2	76.6	76.6	76.8	77.2	77.4	78.2	79.1	
GE 800	52.3	57.3	65.1	67.7	68.7	73.0	74.1	75.2	78.1	78.2	78.6	78.9	79.6	80.9	82.1	
GE 700	52.4	57.4	65.5	68.3	69.3	74.0	75.3	76.4	79.6	79.9	80.3	80.5	81.3	82.5	83.8	
GE 600	52.5	57.5	65.6	68.5	69.7	74.6	76.5	77.9	81.2	81.8	82.2	82.4	83.2	84.5	85.8	
GE 500	52.5	57.5	65.6	68.6	69.9	75.1	78.1	79.5	84.0	84.5	85.0	85.2	86.3	87.7	88.9	
GE 400	52.5	57.5	65.6	69.0	70.2	76.1	79.6	81.2	85.8	86.4	86.9	87.1	88.2	89.5	90.8	
GE 300	52.6	57.6	65.7	69.1	70.3	76.2	80.1	81.9	87.1	87.1	87.7	88.0	89.0	90.4	91.8	
GE 200	52.6	57.6	65.7	69.1	70.3	76.2	80.3	82.3	87.8	87.8	88.7	89.0	90.3	91.7	93.1	
GE 100	52.6	57.6	65.7	69.1	70.3	76.2	80.3	82.3	87.9	87.9	88.9	89.8	90.4	91.8	93.2	
GE 0	52.6	57.6	65.7	69.1	70.3	76.2	80.3	82.3	88.0	88.0	89.0	89.9	90.5	91.9	93.3	

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: NOV HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		12.9	13.8	14.6	14.8	14.8	15.4	15.8	16.2	16.9	17.1	17.4	17.4	17.4	18.2	18.9
GE 20000		13.9	15.1	16.0	16.3	16.3	17.0	17.4	17.9	18.7	18.9	19.2	19.2	19.2	20.0	21.3
GE 18000		13.9	15.1	16.0	16.3	16.3	17.0	17.4	17.9	18.7	18.9	19.2	19.2	19.2	20.0	21.3
GE 16000		13.9	15.1	16.0	16.3	16.3	17.0	17.4	17.9	18.7	18.9	19.2	19.2	19.2	20.0	21.3
GE 14000		14.1	15.3	16.2	16.6	16.6	17.2	17.7	18.1	18.9	19.1	19.4	19.4	19.4	20.2	21.6
GE 12000		14.1	15.3	16.2	16.6	16.6	17.2	17.7	18.1	18.9	19.1	19.4	19.4	19.4	20.2	21.6
GE 10000		14.9	16.1	17.0	17.3	17.3	18.0	18.4	18.9	19.7	19.9	20.2	20.2	20.2	21.0	22.3
GE 9000		15.6	16.8	17.7	18.0	18.0	18.7	19.1	19.6	20.3	20.6	20.9	20.9	20.9	21.7	23.0
GE 8000		16.7	17.9	18.8	19.1	19.1	20.0	20.4	21.0	21.9	22.1	22.4	22.4	22.4	23.2	24.6
GE 7000		16.9	18.1	19.1	19.4	19.4	20.3	20.8	21.3	22.2	22.4	22.8	22.8	22.9	23.7	25.0
GE 6000		17.1	18.4	19.4	19.8	19.8	20.7	21.1	21.7	22.6	22.8	23.1	23.2	23.2	24.0	25.3
GE 5000		18.6	20.3	21.8	22.3	22.4	23.4	23.9	24.4	25.7	25.9	26.3	26.4	26.4	27.2	28.6
GE 4500		21.7	23.4	24.9	25.4	26.1	27.2	27.7	28.2	29.4	29.7	30.1	30.3	30.3	31.1	32.4
GE 4000		26.0	27.9	29.3	30.2	31.0	32.3	32.9	33.4	34.7	35.1	35.6	35.9	35.9	36.7	38.0
GE 3500		29.3	31.3	32.9	34.0	34.8	36.2	36.8	37.3	38.6	39.0	39.4	39.8	39.8	40.6	41.9
GE 3000		33.9	36.6	38.8	39.9	40.8	42.6	43.3	43.9	45.1	45.6	46.1	46.4	46.4	47.2	48.6
GE 2500		35.9	38.6	41.0	42.3	43.3	45.1	46.2	47.1	48.3	48.8	49.3	49.7	49.7	50.4	51.8
GE 2000		39.6	42.6	45.1	46.8	47.8	49.7	50.9	51.8	53.0	53.4	54.0	54.4	54.4	55.2	56.6
GE 1800		40.3	43.4	46.1	47.9	48.9	50.8	52.1	53.0	54.2	54.7	55.3	55.8	55.8	56.6	57.9
GE 1500		44.4	48.1	52.1	54.1	55.4	58.1	59.4	60.3	61.9	62.3	63.1	63.6	63.7	64.4	65.8
GE 1200		47.1	50.8	56.3	58.7	60.0	63.0	64.7	65.6	67.1	67.6	68.3	68.8	68.9	69.7	71.0
GE 1000		48.4	52.9	59.3	61.8	63.2	66.6	68.4	69.3	70.9	71.3	72.1	72.7	72.8	73.6	74.9
GE 900		49.4	54.0	61.1	63.8	65.2	68.7	70.6	71.4	73.1	73.6	74.3	74.7	75.0	75.8	77.1
GE 800		49.8	54.3	62.4	65.1	66.6	70.2	72.2	73.1	75.3	75.9	76.8	77.4	77.6	78.4	79.8
GE 700		50.1	54.9	63.6	66.2	67.8	72.2	74.2	75.1	77.6	78.1	79.0	79.8	80.0	80.9	82.2
GE 600		50.4	55.2	64.1	66.8	68.3	73.1	75.2	76.6	79.3	79.9	80.8	81.7	81.9	82.8	84.1
GE 500		50.4	55.2	64.1	66.9	68.4	73.9	76.8	78.1	81.4	82.2	83.2	84.1	84.8	85.7	87.0
GE 400		50.4	55.2	64.1	67.0	68.6	74.2	77.9	79.4	83.7	84.7	85.7	86.6	87.2	88.1	89.7
GE 300		50.4	55.2	64.1	67.0	68.6	74.2	78.3	80.0	85.1	86.2	87.2	88.1	89.1	90.3	92.8
GE 200		50.4	55.2	64.1	67.0	68.6	74.2	78.4	80.1	85.9	87.4	89.0	90.1	91.3	93.9	97.1
GE 100		50.4	55.2	64.1	67.0	68.6	74.2	78.4	80.2	86.3	87.9	89.4	90.6	91.9	95.2	99.7
GE 0		50.4	55.2	64.1	67.0	68.6	74.2	78.4	80.2	86.3	87.9	89.4	90.8	92.2	95.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 960



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-81  
 MONTH: NOV HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 36	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.7	10.4	11.3	11.6	11.9	12.6	13.1	13.2	14.1	14.1	14.2	14.3	14.9	15.3	15.7
GE 20000		12.4	13.3	14.2	14.6	14.9	15.7	16.6	16.8	17.9	17.9	18.0	18.1	18.7	19.2	20.0
GE 18000		12.4	13.3	14.2	14.7	15.0	15.8	16.7	16.9	18.0	18.0	18.1	18.2	18.8	19.3	20.1
GE 16000		12.4	13.3	14.3	14.8	15.1	15.9	16.8	17.0	18.1	18.1	18.2	18.3	18.9	19.4	20.2
GE 14000		12.8	13.7	14.7	15.1	15.4	16.2	17.1	17.3	18.4	18.4	18.6	18.7	19.2	19.8	20.6
GE 12000		13.3	14.2	15.2	15.7	16.0	16.8	17.7	17.9	19.0	19.0	19.1	19.2	19.8	20.3	21.1
GE 10000		13.9	14.9	15.9	16.3	16.7	17.4	18.3	18.6	19.7	19.7	19.8	19.9	20.4	21.0	21.8
GE 9000		14.6	15.6	16.6	17.0	17.3	18.1	19.0	19.2	20.3	20.3	20.4	20.6	21.1	21.7	22.4
GE 8000		16.6	17.7	18.8	19.3	19.7	20.4	21.6	21.8	23.0	23.0	23.1	23.2	23.8	24.3	25.1
GE 7000		17.0	18.1	19.2	19.8	20.1	20.9	22.1	22.3	23.6	23.6	23.7	23.8	24.3	25.0	25.8
GE 6000		17.1	18.2	19.3	20.1	20.4	21.2	22.4	22.7	23.9	23.9	24.0	24.1	24.7	25.3	26.1
GE 5000		19.1	20.6	21.9	23.1	23.6	24.3	25.9	26.1	27.3	27.3	27.4	27.6	28.1	28.8	29.6
GE 4500		21.7	23.3	25.1	26.6	27.0	27.9	29.7	30.0	31.2	31.3	31.4	31.6	32.1	32.8	33.6
GE 4000		24.8	26.7	28.6	30.1	30.6	31.7	33.8	34.2	35.6	35.7	35.8	35.9	36.4	37.1	37.9
GE 3500		28.0	30.4	32.8	34.3	34.9	36.2	38.4	39.0	40.4	40.6	40.7	40.8	41.4	42.1	42.9
GE 3000		31.4	34.1	37.1	39.0	39.8	41.6	44.0	44.6	46.3	46.4	46.6	46.7	47.4	48.1	49.0
GE 2500		32.9	35.8	39.0	40.9	41.8	43.7	46.1	46.8	48.7	48.8	48.9	49.0	49.8	50.4	51.3
GE 2000		35.4	38.8	42.6	44.7	45.6	47.8	50.3	51.0	53.0	53.1	53.2	53.3	54.1	54.8	55.7
GE 1800		36.7	40.0	44.0	46.1	47.1	49.3	52.0	52.8	54.8	54.9	55.0	55.1	55.9	56.6	57.4
GE 1500		41.1	45.7	52.1	54.8	56.1	58.9	62.0	62.8	65.0	65.1	65.3	65.4	66.2	66.9	67.8
GE 1200		43.0	48.9	56.7	59.7	61.1	64.0	67.2	68.0	70.3	70.4	70.7	70.8	71.6	72.2	73.1
GE 1000		44.3	50.7	60.2	63.7	65.2	68.3	71.7	72.6	74.9	75.3	75.6	75.8	76.7	77.4	78.3
GE 900		45.0	51.3	61.0	64.4	66.0	69.2	72.6	73.4	76.0	76.4	76.7	76.9	77.8	78.6	79.4
GE 800		45.3	52.1	62.1	65.9	67.4	71.0	74.3	75.4	78.2	78.7	79.0	79.2	80.2	81.1	82.0
GE 700		45.9	52.7	63.3	67.3	68.9	72.8	76.1	77.4	80.3	80.8	81.1	81.4	82.4	83.4	84.3
GE 600		45.9	52.7	63.6	67.6	69.1	73.3	76.7	78.3	81.3	81.9	82.2	82.7	83.7	84.9	85.8
GE 500		45.9	52.7	63.7	67.7	69.2	74.0	77.4	79.3	82.7	83.4	83.8	84.3	85.6	86.8	87.7
GE 400		45.9	52.7	63.7	67.7	69.2	74.1	78.0	80.2	84.0	85.0	85.4	86.2	87.4	88.9	89.9
GE 300		45.9	52.7	63.7	67.7	69.2	74.1	78.2	80.7	85.0	86.1	86.8	87.7	89.0	91.2	92.9
GE 200		45.9	52.7	63.7	67.7	69.2	74.1	78.2	81.1	85.7	87.2	88.3	89.2	91.2	94.2	97.8
GE 100		45.9	52.7	63.7	67.7	69.2	74.1	78.2	81.1	85.7	87.2	88.4	89.4	91.6	95.0	99.7
GE 0		45.9	52.7	63.7	67.7	69.2	74.1	78.2	81.1	85.7	87.2	88.4	89.4	91.6	95.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: NOV HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE J
NO CEIL		12.4	13.1	15.3	16.7	16.8	17.1	17.1	17.3	17.6	17.7	17.7	17.7	17.8	17.9	17.9
GE 20000		15.3	16.3	18.7	20.2	20.3	20.7	20.7	21.0	21.2	21.4	21.4	21.4	21.6	21.7	21.7
GE 18000		15.6	16.6	19.0	20.6	20.7	21.0	21.0	21.3	21.6	21.8	21.8	21.8	21.9	22.0	22.0
GE 16000		15.7	16.7	19.1	20.8	20.9	21.2	21.2	21.6	21.8	22.0	22.0	22.0	22.1	22.2	22.2
GE 14000		15.8	16.6	19.2	20.9	21.0	21.3	21.3	21.7	21.9	22.1	22.1	22.1	22.2	22.3	22.3
GE 12000		16.2	17.2	19.7	21.3	21.4	21.8	21.8	22.1	22.3	22.6	22.6	22.6	22.7	22.8	22.8
GE 10000		17.4	18.4	21.0	22.7	22.8	23.2	23.2	23.6	23.8	24.0	24.0	24.0	24.1	24.2	24.2
GE 9000		17.8	18.8	21.3	23.0	23.1	23.6	23.6	23.9	24.1	24.3	24.3	24.3	24.4	24.6	24.6
GE 8000		20.1	21.3	24.0	25.7	25.8	26.2	26.2	26.6	26.8	27.0	27.0	27.0	27.1	27.2	27.2
GE 7000		20.9	22.3	25.2	27.2	27.3	27.8	27.8	28.1	28.3	28.6	28.6	28.6	28.6	28.8	28.8
GE 6000		21.6	23.0	26.0	28.0	28.1	28.6	28.6	28.9	29.1	29.3	29.3	29.3	29.4	29.6	29.6
GE 5000		23.1	24.8	27.9	30.0	30.2	30.9	31.1	31.4	31.7	31.9	31.9	31.9	32.0	32.1	32.1
GE 4500		25.1	27.0	30.4	33.0	33.2	33.9	34.3	34.7	34.9	35.1	35.1	35.1	35.3	35.7	35.7
GE 4000		28.6	30.4	34.0	36.8	37.1	37.9	38.3	38.7	39.0	39.2	39.2	39.2	39.4	39.8	39.8
GE 3500		33.2	35.2	39.0	42.1	42.6	43.3	43.8	44.1	44.4	44.7	44.8	44.8	45.0	45.3	45.3
GE 3000		39.9	42.2	47.3	50.8	51.6	52.4	53.3	53.9	54.3	54.6	54.7	54.7	54.9	55.2	55.2
GE 2500		42.0	44.3	49.8	53.7	54.6	55.4	56.3	57.2	57.7	57.9	58.0	58.0	58.2	58.6	58.6
GE 2000		45.9	48.4	54.2	58.3	59.2	60.3	61.4	62.4	62.9	63.1	63.2	63.2	63.4	63.8	63.8
GE 1800		47.1	49.8	55.8	59.9	60.8	61.9	63.0	64.0	64.4	64.7	64.8	64.8	65.0	65.3	65.3
GE 1500		51.7	55.6	63.0	67.8	68.7	70.0	71.6	72.7	73.6	73.8	73.9	73.9	74.1	74.4	74.4
GE 1200		53.1	57.4	66.6	71.4	72.3	73.9	75.4	76.6	77.7	77.9	78.0	78.0	78.2	78.6	78.6
GE 1000		54.4	59.2	69.6	75.4	76.6	78.4	80.2	81.4	82.6	82.8	82.9	82.9	83.1	83.4	83.4
GE 900		54.7	59.4	69.9	76.3	77.4	79.4	81.2	82.4	83.8	84.0	84.1	84.1	84.3	84.7	84.7
GE 800		55.3	60.1	70.9	77.7	78.8	80.8	82.7	84.2	85.9	85.2	86.3	86.3	86.6	86.9	86.9
GE 700		55.6	60.3	71.1	78.1	79.4	82.7	84.9	86.8	88.7	89.0	89.1	89.2	89.4	89.8	89.8
GE 600		55.6	60.4	71.7	78.9	80.2	83.9	86.1	88.0	90.1	90.4	90.7	90.8	91.0	91.3	91.3
GE 500		55.6	60.4	72.0	79.7	81.1	84.9	88.4	90.3	92.7	93.0	93.2	93.6	93.8	94.2	94.2
GE 400		55.6	60.4	72.1	80.0	81.4	85.2	89.0	91.2	94.0	94.4	94.7	95.0	95.2	95.7	95.7
GE 300		55.6	60.4	72.1	80.0	81.4	85.3	89.2	91.7	95.3	95.8	96.3	97.0	97.2	97.8	98.3
GE 200		55.6	60.4	72.1	80.0	81.4	85.3	89.2	91.7	95.4	95.9	96.9	97.7	97.9	98.4	99.6
GE 100		55.6	60.4	72.1	80.0	81.4	85.3	89.2	91.7	95.4	95.9	97.0	97.9	98.2	98.8	100.0
GE 0		55.6	60.4	72.1	80.0	81.4	85.3	89.2	91.7	95.4	95.9	97.0	97.9	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	19.1	20.1	22.4	22.9	22.9	23.1	23.2	23.2	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7
GE 20000	22.4	23.7	26.4	27.1	27.1	27.3	27.4	27.4	27.9	27.9	28.0	28.0	28.0	28.0	28.0	28.0
GE 18000	23.0	24.2	27.0	27.7	27.7	27.9	28.0	28.0	28.4	28.4	28.6	28.6	28.6	28.6	28.6	28.6
GE 16000	23.1	24.3	27.1	27.8	27.8	28.0	28.1	28.1	28.6	28.6	28.7	28.7	28.7	28.7	28.7	28.7
GE 14000	23.9	25.1	27.9	28.6	28.6	28.8	28.9	28.9	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4
GE 12000	24.7	25.9	28.7	29.3	29.3	29.6	29.7	29.7	30.1	30.1	30.2	30.2	30.2	30.2	30.2	30.2
GE 10000	25.3	26.6	29.3	30.0	30.0	30.2	30.3	30.3	30.9	30.9	31.0	31.0	31.0	31.0	31.0	31.0
GE 9000	25.9	27.1	29.9	30.6	30.6	30.8	30.9	30.9	31.4	31.4	31.6	31.6	31.6	31.6	31.6	31.6
GE 8000	27.6	28.8	31.6	32.3	32.3	32.6	32.7	32.7	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.3
GE 7000	28.6	29.9	32.7	33.6	33.6	34.0	34.1	34.1	34.7	34.7	34.8	34.8	34.8	34.8	34.8	34.8
GE 6000	29.6	31.0	34.1	35.0	35.0	35.4	35.6	35.6	36.1	36.1	36.2	36.2	36.2	36.2	36.2	36.2
GE 5000	31.0	32.6	35.7	36.6	36.6	37.0	37.1	37.1	37.7	37.7	37.8	37.8	37.8	37.8	37.8	37.8
GE 4500	34.0	35.6	38.8	39.8	39.8	40.3	40.4	40.4	41.0	41.0	41.1	41.1	41.1	41.1	41.1	41.1
GE 4000	38.8	40.3	43.7	44.7	44.7	45.2	45.3	45.3	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1
GE 3500	43.0	44.7	48.1	49.1	49.1	49.7	49.8	49.8	50.4	50.4	50.6	50.6	50.6	50.6	50.6	50.6
GE 3000	52.9	55.2	60.0	61.2	61.2	61.9	62.0	62.2	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0
GE 2500	55.6	57.9	62.9	64.1	64.1	64.9	65.0	65.2	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0
GE 2000	60.4	63.1	68.8	70.0	70.0	70.8	70.9	71.3	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1
GE 1800	62.3	65.6	71.3	72.6	72.6	73.4	73.6	74.0	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8
GE 1600	66.2	70.1	76.2	78.0	78.0	78.1	79.1	79.2	79.7	80.4	80.4	80.7	80.7	80.7	80.7	80.7
GE 1200	67.0	71.3	79.0	80.9	81.1	82.4	82.6	83.0	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0
GE 1000	67.9	72.9	81.8	84.2	84.4	86.1	86.2	86.7	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7
GE 900	68.2	73.2	82.4	85.6	85.9	87.7	87.9	88.3	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4
GE 800	68.6	73.7	83.0	86.4	86.8	88.6	89.0	89.8	91.3	91.3	91.6	91.6	91.6	91.6	91.6	91.6
GE 700	68.6	73.7	83.7	87.3	87.8	90.6	91.2	92.2	94.2	94.2	94.4	94.4	94.6	94.6	94.6	94.6
GE 600	68.6	73.7	83.9	87.7	88.3	91.3	92.1	93.4	95.8	95.8	96.4	96.4	96.6	96.6	96.6	96.6
GE 500	68.6	73.7	84.2	88.0	88.7	91.7	92.6	94.0	96.4	96.4	97.1	97.1	97.2	97.2	97.2	97.2
GE 400	68.6	73.7	84.3	88.1	88.8	91.8	92.7	94.6	97.4	97.4	98.1	98.1	98.2	98.2	98.2	98.2
GE 300	68.6	73.7	84.3	88.1	88.8	91.9	92.7	94.7	97.9	97.9	98.0	98.9	98.9	99.0	99.0	99.3
GE 200	68.6	73.7	84.3	88.1	88.8	91.8	92.7	94.7	98.1	98.1	98.2	99.2	99.2	99.3	99.3	99.9
GE 100	68.6	73.7	84.3	88.1	88.8	91.8	92.7	94.7	98.1	98.2	99.2	99.2	99.3	99.3	100.0	100.0
GE 0	68.6	73.7	84.3	88.1	88.8	91.8	92.7	94.7	98.1	98.2	99.2	99.2	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
 MONTH: NOV HOURS(LST): 1400-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	160	90	80	60	49	40	32	24	20	16	17	10	8	5	4	0
NO CEIL		22.2	24.3	26.1	26.7	26.9	27.6	27.7	27.8	27.9	27.9	28.0	28.2	26.2	28.3	28.6
GE 20000		25.1	27.4	29.6	30.3	30.6	31.2	31.3	31.4	31.7	31.8	31.9	32.1	32.1	32.2	32.4
GE 14000		25.4	27.8	29.9	30.7	30.9	31.6	31.7	31.8	32.0	32.1	32.2	32.4	32.4	32.6	32.8
GE 16000		25.7	29.0	30.1	30.9	31.1	31.8	31.9	32.0	32.2	32.3	32.4	32.7	32.7	32.8	33.0
GE 14000		26.0	28.3	30.4	31.2	31.4	32.1	32.2	32.3	32.6	32.7	32.8	33.0	33.0	33.1	33.3
GE 12000		26.7	29.0	31.1	31.9	32.1	32.8	32.9	33.0	33.2	33.3	33.4	33.7	33.7	33.8	34.0
GE 10000		28.0	30.3	32.4	33.3	33.6	34.2	34.3	34.4	34.7	34.8	34.9	35.1	35.1	35.2	35.4
GE 9000		28.8	31.1	33.3	34.2	34.4	35.1	35.2	35.3	35.6	35.7	35.8	36.0	36.0	36.1	36.3
GE 8000		30.0	32.4	35.0	35.9	36.1	36.8	36.9	37.0	37.2	37.3	37.4	37.7	37.7	37.8	38.0
GE 7000		30.7	33.1	35.9	36.9	37.1	37.8	37.9	38.0	38.2	38.3	38.4	38.7	38.7	38.8	39.0
GE 6000		31.0	33.4	36.3	37.3	37.6	38.2	38.3	38.4	38.7	38.8	38.9	39.1	39.1	39.2	39.4
GE 5000		32.0	34.8	38.1	39.1	39.3	40.0	40.1	40.2	40.4	40.6	40.7	40.9	40.9	41.0	41.2
GE 4500		36.6	39.6	42.9	43.9	44.1	45.0	45.1	45.2	45.4	45.6	45.7	45.9	45.9	46.0	46.2
GE 4000		40.0	43.2	46.6	47.9	48.1	49.0	49.2	49.3	49.6	49.7	49.8	50.0	50.0	50.1	50.3
GE 3500		43.9	47.4	51.4	53.1	53.3	54.2	54.4	54.6	54.8	54.9	55.0	55.2	55.2	55.3	55.6
GE 3000		51.3	55.0	60.8	62.6	62.8	63.8	64.0	64.2	64.7	64.8	64.9	65.1	65.1	65.2	65.4
GE 2500		55.3	59.1	65.3	67.1	67.3	68.3	68.6	68.9	69.4	69.6	69.7	69.9	69.9	70.0	70.2
GE 2000		58.8	63.1	69.8	72.0	72.2	73.2	73.4	73.8	74.3	74.4	74.6	74.8	74.8	74.9	75.1
GE 1800		60.0	64.3	71.0	73.2	73.4	74.4	74.7	75.0	75.6	75.7	75.8	76.0	76.0	76.1	76.3
GE 1500		62.7	67.3	75.0	77.8	78.0	79.0	79.3	79.7	80.8	80.9	81.0	81.2	81.2	81.3	81.6
GE 1200		63.0	67.7	76.1	79.3	79.6	80.7	81.0	81.3	82.4	82.6	82.7	82.9	82.9	83.0	83.2
GE 1000		63.6	68.7	78.7	82.6	82.8	84.2	84.6	84.9	86.0	86.1	86.2	86.4	86.4	86.6	86.8
GE 900		63.7	68.8	79.3	83.4	83.9	85.3	85.8	86.2	87.3	87.4	87.6	87.8	87.8	87.9	88.1
GE 800		64.3	69.9	80.7	85.2	85.9	87.6	88.1	88.8	90.0	90.1	90.2	90.4	90.4	90.6	90.8
GE 700		64.3	69.9	80.8	85.6	86.3	88.7	89.8	90.9	92.4	92.6	92.7	92.9	92.9	93.0	93.2
GE 600		64.3	69.9	80.9	85.7	86.4	88.8	90.0	91.9	94.7	94.9	95.1	95.3	95.3	95.4	95.7
GE 500		64.3	69.9	80.9	85.7	86.4	89.1	90.4	92.4	95.3	95.4	95.8	96.0	96.0	96.1	96.3
GE 400		64.3	69.9	80.9	85.7	86.4	89.1	90.4	92.4	95.7	96.0	96.4	96.7	96.7	97.0	97.2
GE 300		64.4	70.0	81.0	85.8	86.6	89.2	90.6	92.9	96.9	97.2	98.0	98.2	98.2	98.6	99.1
GE 200		64.4	70.0	81.0	85.8	86.6	89.2	90.6	92.9	97.1	97.4	98.4	98.7	98.7	99.0	99.8
GE 100		64.4	70.0	81.0	85.8	86.6	89.2	90.6	92.9	97.1	97.4	98.4	98.7	98.7	99.0	99.9
GE 0		64.4	70.0	81.0	85.8	86.6	89.2	90.6	92.9	97.1	97.4	98.4	98.7	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: NOV HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 30	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL	20.9	22.6	24.1	25.0	25.3	25.7	26.2	26.2	26.8	26.8	26.9	27.2	27.8	28.3	28.9	
GE 20000	22.6	24.3	26.1	27.0	27.3	27.7	28.2	28.3	28.9	28.9	29.0	29.3	29.9	30.4	31.0	
GE 18000	22.8	24.6	26.3	27.2	27.6	27.9	28.4	28.6	29.1	29.1	29.2	29.6	30.2	30.8	31.3	
GE 16000	22.8	24.6	26.3	27.2	27.6	27.9	28.4	28.6	29.1	29.1	29.2	29.6	30.2	30.8	31.3	
GE 14000	23.1	24.9	26.7	27.6	27.9	28.2	28.8	28.9	29.4	29.4	29.6	29.9	30.6	31.1	31.7	
GE 12000	23.2	25.0	26.6	27.7	28.0	28.3	28.9	29.0	29.6	29.6	29.7	30.0	30.7	31.2	31.8	
GE 10000	25.0	26.8	28.7	29.6	29.9	30.3	30.9	31.0	31.7	31.7	31.8	32.1	32.8	33.3	33.9	
GE 9000	25.4	27.2	29.1	30.0	30.3	30.8	31.3	31.4	32.1	32.1	32.2	32.6	33.2	33.8	34.3	
GE 8000	26.6	28.4	30.9	31.9	32.2	32.7	33.2	33.3	34.0	34.0	34.1	34.4	35.1	35.7	36.2	
GE 7000	27.2	29.1	31.6	32.7	33.0	33.4	34.0	34.1	34.8	34.8	34.9	35.2	35.9	36.4	37.0	
GE 6000	27.2	29.1	31.6	32.7	33.0	33.4	34.0	34.1	34.8	34.8	34.9	35.2	35.9	36.4	37.0	
GE 5000	28.8	30.8	33.9	35.0	35.3	35.8	36.6	36.7	37.3	37.3	37.4	37.8	38.4	39.0	39.6	
GE 4500	33.3	35.6	39.0	40.2	40.6	41.0	41.8	41.9	42.7	42.7	42.8	43.1	43.8	44.3	44.9	
GE 4000	37.7	40.1	43.7	45.1	45.4	45.9	47.1	47.2	48.1	48.1	48.2	48.6	49.2	49.8	50.3	
GE 3500	40.6	43.0	46.8	48.2	48.6	49.3	50.6	50.7	51.6	51.6	51.7	52.0	52.7	53.2	53.8	
GE 3000	45.0	47.6	52.7	54.6	54.9	55.9	57.2	57.3	58.4	58.4	58.6	58.9	59.6	60.1	60.7	
GE 2500	49.1	52.1	57.8	59.7	60.0	61.0	62.3	62.4	63.6	63.6	63.7	64.0	64.7	65.2	65.8	
GE 2000	53.4	57.3	63.6	65.8	66.1	67.1	68.4	68.6	69.7	69.7	69.8	70.2	70.9	71.4	72.0	
GE 1800	54.8	58.7	64.9	67.1	67.4	68.4	69.8	69.9	71.0	71.0	71.1	71.6	72.2	72.8	73.3	
GE 1500	57.1	61.3	68.9	71.4	71.8	73.0	74.3	74.4	76.2	76.2	76.3	76.8	77.4	78.0	78.6	
GE 1200	58.0	62.4	70.8	73.6	73.9	75.1	76.4	76.6	78.3	78.3	78.4	78.9	79.6	80.1	80.7	
GE 1000	58.4	63.2	73.2	76.1	76.4	78.0	79.3	79.4	81.2	81.2	81.3	81.8	82.4	83.0	83.6	
GE 900	58.9	63.7	74.0	76.9	77.2	78.9	80.2	80.8	82.6	82.6	82.7	83.1	83.8	84.3	84.9	
GE 800	59.7	64.8	76.0	79.2	79.7	81.6	83.0	83.6	85.4	85.4	85.6	86.0	86.7	87.2	87.8	
GE 700	59.8	64.9	76.3	79.6	80.0	82.7	84.9	85.6	87.7	87.8	87.9	88.3	89.0	89.6	90.1	
GE 600	59.8	64.9	76.4	79.8	80.2	82.9	85.8	87.2	90.2	90.4	90.6	91.0	91.7	92.2	92.8	
GE 500	59.8	64.9	76.4	79.8	80.2	82.9	86.1	87.7	90.4	91.0	91.2	91.7	92.6	93.1	93.7	
GE 400	59.8	64.9	76.4	79.8	80.2	83.2	86.8	88.4	91.9	92.3	92.3	93.7	94.6	95.1	95.7	
GE 300	59.8	64.9	76.4	79.8	80.2	83.4	87.0	89.0	93.2	93.7	94.7	95.1	96.0	96.7	97.4	
GE 200	59.8	64.9	76.4	79.8	80.2	83.4	87.1	89.1	93.6	94.1	95.3	95.8	97.0	98.1	99.2	
GE 100	59.8	64.9	76.4	79.8	80.2	83.4	87.1	89.1	93.6	94.1	95.3	95.8	97.0	98.2	99.8	
GE 0	59.8	64.9	76.4	79.8	80.2	83.4	87.1	89.1	93.6	94.1	95.3	95.8	97.0	98.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-81  
MONTH: NOV HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	16.3	17.5	19.0	19.7	19.9	20.5	20.8	21.0	21.6	21.7	21.9	22.0	22.3	22.8	23.2	
GE 20000	18.4	19.9	21.6	22.4	22.6	23.2	23.5	23.9	24.5	24.6	24.8	24.9	25.3	25.7	26.4	
GE 18000	18.6	20.0	21.7	22.6	22.8	23.4	23.7	24.0	24.7	24.8	25.0	25.1	25.5	25.9	26.6	
GE 16000	18.7	20.1	21.6	22.7	22.9	23.5	23.8	24.1	24.8	24.9	25.1	25.2	25.6	26.0	26.7	
GE 14000	19.0	20.4	22.1	23.0	23.2	23.9	24.1	24.4	25.1	25.2	25.4	25.5	25.9	26.3	27.0	
GE 12000	19.3	20.7	22.5	23.3	23.5	24.1	24.5	24.7	25.4	25.5	25.7	25.9	26.2	26.7	27.4	
GE 10000	20.3	21.7	23.5	24.3	24.5	25.2	25.5	25.8	26.5	26.6	26.8	27.0	27.3	27.8	28.5	
GE 9000	20.7	22.2	24.0	24.8	25.0	25.7	26.0	26.3	27.0	27.1	27.3	27.5	27.8	28.3	29.0	
GE 8000	22.4	23.9	25.9	26.8	27.1	27.8	28.2	28.5	29.2	29.3	29.5	29.7	30.1	30.5	31.2	
GE 7000	23.0	24.6	26.6	27.6	27.9	28.6	29.1	29.4	30.1	30.2	30.4	30.6	31.0	31.4	32.2	
GE 6000	23.4	25.1	27.2	28.3	28.5	29.3	29.7	30.0	30.7	30.8	31.0	31.2	31.6	32.1	32.8	
GE 5000	24.9	26.7	29.2	30.4	30.6	31.4	32.0	32.3	33.1	33.2	33.4	33.6	34.0	34.5	35.2	
GE 4500	28.4	30.4	33.0	34.3	34.7	35.5	36.1	36.4	37.3	37.4	37.7	37.9	38.2	38.7	39.4	
GE 4000	32.5	34.6	37.4	38.9	39.3	40.2	41.0	41.3	42.3	42.4	42.6	42.8	43.2	43.7	44.4	
GE 3500	36.1	38.4	41.4	43.1	43.5	44.6	45.4	45.7	46.7	46.8	47.1	47.3	47.7	48.2	48.9	
GE 3000	41.7	44.3	48.5	50.4	50.9	52.3	53.2	53.6	54.7	54.8	55.1	55.3	55.7	56.2	57.0	
GE 2500	44.4	47.1	51.5	53.6	54.2	55.6	56.5	57.1	58.2	58.3	58.6	58.8	59.2	59.7	60.5	
GE 2000	48.3	51.5	56.4	58.7	59.3	60.9	61.9	62.5	63.6	63.8	64.0	64.2	64.7	65.2	65.9	
GE 1800	49.5	52.8	57.9	60.2	60.8	62.5	63.5	64.1	65.2	65.4	65.6	65.8	66.3	66.8	67.5	
GE 1500	53.1	57.0	63.3	66.1	66.8	68.9	70.0	70.7	72.1	72.2	72.6	72.8	73.3	73.8	74.5	
GE 1200	54.4	58.8	66.2	69.2	70.0	72.1	73.4	74.1	75.6	75.7	76.0	76.2	76.7	77.2	77.9	
GE 1000	55.4	60.4	69.2	72.6	73.5	75.9	77.3	78.0	79.5	79.7	80.0	80.3	80.7	81.3	82.0	
GE 900	56.0	61.1	70.2	73.8	74.7	77.2	78.6	79.4	81.0	81.2	81.5	81.7	82.2	82.8	83.5	
GE 800	56.4	61.7	71.2	75.1	76.0	78.8	80.3	81.2	83.1	83.3	83.7	83.9	84.4	85.1	85.8	
GE 700	56.6	61.9	71.8	75.8	76.8	80.2	82.0	83.1	85.3	85.5	85.9	86.2	86.7	87.4	88.1	
GE 600	56.6	62.0	72.0	76.1	77.2	80.8	82.9	84.4	87.0	87.3	87.8	88.1	88.6	89.3	90.0	
GE 500	56.6	62.0	72.1	76.3	77.4	81.3	83.9	85.6	88.5	88.9	89.4	89.8	90.5	91.2	91.9	
GE 400	56.6	62.0	72.1	76.4	77.6	81.7	84.7	86.6	90.0	90.5	91.1	91.5	92.2	93.0	93.8	
GE 300	56.7	62.1	72.2	76.5	77.6	81.8	85.0	87.1	91.2	91.8	92.6	93.1	93.9	94.9	96.1	
GE 200	56.7	62.1	72.2	76.5	77.6	81.8	85.1	87.2	91.6	92.4	93.5	94.1	95.2	96.7	98.5	
GE 100	56.7	62.1	72.2	76.5	77.6	81.8	85.1	87.2	91.7	92.5	93.6	94.2	95.4	97.3	99.8	
GE 0	56.7	62.1	72.2	76.5	77.6	81.8	85.1	87.2	91.7	92.5	93.6	94.3	95.5	97.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7199

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-87  
MONTH: DEC HOURLY(SLT): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 60	GE 40	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 2
NO CEIL	12.9	15.1	18.1	18.7	18.8	19.0	19.2	19.6	19.6	19.8	19.8	19.8	19.9	19.9	20.6	20.9
GE 20000	14.6	16.9	20.1	27.9	21.0	21.5	21.9	22.4	22.6	22.6	22.6	22.6	22.6	22.7	23.4	23.7
GE 18000	14.7	17.0	20.2	21.0	21.1	21.6	22.0	22.5	22.7	22.7	22.7	22.7	22.7	22.8	23.5	23.8
GE 16000	14.7	17.1	20.2	21.0	21.1	21.6	22.0	22.5	22.7	22.7	22.7	22.7	22.7	22.8	23.5	23.8
GE 14000	14.8	17.1	20.3	21.1	21.2	21.7	22.2	22.6	22.8	22.8	22.8	22.8	22.8	22.9	23.7	23.9
GE 12000	15.1	17.3	20.5	21.3	21.4	21.9	22.4	22.8	23.0	23.0	23.0	23.0	23.0	23.1	23.9	24.1
GE 10000	16.5	18.6	22.3	23.1	23.2	23.8	24.2	24.6	24.8	24.8	24.8	24.8	24.9	24.9	25.7	25.9
GE 9000	16.6	19.2	22.7	23.5	23.7	24.2	24.6	25.1	25.3	25.3	25.3	25.3	25.3	25.4	26.1	26.3
GE 8000	17.5	20.3	23.6	24.6	24.7	25.3	25.7	26.1	26.3	26.3	26.3	26.3	26.3	26.5	27.2	27.4
GE 7000	17.7	20.5	24.0	24.8	24.9	25.8	26.2	26.7	26.9	26.9	26.9	26.9	26.9	26.9	27.2	28.2
GE 6000	18.2	21.0	24.4	25.3	25.4	26.2	26.7	27.1	27.3	27.3	27.3	27.3	27.3	27.6	28.4	28.6
GE 5000	20.0	23.0	26.6	27.6	27.7	28.6	29.2	29.7	29.9	29.9	29.9	29.9	29.9	30.2	31.0	31.2
GE 4500	21.8	25.1	29.2	30.3	30.4	31.3	31.9	32.4	32.6	32.6	32.6	32.6	32.6	32.9	33.7	33.9
GE 4000	25.8	29.2	34.1	35.4	35.5	36.5	37.1	37.5	37.7	37.7	37.7	37.7	37.7	38.1	38.8	39.1
GE 3500	27.8	31.3	36.1	37.5	37.7	38.7	39.4	39.8	40.0	40.0	40.0	40.0	40.0	40.4	41.2	41.5
GE 3000	33.8	37.8	43.4	44.8	45.1	46.2	47.2	47.6	48.1	48.1	48.1	48.2	48.2	48.6	49.4	49.7
GE 2500	36.8	41.0	46.8	48.5	48.7	49.9	50.9	51.3	51.7	51.7	51.7	51.7	51.8	52.3	53.0	53.3
GE 2000	43.4	49.0	56.3	58.1	58.4	59.8	60.8	61.2	61.6	61.6	61.6	61.7	61.8	62.3	63.0	63.3
GE 1800	44.1	49.7	57.2	59.4	59.7	61.1	62.0	62.5	63.1	63.1	63.2	63.2	63.3	63.8	64.5	64.8
GE 1500	47.4	53.9	61.7	64.3	64.6	66.1	67.3	67.7	68.1	68.1	68.9	68.9	69.0	69.5	70.2	70.5
GE 1200	49.5	56.1	64.7	67.6	68.0	69.8	71.1	71.5	72.6	72.6	72.7	72.7	72.9	73.3	74.1	74.4
GE 1000	51.6	58.5	68.7	71.7	72.2	74.5	75.8	76.2	77.4	77.4	77.5	77.5	77.7	78.2	78.9	79.2
GE 900	51.9	58.8	69.7	72.7	73.1	75.5	76.8	77.5	78.8	78.8	78.9	78.9	79.1	79.6	80.3	80.6
GE 800	52.6	59.6	71.6	75.1	75.5	78.0	79.4	80.1	81.7	81.7	81.8	82.0	82.0	82.5	83.2	83.5
GE 700	52.9	60.3	72.7	76.2	76.8	79.8	81.6	82.9	84.6	84.6	84.7	84.7	84.9	85.4	86.1	86.5
GE 600	53.1	60.6	73.4	77.0	78.2	81.7	83.5	85.3	88.3	88.3	88.4	88.4	88.9	89.4	90.1	90.4
GE 500	53.2	60.8	73.5	77.1	78.3	82.0	84.7	86.6	91.0	91.0	91.1	91.6	92.1	92.8	93.1	93.1
GE 400	53.2	60.8	73.7	77.3	78.5	82.9	85.7	87.5	92.4	92.4	92.8	93.3	93.8	94.5	94.8	94.8
GE 300	53.2	60.8	73.7	77.3	78.5	82.9	85.7	87.6	93.5	94.2	94.6	95.2	95.7	96.5	96.8	96.8
GE 200	53.2	60.8	73.7	77.3	78.5	82.9	85.7	87.6	93.5	94.5	94.9	95.6	96.3	97.6	98.2	98.2
GE 100	53.3	60.9	73.8	77.4	78.6	83.0	85.8	87.7	93.8	94.7	95.3	96.0	97.5	98.8	99.6	99.6
GE 0	53.3	60.9	73.8	77.4	78.6	83.0	85.8	87.7	93.8	94.7	95.4	96.1	97.6	98.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: DEC HOURS(IST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS																
	GT 160	GE 90	GE 80	GF 70	GE 60	GE 50	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GF 4	GF 0
NO CEIL		12.8	14.3	16.9	18.2	18.4	19.0	19.5	19.8	20.0	20.1	20.1	20.2	20.3	21.0	21.2	
GE 20000		13.3	15.1	18.0	19.4	19.6	20.4	20.9	21.3	21.5	21.7	21.7	21.9	21.9	22.6	22.9	
GE 18000		13.3	15.1	18.0	19.4	19.6	20.4	20.9	21.3	21.5	21.7	21.7	21.9	21.9	22.6	22.9	
GE 16000		13.3	15.1	18.0	19.4	19.6	20.4	20.9	21.3	21.5	21.7	21.7	21.9	21.9	22.6	22.9	
GE 14000		13.5	15.3	18.2	19.6	19.8	20.6	21.1	21.5	21.7	21.9	21.9	22.0	22.2	22.8	23.1	
GE 12000		13.5	15.3	18.3	19.8	20.0	20.9	21.3	21.7	21.9	22.2	22.2	22.3	22.4	23.0	23.3	
GE 10000		14.1	15.6	18.8	20.3	20.5	21.4	21.8	22.4	22.6	22.8	22.8	22.9	23.0	23.7	24.0	
GE 9000		14.3	16.3	19.4	20.9	21.1	21.9	22.4	22.9	23.1	23.3	23.3	23.4	23.5	24.2	24.5	
GE 8000		15.5	17.8	20.9	22.4	22.6	23.4	23.9	24.4	24.6	24.8	24.8	24.9	25.1	25.7	26.0	
GE 7000		15.6	18.0	21.2	22.8	23.0	24.0	24.4	24.9	25.3	25.5	25.5	25.6	25.7	26.3	26.7	
GE 6000		15.9	18.3	21.5	23.1	23.3	24.3	24.7	25.3	25.6	25.8	25.8	25.9	26.0	26.7	27.0	
GE 5000		17.8	20.3	24.0	25.6	25.9	26.9	27.3	28.0	28.3	28.5	28.5	28.6	28.8	29.6	29.9	
GE 4500		21.2	23.5	28.1	29.7	30.0	31.0	31.5	32.2	32.5	32.7	32.8	33.0	33.8	34.1		
GE 4000		24.1	26.8	31.4	33.0	33.7	34.9	35.5	36.1	36.8	37.0	37.0	37.1	37.3	38.1	38.6	
GE 3500		27.8	30.6	35.5	37.1	37.7	39.0	39.6	40.2	40.9	41.1	41.1	41.2	41.5	42.3	42.8	
GE 3000		31.2	34.2	39.6	41.2	41.8	43.1	43.7	44.3	44.9	45.2	45.2	45.3	45.6	46.3	47.0	
GE 2500		33.8	37.2	42.8	44.7	45.4	46.9	47.4	48.1	48.7	48.9	48.9	49.0	49.4	50.1	50.6	
GE 2000		41.4	45.8	52.6	54.5	55.4	57.0	57.8	58.5	59.2	59.5	59.5	59.6	59.9	60.8	61.4	
GE 1800		42.0	46.5	53.2	55.4	56.2	57.8	58.7	59.4	60.1	60.3	60.3	60.4	60.8	61.6	62.3	
GE 1500		48.1	53.3	61.0	63.2	64.1	66.0	67.0	67.6	68.5	68.7	68.7	68.8	69.1	70.0	70.6	
GE 1200		49.9	55.5	64.0	66.2	67.1	69.6	70.5	71.3	72.2	72.4	72.4	72.5	72.8	73.7	74.3	
GE 1000		52.2	58.1	68.1	70.5	71.4	74.3	75.3	76.0	76.9	77.1	77.1	77.2	77.5	78.4	79.0	
GE 900		52.5	58.7	69.7	72.2	73.0	76.0	77.1	77.8	78.7	78.9	78.9	79.0	79.4	80.2	80.9	
GE 800		52.9	59.1	70.5	73.0	73.9	77.1	78.5	79.4	80.4	80.6	80.6	80.8	81.1	81.9	82.6	
GE 700		53.3	59.8	71.7	74.6	75.5	79.2	81.0	82.3	83.3	83.5	83.5	83.7	84.0	84.8	85.5	
GE 600		53.4	59.9	72.5	75.6	76.6	81.1	83.1	84.6	86.3	86.6	86.6	86.8	87.1	88.0	88.6	
GE 500		53.4	59.9	72.9	76.7	77.3	82.5	85.4	87.3	89.7	89.9	89.9	90.2	90.5	91.4	92.0	
GE 400		53.4	59.9	73.3	76.8	77.8	83.8	87.2	89.1	91.6	91.8	91.8	92.2	92.5	93.3	94.0	
GE 300		53.4	59.9	73.3	76.8	77.8	83.8	87.4	89.7	93.4	93.7	94.0	94.3	94.6	95.5	96.1	
GE 200		53.4	59.9	73.3	76.8	77.8	83.8	87.4	89.7	93.8	94.2	94.5	94.8	95.9	97.2	98.0	
GE 100		53.4	59.9	73.3	76.8	77.8	83.8	87.4	89.7	94.1	94.5	94.8	95.6	97.1	98.5	99.7	
GE 0		53.4	59.9	73.3	76.8	77.8	83.8	87.4	89.7	94.1	94.5	94.8	95.6	97.1	98.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: DEC HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 9	GE 5	GE 4	GE 0
NO CEIL	12.2	13.9	16.0	17.3	17.4	17.8	18.1	18.4	18.9	19.5	19.5	19.8	20.1	20.4	20.6	
GE 20000	12.8	14.5	16.9	18.6	18.7	19.1	19.5	19.9	20.4	21.0	21.0	21.3	21.6	21.9	22.2	
GE 18000	12.8	14.5	16.9	18.6	18.7	19.1	19.5	19.9	20.4	21.0	21.0	21.3	21.6	21.9	22.2	
GE 16000	12.8	14.5	16.9	18.6	18.7	19.1	19.5	19.9	20.4	21.0	21.0	21.3	21.6	21.9	22.2	
GE 14000	12.8	14.5	16.9	18.6	18.7	19.1	19.5	19.9	20.4	21.0	21.0	21.3	21.6	21.9	22.2	
GE 12000	12.9	14.6	17.2	18.9	19.0	19.5	19.8	20.2	20.8	21.3	21.3	21.6	21.9	22.3	22.5	
GE 10000	13.1	14.8	17.4	19.1	19.2	19.7	20.0	20.5	21.2	21.7	21.7	22.0	22.4	22.7	22.9	
GE 9000	13.2	15.1	17.6	19.4	19.5	19.9	20.2	20.8	21.4	21.9	21.9	22.3	22.6	22.9	23.1	
GE 8000	14.4	16.3	19.0	20.8	20.9	21.4	21.7	22.3	22.9	23.4	23.4	23.8	24.1	24.4	24.6	
GE 7000	14.7	16.7	19.5	21.2	21.3	21.8	22.2	22.7	23.3	23.9	23.9	24.2	24.5	24.8	25.1	
GE 6000	15.2	17.1	19.9	21.6	21.7	22.3	22.6	23.1	23.8	24.3	24.3	24.6	24.9	25.3	25.5	
GE 5000	16.8	18.7	21.8	23.7	24.1	24.6	24.9	25.5	26.1	26.7	26.7	27.0	27.3	27.6	27.8	
GE 4500	19.5	21.4	24.9	26.8	27.2	27.7	28.2	28.8	29.5	30.0	30.0	30.3	30.6	31.0	31.2	
GE 4000	23.9	26.3	30.3	32.2	32.8	33.5	34.0	34.6	35.6	36.1	36.1	36.5	36.8	37.1	37.3	
GE 3500	28.1	30.5	34.9	36.8	37.4	38.2	38.6	39.2	40.2	40.8	40.8	41.1	41.4	41.7	41.9	
GE 3000	31.2	33.7	38.5	40.3	41.0	41.8	42.3	42.9	44.0	44.5	44.5	44.8	45.2	45.5	46.0	
GE 2500	34.3	37.1	42.0	44.3	44.9	46.1	46.9	47.5	48.7	49.2	49.2	49.6	49.9	50.2	50.8	
GE 2000	41.9	45.2	50.5	53.1	53.8	55.3	56.0	56.7	58.1	58.6	58.6	58.9	59.2	59.6	60.1	
GE 1800	43.2	46.5	51.8	54.4	55.1	56.9	57.5	58.2	59.7	60.2	60.2	60.5	60.9	61.2	61.7	
GE 1500	49.9	53.4	60.8	63.4	64.1	66.0	66.9	67.5	69.1	69.7	69.7	70.0	70.3	70.6	71.2	
GE 1200	51.9	55.5	63.3	66.0	66.7	68.7	69.6	70.4	72.2	72.7	72.7	73.0	73.3	73.7	74.2	
GE 1000	55.1	59.0	67.8	70.8	71.4	74.0	74.9	75.8	77.6	78.2	78.3	78.6	78.9	79.2	79.6	
GE 900	55.3	59.4	68.7	71.6	72.3	75.4	76.3	77.2	79.0	79.6	79.7	80.0	80.3	80.6	81.2	
GE 800	55.3	59.5	69.6	72.6	73.4	77.1	78.1	78.9	81.0	81.5	81.6	81.9	82.3	82.6	83.1	
GE 700	55.7	60.1	71.4	74.6	75.5	79.6	80.8	81.7	83.8	84.3	84.4	84.7	85.1	85.4	85.9	
GE 600	55.8	60.2	72.2	75.8	76.7	81.0	82.5	83.9	86.8	87.3	87.4	87.8	88.2	88.5	89.0	
GE 500	55.8	60.2	73.0	76.9	77.8	82.8	85.4	86.8	90.5	91.1	91.2	91.6	91.9	92.3	92.8	
GE 400	55.8	60.2	73.2	77.2	78.3	83.5	86.6	88.1	91.8	92.4	92.5	92.9	93.2	93.5	94.1	
GE 300	55.8	60.2	73.2	77.2	78.3	83.5	86.8	88.4	93.2	93.8	94.0	94.4	94.7	95.1	95.6	
GE 200	55.8	60.2	73.2	77.2	78.3	83.5	86.8	88.6	94.2	94.8	95.1	95.7	96.1	97.0	97.6	
GE 100	55.8	60.2	73.2	77.2	78.3	83.5	86.8	88.6	94.4	95.3	95.6	96.9	97.4	98.7	99.9	
GE 0	55.8	60.2	73.2	77.2	78.3	83.5	86.8	88.6	94.4	95.3	95.6	96.9	97.4	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAF/ETC/  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: DEC HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	8.9	10.5	12.4	14.1	14.3	14.7	15.2	15.5	15.8	16.0	16.0	16.1	16.2	16.3	16.3	
GE 20000	10.0	11.7	13.8	15.9	16.1	16.7	17.1	17.4	17.7	18.0	19.0	18.1	18.3	18.4	18.4	
GE 18000	10.0	11.7	13.8	15.9	16.1	16.7	17.1	17.4	17.7	18.0	18.0	18.1	18.3	18.4	18.4	
GE 16000	10.0	11.7	13.8	15.9	16.1	16.7	17.1	17.4	17.7	18.0	18.0	18.1	18.3	18.4	18.4	
GE 14000	10.0	11.8	13.9	16.0	16.2	16.8	17.2	17.5	17.8	18.1	18.1	18.2	18.4	18.5	18.5	
GE 12000	10.1	11.9	14.0	16.1	16.5	17.0	17.4	17.8	18.2	18.4	18.4	18.5	18.7	18.8	18.8	
GE 10000	10.9	12.8	15.1	17.3	17.6	18.3	18.7	19.1	19.5	19.7	19.7	19.8	20.0	20.1	20.1	
GE 9000	11.3	13.2	15.6	17.8	18.2	18.8	19.2	19.7	20.0	20.2	20.2	20.3	20.5	20.6	20.6	
GE 8000	12.6	14.5	17.0	19.2	19.6	20.3	20.8	21.2	21.5	21.7	21.7	21.8	22.0	22.2	22.2	
GE 7000	13.0	14.9	17.4	20.0	20.3	21.1	21.5	21.9	22.3	22.5	22.5	22.6	22.8	22.9	22.9	
GE 6000	13.0	14.9	17.4	20.0	20.3	21.1	21.5	21.9	22.3	22.5	22.5	22.6	22.8	22.9	22.9	
GE 5000	14.4	16.5	19.2	22.0	22.5	23.2	23.7	24.1	24.4	24.6	24.6	24.7	24.9	25.1	25.1	
GE 4500	15.8	18.0	20.9	23.9	24.3	25.1	25.5	25.9	26.3	26.6	26.6	26.7	26.9	27.0	27.0	
GE 4000	19.4	22.6	26.2	29.6	30.0	31.0	31.4	31.9	32.6	32.9	32.9	33.0	33.2	33.3	33.3	
GE 3500	22.3	25.7	30.1	33.9	34.3	35.3	35.8	36.3	37.0	37.3	37.3	37.4	37.6	37.7	37.7	
GE 3000	27.7	31.8	36.8	40.5	41.1	42.2	42.7	43.2	44.2	44.5	44.5	44.6	45.1	45.2	45.2	
GE 2500	31.2	35.3	40.4	44.7	45.3	46.5	47.1	47.6	48.6	48.9	48.9	49.0	49.5	49.6	49.6	
GE 2000	36.6	41.3	46.8	51.3	51.9	53.5	54.2	54.9	56.0	56.5	56.5	56.6	57.1	57.2	57.2	
GE 1800	38.0	42.7	48.5	53.0	53.7	55.4	56.0	56.8	58.2	58.6	58.6	58.7	59.2	59.4	59.4	
GE 1500	42.9	48.2	55.5	60.2	60.9	62.9	63.7	64.4	65.9	66.3	66.3	66.5	67.0	67.1	67.1	
GE 1200	45.7	51.4	59.5	64.5	65.2	67.2	68.0	68.7	70.2	70.6	70.6	70.8	71.3	71.4	71.4	
GE 1000	48.2	54.4	65.3	71.1	71.7	73.9	74.7	75.5	77.0	77.4	77.4	77.5	78.1	78.2	78.2	
GE 900	48.4	54.9	66.6	72.6	73.2	75.6	76.5	77.2	78.7	79.1	79.1	79.2	79.8	79.9	79.9	
GE 800	48.9	55.8	67.6	73.7	74.4	77.1	78.1	78.9	80.4	80.9	80.9	81.1	81.6	81.7	81.7	
GE 700	48.9	55.8	68.5	74.8	75.6	78.5	79.8	80.6	82.8	83.2	83.2	83.4	84.0	84.1	84.1	
GE 600	48.9	55.8	68.9	75.4	76.7	80.5	81.9	83.7	86.3	86.8	86.9	87.3	87.8	88.0	88.0	
GE 500	48.9	55.8	69.7	76.6	78.0	82.6	85.1	87.0	90.6	91.3	91.4	91.8	92.4	92.5	92.5	
GE 400	48.9	55.8	69.8	76.9	78.3	82.9	85.9	87.8	92.0	92.7	92.8	93.2	93.9	94.0	94.0	
GE 300	48.9	55.8	69.8	76.9	78.3	82.9	86.5	88.6	94.0	94.9	95.1	95.5	96.2	96.3	96.3	
GE 200	48.9	55.8	69.8	76.9	78.3	82.9	86.5	88.6	94.4	95.5	95.7	95.3	97.5	98.1	98.1	
GE 100	48.9	55.8	69.8	76.9	78.3	82.9	86.5	88.6	94.6	95.8	96.0	96.8	98.2	99.6	100.0	
GE 0	46.9	55.8	69.8	76.9	78.3	82.9	86.5	88.6	94.6	95.8	96.0	96.8	98.2	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: DEC HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	11.1	11.6	13.4	15.1	15.4	15.9	16.1	16.3	16.7	16.8	16.8	16.8	16.8	17.0	17.0	
GE 20000	13.3	14.7	17.0	19.2	19.6	20.1	20.3	20.6	21.0	21.1	21.1	21.1	21.1	21.3	21.3	
GE 18000	13.5	14.9	17.3	19.7	20.0	20.5	20.8	21.1	21.4	21.5	21.5	21.5	21.5	21.7	21.7	
GE 16000	13.5	14.9	17.3	19.7	20.0	20.5	20.8	21.1	21.4	21.5	21.5	21.5	21.5	21.7	21.7	
GE 14000	13.8	15.4	17.7	20.1	20.4	21.0	21.2	21.5	21.8	21.9	21.9	21.9	21.9	22.2	22.2	
GE 12000	14.0	15.6	18.0	20.3	20.6	21.2	21.5	21.8	22.2	22.3	22.3	22.3	22.3	22.5	22.5	
GE 10000	15.1	16.8	19.5	21.8	22.2	22.7	23.0	23.3	23.7	23.8	23.8	23.8	23.8	24.0	24.0	
GE 9000	15.3	17.0	19.8	22.2	22.5	23.0	23.3	23.7	24.0	24.1	24.1	24.1	24.1	24.3	24.3	
GE 8000	16.0	17.8	20.8	23.3	23.7	24.3	24.6	24.9	25.3	25.4	25.4	25.4	25.4	25.6	25.6	
GE 7000	16.8	18.7	21.7	24.3	24.8	25.6	25.9	26.2	26.6	26.7	26.7	26.7	26.7	26.9	26.9	
GE 6000	16.9	18.8	21.8	24.4	24.9	25.7	26.0	26.3	26.7	26.8	26.8	26.8	26.8	27.0	27.0	
GE 5000	17.8	19.8	22.9	25.6	26.1	27.0	27.4	27.7	28.1	28.2	28.2	28.2	28.2	28.4	28.4	
GE 4500	19.0	21.4	24.5	27.4	28.0	28.8	29.2	29.6	29.9	30.0	30.0	30.0	30.0	30.2	30.2	
GE 4000	22.2	24.8	28.3	31.3	32.0	32.9	33.3	33.8	34.1	34.2	34.2	34.2	34.2	34.4	34.4	
GE 3500	25.3	28.4	32.3	35.4	36.1	37.0	37.4	37.8	38.2	38.3	38.3	38.3	38.4	38.6	38.6	
GE 3000	31.2	35.3	39.5	42.6	43.3	44.4	44.9	45.5	45.8	45.9	45.9	46.0	46.0	46.2	46.2	
GE 2500	35.5	39.7	44.1	47.6	48.4	49.7	50.3	51.0	51.3	51.4	51.4	51.4	51.5	51.7	51.7	
GE 2000	40.4	44.7	49.8	53.7	54.4	56.7	57.4	58.1	58.5	58.6	58.6	58.6	58.7	58.9	58.9	
GE 1800	41.9	46.2	51.4	55.3	56.0	58.4	59.2	59.9	60.5	60.6	60.6	60.6	60.8	61.0	61.0	
GE 1500	45.1	50.8	57.1	61.5	62.3	64.9	66.0	66.7	67.3	67.4	67.4	67.5	67.5	67.7	67.7	
GE 1200	48.1	54.1	61.8	66.7	67.5	70.5	71.6	72.3	73.1	73.2	73.2	73.3	73.3	73.5	73.5	
GE 1000	49.0	55.2	65.5	71.0	71.8	75.9	77.1	77.7	79.1	79.2	79.2	79.4	79.4	79.6	79.6	
GE 900	49.0	55.2	65.8	71.6	72.5	76.7	77.8	78.5	80.0	80.1	80.1	80.2	80.2	80.4	80.4	
GE 800	49.7	55.8	66.9	73.4	74.3	79.1	80.4	81.5	83.1	83.2	83.2	83.3	83.3	83.5	83.5	
GE 700	50.0	56.1	67.5	74.7	75.8	81.1	82.7	83.8	85.9	86.0	86.2	86.3	86.3	86.6	86.6	
GE 600	50.0	56.1	67.6	75.5	76.8	82.5	84.9	86.5	89.1	89.2	89.5	89.6	89.6	89.8	89.8	
GE 500	50.0	56.1	67.8	76.3	77.6	83.5	87.0	89.2	92.5	92.7	92.9	93.1	93.1	93.3	93.3	
GE 400	50.0	56.1	67.8	76.3	77.6	83.8	87.6	90.1	93.9	94.1	94.4	94.6	94.6	94.8	94.8	
GE 300	50.0	56.1	67.8	76.3	77.6	83.8	87.6	90.1	95.2	95.9	96.5	97.4	97.4	97.6	97.6	
GE 200	50.0	56.1	67.8	76.3	77.6	83.8	87.7	90.2	95.8	96.7	97.2	98.4	99.0	99.4	99.4	
GE 100	50.0	56.1	67.8	76.3	77.6	83.8	87.7	90.2	95.8	96.8	97.3	98.5	99.1	99.9	99.9	
GE 0	50.0	56.1	67.8	76.3	77.6	83.8	87.7	90.2	95.8	96.8	97.3	98.5	99.1	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-81  
MONTH: DEC HOURS(IST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		15.1	15.7	16.9	17.6	17.7	18.3	18.3	18.4	18.4	18.4	18.4	18.4	18.4	18.5	18.5
GE 20000		17.5	18.7	20.5	21.6	21.7	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.9
GE 18000		17.5	18.7	20.6	21.7	21.8	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.9	23.0
GE 16000		17.5	18.7	20.6	21.7	21.8	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.9	23.0
GE 14000		17.6	18.8	20.8	21.8	21.9	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	23.0	23.1
GE 12000		18.0	19.1	21.1	22.2	22.3	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.4
GE 10000		19.8	21.2	23.3	24.4	24.5	25.5	25.5	25.6	25.6	25.6	25.6	25.6	25.6	25.7	25.8
GE 9000		20.0	21.4	23.5	24.7	24.8	25.8	25.8	25.9	25.9	25.9	25.9	25.9	25.9	26.0	26.1
GE 8000		21.5	22.5	25.1	26.7	26.8	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.3	28.4
GE 7000		22.6	24.0	26.2	28.1	28.2	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.7	29.8
GE 6000		22.8	24.2	26.5	28.3	28.4	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.9	30.0
GE 5000		23.5	24.9	27.5	29.4	29.5	30.8	30.9	31.0	31.0	31.0	31.0	31.0	31.0	31.1	31.2
GE 4500		25.3	26.8	29.6	31.4	31.5	32.8	32.9	33.0	33.0	33.0	33.0	33.0	33.0	33.1	33.2
GE 4000		27.8	29.4	32.4	34.3	34.4	35.7	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.1	36.2
GE 3500		31.8	33.4	36.5	38.6	38.8	40.2	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.8
GE 3000		37.8	40.1	43.3	45.9	46.2	47.7	48.0	48.4	48.5	48.5	48.5	48.5	48.5	48.6	48.7
GE 2500		41.9	44.3	47.6	50.6	51.0	52.5	52.7	53.1	53.2	53.3	53.3	53.3	53.3	53.4	53.5
GE 2000		48.0	50.9	54.9	58.8	59.1	61.0	61.2	61.9	62.2	62.3	62.3	62.3	62.3	62.4	62.5
GE 1800		49.4	52.3	56.7	60.6	61.0	63.0	63.2	64.0	64.2	64.3	64.3	64.3	64.3	64.4	64.5
GE 1500		53.4	57.5	63.4	67.7	68.1	70.6	70.9	71.6	71.8	71.9	71.9	71.9	71.9	72.0	72.2
GE 1200		55.3	59.9	67.7	72.6	72.9	75.6	75.9	76.7	77.0	77.1	77.1	77.1	77.1	77.2	77.3
GE 1000		55.9	61.6	70.8	76.5	76.8	79.7	80.3	81.3	81.8	81.9	81.9	81.9	81.9	82.0	82.2
GE 900		55.9	61.7	71.1	78.0	78.3	81.2	81.9	82.9	83.4	83.5	83.5	83.5	83.5	83.7	83.8
GE 800		56.1	61.9	71.8	79.9	80.3	83.7	84.4	85.7	86.5	86.6	86.6	86.6	86.6	86.7	86.8
GE 700		56.5	62.4	72.5	81.1	81.5	85.1	86.2	87.6	89.0	89.1	89.2	89.2	89.2	89.4	89.5
GE 600		56.5	62.4	72.6	81.8	82.3	86.2	87.6	89.1	91.9	92.0	92.2	92.2	92.2	92.3	92.4
GE 500		56.5	62.4	72.6	81.9	82.4	86.6	88.1	90.6	93.9	94.0	94.4	94.6	94.6	94.7	94.8
GE 400		56.5	62.4	72.6	81.9	82.4	86.6	88.1	90.8	94.9	95.1	95.5	96.1	96.1	96.2	96.3
GE 300		56.5	62.4	72.6	81.9	82.4	86.6	88.3	91.2	96.3	96.8	97.2	98.2	98.3	98.4	98.6
GE 200		56.5	62.4	72.6	81.9	82.4	86.6	88.3	91.2	96.5	97.1	97.5	98.5	98.9	99.4	99.9
GE 100		56.5	62.4	72.6	81.9	82.4	86.6	88.3	91.2	96.5	97.1	97.5	98.5	98.9	99.5	100.0
GE NI		56.5	62.4	72.6	81.9	82.4	86.6	88.3	91.2	96.5	97.1	97.5	98.5	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: DEC HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.1	17.5	19.1	19.7	19.8	20.2	20.3	20.4	20.6	20.6	20.6	20.6	20.8	20.8	20.9
GE 20000		18.6	20.3	22.2	22.9	23.0	23.5	23.8	23.9	24.1	24.1	24.2	24.2	24.3	24.3	24.4
GE 18000		18.7	20.4	22.3	23.0	23.1	23.7	23.9	24.0	24.2	24.2	24.3	24.3	24.4	24.4	24.5
GE 16000		18.7	20.4	22.3	23.0	23.1	23.7	23.9	24.0	24.2	24.2	24.3	24.3	24.4	24.4	24.5
GE 14000		19.0	20.6	22.6	23.3	23.4	24.0	24.2	24.3	24.5	24.5	24.6	24.6	24.7	24.7	24.8
GE 12000		19.5	21.2	23.0	23.8	23.9	24.4	24.6	24.7	24.9	24.9	25.1	25.1	25.2	25.2	25.3
GE 10000		20.9	22.8	24.9	26.1	26.2	26.9	27.1	27.2	27.4	27.4	27.5	27.5	27.6	27.6	27.7
GE 9000		21.1	23.2	25.4	26.7	26.8	27.4	27.6	27.7	28.0	28.0	28.1	28.1	28.2	28.2	28.3
GE 8000		22.0	24.2	26.5	28.1	28.2	28.8	29.2	29.4	29.6	29.6	29.7	29.7	29.8	29.8	29.9
GE 7000		22.3	24.6	26.9	28.5	28.6	29.2	29.7	29.8	30.0	30.0	30.3	30.3	30.4	30.4	30.5
GE 6000		22.3	24.6	26.9	28.5	28.7	29.4	29.8	29.9	30.1	30.1	30.4	30.4	30.5	30.5	30.6
GE 5000		23.4	25.8	28.1	29.7	29.9	30.5	31.0	31.1	31.3	31.3	31.6	31.6	31.7	31.7	31.8
GE 4500		25.2	27.6	30.3	32.3	32.5	33.1	33.5	33.7	33.9	33.9	34.2	34.2	34.3	34.3	34.4
GE 4000		29.9	32.6	35.4	37.4	37.7	38.4	38.8	38.9	39.1	39.1	39.5	39.5	39.6	39.6	39.7
GE 3500		32.8	35.5	38.5	40.8	41.1	41.7	42.2	42.3	42.8	42.8	43.1	43.1	43.2	43.2	43.3
GE 3000		38.6	41.9	45.6	48.4	48.7	49.4	49.8	50.2	51.1	51.1	51.5	51.5	51.6	51.6	51.7
GE 2500		42.9	46.6	50.4	53.9	54.2	54.8	55.3	55.7	56.7	56.7	57.1	57.1	57.2	57.2	57.3
GE 2000		47.7	52.3	56.9	60.8	61.1	61.9	62.4	62.8	64.0	64.0	64.4	64.4	64.5	64.5	64.6
GE 1800		48.4	53.0	58.1	61.9	62.3	63.1	63.5	64.0	65.2	65.2	65.6	65.6	65.7	65.7	65.8
GE 1500		51.3	57.1	63.1	67.6	68.0	69.2	69.7	70.1	71.4	71.4	71.8	71.8	71.9	71.9	72.0
GE 1200		53.4	59.6	66.9	71.9	72.3	73.5	74.0	74.5	75.8	75.8	76.2	76.2	76.3	76.3	76.5
GE 1000		54.4	61.1	69.6	75.6	75.9	77.5	78.0	78.5	80.1	80.1	80.5	80.5	80.6	80.6	80.8
GE 900		54.7	61.4	70.3	77.0	77.4	79.4	79.8	80.3	81.9	81.9	82.4	82.4	82.5	82.5	82.6
GE 800		54.8	61.5	71.0	78.4	78.8	81.4	82.2	82.8	84.4	84.4	84.8	84.8	84.9	84.9	85.1
GE 700		55.2	61.8	71.8	79.6	80.0	83.2	84.5	85.2	87.4	87.4	87.8	87.8	88.0	88.0	88.1
GE 600		55.2	61.9	72.4	80.2	80.9	84.6	86.0	86.9	90.1	90.1	90.6	90.6	90.8	90.8	90.9
GE 500		55.2	61.9	72.5	80.6	81.3	85.4	86.8	88.2	92.2	92.2	92.9	93.1	93.3	93.3	93.4
GE 400		55.2	61.9	72.5	80.6	81.3	85.6	87.1	88.7	93.4	93.7	94.4	94.7	94.9	94.9	95.1
GE 300		55.2	61.9	72.5	80.6	81.3	85.8	87.6	89.9	95.5	95.7	96.7	97.2	97.5	97.8	98.3
GE 200		55.2	61.9	72.5	80.6	81.3	85.8	87.6	89.9	95.5	95.7	96.7	97.2	97.8	98.5	100.0
GE 100		55.2	61.9	72.5	80.6	81.3	85.8	87.6	89.9	95.5	95.7	96.7	97.2	97.8	98.5	100.0
GE 0		55.2	61.9	72.5	80.6	81.3	85.8	87.6	89.9	95.5	95.7	96.7	97.2	97.8	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
MONTH: DEC HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		14.0	16.1	19.1	19.9	19.6	20.5	21.0	21.0	21.5	21.5	21.6	21.8	21.9	22.0	22.0
GE 20000		15.7	17.8	21.1	22.0	22.0	22.8	23.2	23.2	23.9	23.9	24.0	24.2	24.3	24.4	24.4
GE 18000		15.7	17.8	21.1	22.0	22.0	22.8	23.2	23.2	23.9	23.9	24.0	24.2	24.3	24.4	24.4
GE 16000		15.7	17.8	21.1	22.0	22.0	22.8	23.2	23.2	23.9	23.9	24.0	24.2	24.3	24.4	24.4
GE 14000		15.9	18.1	21.3	22.3	22.3	23.0	23.4	23.4	24.1	24.1	24.2	24.4	24.5	24.6	24.6
GE 12000		16.3	18.5	21.7	22.7	22.7	23.4	23.9	23.9	24.6	24.6	24.7	24.9	25.1	25.2	25.2
GE 10000		17.5	20.1	23.9	25.1	25.1	25.8	26.3	26.3	27.1	27.1	27.2	27.5	27.6	27.7	27.7
GE 9000		18.0	20.5	24.3	25.5	25.5	26.2	26.8	26.8	27.5	27.5	27.6	28.0	28.1	28.2	28.2
GE 8000		18.8	21.4	25.2	26.3	26.3	27.1	27.8	27.8	28.6	28.6	28.7	29.0	29.1	29.2	29.2
GE 7000		19.0	21.6	25.4	26.6	26.6	27.4	28.2	28.2	28.9	29.0	29.1	29.5	29.8	29.9	29.9
GE 6000		19.1	21.8	25.6	26.8	26.8	27.6	28.4	28.4	29.1	29.2	29.4	29.7	30.0	30.1	30.1
GE 5000		20.6	23.4	27.2	28.4	28.4	29.2	30.2	30.2	31.0	31.1	31.2	31.5	31.8	31.9	31.9
GE 4500		23.5	26.3	30.3	31.6	31.6	32.5	33.4	33.5	34.3	34.4	34.5	34.8	35.2	35.3	35.3
GE 4000		27.0	30.0	34.0	35.7	35.7	36.6	37.5	37.6	38.4	38.5	38.6	38.9	39.2	39.4	39.4
GE 3500		29.8	33.0	37.0	38.7	38.8	39.7	40.6	40.9	41.9	42.0	42.3	42.6	42.9	43.0	43.0
GE 3000		36.0	39.8	44.7	46.5	46.7	47.5	48.6	48.9	50.4	50.6	50.9	51.2	51.6	51.7	51.7
GE 2500		40.1	44.3	49.9	52.0	52.3	53.1	54.2	54.5	56.1	56.3	56.6	56.9	57.3	57.4	57.4
GE 2000		44.4	49.5	56.2	58.7	58.9	59.8	61.1	61.4	63.1	63.3	63.5	63.9	64.3	64.4	64.4
GE 1800		44.8	49.9	56.8	59.4	59.6	60.4	61.7	62.0	63.8	64.0	64.2	64.5	64.9	65.1	65.1
GE 1500		47.7	53.7	61.6	64.6	64.8	66.0	67.4	67.7	69.5	69.7	69.9	70.2	70.6	70.8	70.8
GE 1200		50.4	57.0	66.2	69.8	70.0	71.2	72.6	72.9	74.7	74.9	75.2	75.5	75.9	76.0	76.0
GE 1000		51.7	58.5	69.6	73.2	73.7	74.9	76.6	76.9	79.0	79.2	79.5	79.8	80.2	80.3	80.3
GE 900		52.3	59.0	70.9	74.9	75.4	76.7	78.3	78.7	80.9	81.1	81.3	81.6	82.0	82.2	82.2
GE 800		52.5	59.2	71.8	76.7	77.1	78.7	80.5	81.1	83.4	83.7	83.9	84.2	84.6	84.7	84.7
GE 700		52.8	59.6	72.6	78.0	78.4	80.5	82.6	83.2	85.9	86.1	86.3	86.7	87.1	87.2	87.2
GE 600		52.8	59.6	72.8	78.4	79.1	81.9	84.2	85.2	88.8	89.0	89.6	90.0	90.4	90.5	90.5
GE 500		52.8	59.6	72.8	78.4	79.2	82.4	84.9	86.1	91.4	91.6	92.2	92.6	93.0	93.1	93.1
GE 400		52.8	59.6	72.8	78.4	79.2	82.6	85.4	86.8	92.5	92.7	93.3	93.8	94.2	94.3	94.3
GE 300		52.8	59.6	72.8	78.4	79.2	82.6	85.5	87.1	94.3	95.1	95.8	96.2	97.0	97.1	97.1
GE 200		52.8	59.6	72.8	78.4	79.2	82.6	85.5	87.1	94.4	95.4	96.3	96.8	97.6	98.2	98.9
GE 100		52.8	59.6	72.8	78.4	79.2	82.6	85.5	87.1	94.4	95.4	96.3	96.9	98.2	98.7	99.7
GE 0		52.8	59.6	72.8	78.4	79.2	82.6	85.5	87.1	94.4	95.4	96.5	97.0	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VFRSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: DEC HOURS(IST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		12.9	14.3	16.5	17.6	17.7	18.2	18.5	18.7	19.0	19.1	19.1	19.2	19.3	19.6	19.7
GE 20000		14.5	16.2	18.7	20.1	20.2	20.8	21.2	21.4	21.7	21.9	21.9	22.0	22.1	22.4	22.5
GE 18000		14.5	16.3	18.8	20.2	20.3	20.9	21.3	21.5	21.8	22.0	22.0	22.1	22.2	22.5	22.6
GE 16000		14.5	16.3	18.8	20.2	20.3	20.9	21.3	21.5	21.8	22.0	22.0	22.1	22.2	22.5	22.6
GE 14000		14.7	16.5	19.0	20.3	20.5	21.1	21.4	21.7	22.0	22.2	22.2	22.3	22.4	22.7	22.8
GE 12000		14.9	16.7	19.2	20.6	20.8	21.4	21.7	22.0	22.4	22.5	22.5	22.6	22.7	23.0	23.1
GE 10000		16.0	17.9	20.6	22.2	22.3	23.0	23.1	23.6	24.0	24.1	24.1	24.2	24.4	24.7	24.8
GE 9000		16.2	18.3	21.0	22.6	22.7	23.4	23.8	24.1	24.4	24.5	24.6	24.7	24.8	25.1	25.2
GE 8000		17.3	19.4	22.3	23.9	24.1	24.8	25.2	25.5	25.9	26.0	26.0	26.1	26.3	26.5	26.7
GE 7000		17.7	19.9	22.6	24.5	24.7	25.6	25.9	26.3	26.6	26.6	26.7	26.8	26.9	27.1	27.4
GE 6000		17.9	20.1	23.0	24.7	24.9	25.8	26.2	26.5	26.8	27.0	27.0	27.1	27.3	27.6	27.7
GE 5000		19.3	21.6	24.7	26.5	26.8	27.6	28.1	28.4	28.8	28.9	29.0	29.1	29.2	29.5	29.7
GE 4500		21.4	23.8	27.2	29.2	29.4	30.3	30.8	31.1	31.5	31.6	31.7	31.8	32.0	32.3	32.4
GE 4000		25.0	27.7	31.5	33.6	34.0	34.9	35.4	35.8	36.3	36.5	36.5	36.6	36.8	37.1	37.3
GE 3500		28.2	31.1	35.1	37.3	37.8	38.7	39.2	39.6	40.2	40.3	40.4	40.5	40.8	41.0	41.2
GE 3000		33.4	36.8	41.4	43.8	44.2	45.3	45.9	46.4	47.1	47.3	47.4	47.5	47.8	48.1	48.3
GE 2500		37.1	40.7	45.5	48.3	48.8	49.9	50.6	51.1	51.9	52.1	52.2	52.3	52.5	52.8	53.1
GE 2000		43.0	47.3	53.0	56.1	56.6	58.1	58.9	59.4	60.3	60.5	60.6	60.8	61.0	61.3	61.6
GE 1800		44.0	48.3	54.2	57.4	57.9	59.5	60.3	60.8	61.8	62.0	62.1	62.3	62.5	62.8	63.1
GE 1500		48.2	53.5	60.5	64.1	64.6	66.5	67.4	67.9	69.0	69.2	69.3	69.5	69.7	70.1	70.3
GE 1200		50.5	56.1	64.3	68.2	68.7	70.8	71.7	72.3	73.5	73.7	73.8	73.9	74.2	74.5	74.7
GE 1000		52.3	58.3	68.2	72.5	73.1	75.6	76.6	77.2	78.6	78.8	78.9	79.1	79.4	79.7	79.9
GE 900		52.5	58.6	69.1	73.8	74.4	77.0	78.1	78.8	80.2	80.4	80.5	80.6	80.9	81.2	81.4
GE 800		52.8	59.1	70.1	75.3	76.0	79.0	80.2	81.0	82.6	82.8	82.9	83.1	83.4	83.7	83.9
GE 700		53.2	59.5	71.1	76.7	77.4	80.9	82.4	83.4	85.3	85.6	85.7	85.9	86.1	86.4	86.7
GE 600		53.2	59.6	71.5	77.5	78.4	82.4	84.2	85.6	88.5	88.7	88.9	89.2	89.4	89.7	89.9
GE 500		53.2	59.6	71.9	78.0	79.0	83.5	85.9	87.7	91.5	91.7	92.0	92.3	92.6	92.9	93.1
GE 400		53.2	59.6	72.0	78.2	79.2	84.0	86.7	88.6	92.8	93.1	93.4	93.9	94.2	94.5	94.7
GE 300		53.2	59.6	72.0	78.2	79.2	84.0	86.9	89.1	94.4	95.0	95.5	96.0	96.4	96.8	97.1
GE 200		53.2	59.6	72.0	78.2	79.2	84.0	86.9	89.1	94.8	95.5	96.0	96.7	97.4	98.2	98.8
GE 100		53.2	59.6	72.0	78.2	79.2	84.0	86.9	89.1	94.9	95.7	96.2	97.0	98.0	99.0	99.8
GE 0		53.2	59.6	72.0	78.2	79.2	84.0	86.9	89.1	94.9	95.7	96.2	97.1	98.0	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106140 STATION NAME: RAMSTEIN AB GERMANY

PERIOD OF RECORD: 74-83  
 MONTH: ALL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	26.7	28.4	30.8	31.9	32.0	32.7	33.2	33.4	34.1	34.2	34.3	34.5	34.7	35.1	35.4	
GE 20000	30.8	32.8	35.5	36.7	36.9	37.6	38.2	38.5	39.3	39.4	39.5	39.7	40.0	40.3	40.7	
GE 18000	31.0	33.0	35.7	36.9	37.1	37.9	38.4	38.7	39.5	39.6	39.7	39.9	40.2	40.6	40.9	
GE 16000	31.1	33.0	35.8	36.9	37.1	37.9	38.4	38.7	39.5	39.7	39.8	40.0	40.2	40.6	41.0	
GE 14000	31.2	33.2	36.0	37.1	37.3	38.1	38.7	38.9	39.7	39.9	40.0	40.2	40.5	40.8	41.2	
GE 12000	31.7	33.6	36.5	37.6	37.8	38.6	39.2	39.5	40.3	40.4	40.5	40.7	41.0	41.4	41.7	
GE 10000	33.5	35.6	38.5	39.8	40.0	40.8	41.4	41.7	42.5	42.6	42.7	42.9	43.2	43.6	44.0	
GE 9000	34.1	36.3	39.3	40.5	40.7	41.5	42.1	42.4	43.3	43.4	43.5	43.7	44.0	44.4	44.8	
GE 8000	36.7	39.0	42.3	43.7	43.9	44.8	45.4	45.7	46.6	46.8	46.9	47.1	47.4	47.8	48.2	
GE 7000	37.6	40.0	43.4	44.8	45.0	45.9	46.6	46.9	47.8	47.9	48.1	48.3	48.6	49.0	49.4	
GE 6000	38.0	40.4	43.8	45.2	45.5	46.4	47.0	47.4	48.3	48.4	48.5	48.8	49.1	49.5	49.8	
GE 5000	40.4	42.9	46.6	48.1	48.3	49.3	50.0	50.3	51.3	51.5	51.6	51.8	52.1	52.6	52.9	
GE 4500	43.8	46.5	50.4	52.0	52.3	53.3	54.0	54.4	55.4	55.6	55.7	55.9	56.3	56.7	57.1	
GE 4000	47.8	50.7	54.9	56.7	57.0	58.1	58.9	59.3	60.3	60.5	60.6	60.9	61.2	61.7	62.1	
GE 3500	51.2	54.4	58.9	60.8	61.1	62.3	63.1	63.5	64.6	64.8	64.9	65.2	65.5	66.0	66.4	
GE 3000	56.7	60.2	65.4	67.5	67.9	69.2	70.1	70.6	71.9	72.1	72.2	72.5	72.9	73.3	73.7	
GE 2500	58.9	62.6	68.1	70.3	70.7	72.1	73.1	73.6	74.9	75.1	75.2	75.5	75.9	76.3	76.7	
GE 2000	61.8	65.8	71.7	74.2	74.6	76.1	77.2	77.7	79.1	79.3	79.4	79.7	80.1	80.5	80.9	
GE 1800	62.5	66.6	72.6	75.1	75.5	77.1	78.2	78.7	80.1	80.3	80.4	80.7	81.1	81.5	81.9	
GE 1500	65.2	69.6	76.3	79.2	79.6	81.4	82.6	83.1	84.6	84.9	85.0	85.3	85.7	86.2	86.6	
GE 1200	66.4	71.0	78.4	81.5	82.0	83.9	85.1	85.8	87.4	87.6	87.8	88.0	88.4	88.9	89.3	
GE 1000	67.2	72.1	80.0	83.4	84.0	86.1	87.4	88.1	89.8	90.1	90.3	90.5	90.9	91.4	91.8	
GE 900	67.4	72.4	80.5	84.1	84.7	86.9	88.3	89.0	90.8	91.0	91.2	91.5	91.9	92.4	92.8	
GE 800	67.6	72.7	81.0	84.9	85.4	87.7	89.2	89.9	91.9	92.1	92.3	92.6	93.0	93.5	93.9	
GE 700	67.7	72.8	81.4	85.3	85.9	88.4	90.0	90.8	92.9	93.2	93.4	93.7	94.1	94.6	95.0	
GE 600	67.7	72.8	81.5	85.5	86.2	88.8	90.6	91.5	93.8	94.1	94.3	94.7	95.1	95.5	96.0	
GE 500	67.8	72.9	81.6	85.6	86.4	89.1	91.0	92.0	94.6	94.9	95.2	95.5	96.0	96.4	96.9	
GE 400	67.8	72.9	81.6	85.7	86.4	89.2	91.3	92.3	95.1	95.4	95.7	96.1	96.6	97.1	97.5	
GE 300	67.8	72.9	81.6	85.7	86.4	89.3	91.4	92.5	95.5	95.9	96.3	96.7	97.2	97.8	98.3	
GE 200	67.8	72.9	81.6	85.7	86.4	89.3	91.4	92.5	95.7	96.1	96.5	97.0	97.6	98.4	99.2	
GE 100	67.6	72.9	81.6	85.7	86.4	89.3	91.4	92.5	95.7	96.2	96.6	97.1	97.8	98.6	99.8	
GE 0	67.6	72.9	81.6	85.7	86.4	89.3	91.4	92.5	95.7	96.2	96.6	97.1	97.8	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 97626



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperatures
  - b. Daily minimum temperatures
  - c. Daily mean temperatures

**NOTE:** Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

**NOTE:** The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

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

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\Sigma X^2$ ), sums of values ( $\Sigma X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC  
 105147 PAMSTEIN AB GERMANY  
 STATION STATION NAME

# DAILY TEMPERATURES

02-33 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100							.1						.3
95						.4	1.3	.1					.2
90						1.4	4.8	1.3					.6
85				.2	1.3	4.0	12.7	5.9	1.1				.2
80				.5	5.3	14.8	25.5	23.4	5.3				5.0
75			.2	7.1	15.2	32.1	44.0	39.4	18.2	1.3			12.8
70			.7	5.7	29.4	52.4	64.5	61.3	39.3	4.9			21.9
65		.3	4.7	19.1	45.3	72.5	85.1	84.6	52.5	14.7	.4	.1	32.5
60		1.4	12.2	38.5	77.0	91.5	97.0	95.3	85.2	34.6	2.4		44.3
55	.9	5.1	24.5	57.5	88.5	98.6	100.0	100.0	95.7	51.1	11.7	2.0	64.2
50	5.2	15.7	45.3	75.6	97.4	99.9			99.9	83.8	70.2	10.0	74.2
45	19.9	35.1	70.0	92.9	99.5	100.0			100.0	95.7	55.1	25.0	74.8
40	38.2	55.5	85.2	99.3	100.0					99.4	77.3	44.1	83.5
35	55.9	77.3	95.9	100.0						100.0	73.4	71.5	92.1
30	64.4	92.0	99.5								99.7	90.1	97.2
25	73.9	95.9	99.9								100.0	96.8	99.0
20	97.3	98.9	100.0									99.4	99.7
15	99.3	99.8										100.0	100.0
10	100.0	99.9											100.0
5		100.0											100.0
MEAN	37.3	40.9	49.0	55.6	64.6	70.4	73.8	72.7	67.4	55.7	45.6	38.9	56.2
S D	7.931	8.553	8.539	8.275	8.733	8.236	8.705	7.579	7.460	7.516	7.256	7.785	15.310
TOTAL OBS	961	875	991	960	992	960	957	965	960	992	960	992	11555

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC  
 175142 RAMSTEIN AB GERMANY  
 STATION STATION NAME

DAILY TEMPERATURES

52-13

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MINIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70							.1						.0
65						.3	.9	.1	.2				.1
60					.5	3.7	11.3	7.4	1.2	.4			2.3
55					3.7	24.5	37.8	33.1	12.3	2.7			9.5
50		.1	1.1	3.0	19.5	52.9	74.2	58.0	37.3	12.0	2.2	.4	22.5
45	1.7	2.1	5.0	12.3	44.3	78.4	92.0	85.7	52.9	31.1	8.3	3.3	35.7
40	3.2	5.3	15.0	30.4	57.4	94.4	98.9	97.4	93.3	50.3	24.5	12.0	49.5
35	24.7	23.4	37.5	55.8	88.9	99.2	100.0	99.9	95.3	75.8	50.2	30.7	65.4
30	33.9	33.0	45.8	55.5	93.4	99.7		100.0	99.1	82.7	60.5	41.5	71.5
25	49.5	48.9	53.1	82.1	98.1	100.0			99.7	90.5	76.4	55.7	80.6
20	58.5	58.9	63.5	95.7	99.9				100.0	98.5	91.5	74.2	90.3
15	73.9	82.1	92.7	99.9	100.0					99.9	97.4	84.2	94.7
10	87.7	90.4	97.4	100.0						100.0	99.7	92.5	97.4
5	93.3	93.5	99.1								100.0	96.9	98.5
0	97.1	96.1	99.8									99.3	99.4
0	99.3	98.5	100.0									100.0	99.8
-5	99.3	99.5											99.9
-10	100.0	100.0											100.0
MEAN	27.4	27.5	31.7	35.9	43.0	47.5	52.6	51.5	46.4	40.1	34.6	29.6	39.2
S D	10.144	10.312	8.155	6.341	5.735	5.280	5.534	5.553	5.697	7.687	7.373	9.233	11.719
TOTAL OBS	951	875	991	960	992	960	957	955	950	992	960	992	11565

JOINT CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC  
 135143 RAMSTEIN AB GERMANY  
 STATION STATION NAME

# DAILY TEMPERATURES

52-33

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
30						.2	.3						.1
35					.1	.7	4.3	.3	.1				.5
40					.8	5.4	15.6	13.9	.5				2.3
45				.1	5.3	25.9	39.6	32.1	12.3	.5			9.3
50			.5	2.8	20.2	53.1	72.0	59.9	34.3	4.5			21.5
55		.2	1.5	10.3	45.7	82.9	95.6	84.0	66.8	16.9	2.1	.3	74.9
60	.9	1.3	9.2	35.5	75.2	97.0	100.0	99.7	91.2	45.3	5.4	1.5	97.2
65	5.5	13.5	32.1	59.5	93.9	99.9		100.0	93.7	72.5	27.5	13.1	59.6
70	21.2	27.1	53.1	83.0	99.3	100.0			100.0	92.3	54.1	29.1	72.5
75	45.1	54.5	81.9	98.3	100.0					99.5	80.3	52.5	84.6
80	59.4	76.0	92.7	100.0						100.0	94.3	75.1	92.4
85	82.5	89.5	98.3								99.4	88.1	96.5
90	92.1	93.9	99.5								99.9	95.2	98.5
95	95.5	96.9	100.0								100.0	99.0	99.4
100	99.2	99.1										99.9	99.9
105	99.9	99.8										100.0	100.0
110	100.0	100.0											100.0
MEAN	32.5	34.5	40.6	46.5	54.1	59.2	63.5	62.3	57.2	48.5	40.3	34.5	47.9
S D	8.592	8.555	7.112	6.475	5.343	5.901	5.001	5.239	5.590	6.327	6.593	8.053	12.330
TOTAL OBS	951	875	991	950	992	960	957	955	950	992	960	992	11565

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/440

**EXTREME VALUES**

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

136147 HAMSTEIN AB GERMANY  
STATION STATION NAME

52-83

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			52	78	79	94	100	94	71	63	52	50	
53	44	55	70	73	89	83	85	91	86	74	60	66	91
54	52	49	54	56	82	89	81	88	87	69	51	51	89
55	52	50	73	82	81	85	90	83	79	67	65	53	90
56	51	41	56	59	87	77	90	86	77	77	51	56	90
57	51	51	56	72	78	93	98	85	80	71	51	50	98
58	52	54	54	67	80	83	85	88	84	66	54	52	88
59	55	51	69	79	73	84	95	86	86	74	53	54	95
60	55	57	54	72	80	87	79	84	74	70	59	53	87
61	55	55	71	77	75	85	89	87	86	72	54	58	89
62	52	48	55	79	75	82*	87	91	87	77	59	50	91
63	40	42	57	68	77	79	85	85	78	56	55	45	86
64	42	57	56	74	83	91	95	89	84	70	58	53	95
65	49	41	55	67	81	86	84	82	77	58	59	55	86
66	55	59	56	69	81	87	82	91	82	79	55	52	91
67	55	57	63	71	85	90	92	88	81	75	60	52	92
68	50	50	76	85	79	85	92	79	76	72	68	47	90
69	47	50	56	72	88	81*	83*	68	72	70	62	40	88
70	47	49	56	76	74	86	85	88	76	72	61	52	88
71	51	48	55	77	82	75	89	93	82	75	57	55	90
72	55	57	59	73	78	84	89	84	75	69	66	53	89
73	46	50	71	65	80	84	87	87	87	69	57	46	87
74	53	55	73	75	80	82	86	96	80	51	60	55	96
75	55	55	57	75	78	85	89	91	82	52	59	48	91
76	50	59	54	75	87	98	98	87	77	71	55	48	98
77	51	53	68	69	72	81	87	84	80	75	64	55	91
78	40	59	54	68	77	84	89	84	78	78	53	55	89
79	39	50	53	68	87	85	87	84	81	77	54	57	87
80	46	54	51	70	72	81	85	88	79	64	59	48	88
81	46	48	56	72	82	82	84	85	81	65	59	48	86
MEAN													
S D													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-9 (OLA)

W (AT LEAST ONE DAY LESS THAN 24 OBS)



2

GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

125143 STATION RAMSTEIN AB GERMANY STATION NAME

52-33

YEARS

W40.E DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
52			*	23	24	29	35	38	40	31	25	20	10
53	12.	-1.	23.	23.	26.	34.	42.	40.	32.	25.	24.	22.	-1
54	1	1	24	23	31	40	40	43	35	32	19	24	1
55	13.	8.	12.	23.	31.	37.	43.	43.	32.	21.	17.	17.	8
56	1	-9	14	22	29	37	47	38	37	31	12	14	-9
57	5.	22.	19.	27.	25.	37.	46.	38.	32.	27.	25.	16.	5
58	9	15	7	19	33	39	42	41	39	30	29	13	7
59	9.	13.	23.	23.	33.	37.	45.	37.	31.	24.	27.	20.	9
60	-7	9	25	25	24	40	37	44	30	29	26	18	-7
61	11.	23.	22.	37.	33.	43.	39.	43.	38.	25.	16.	7.	7
62	10	11	15	28	27	31*	35	39	33	24	24		0
63	-5.	-8.	4.	24.	28.	42.	40.	35.	32.	26.	27.	4.	-8
64	5	12	14	27	35	39	41	36	33	24	25	12	3
65	19.	7.	5.	26.	29.	41.	45.	39.	33.	21.	15.	20.	5
66	5	23	18	26	31	38	44	38	32	24	17	20	0
67	8.	11.	22.	21.	25.	37.	43.	41.	39.	28.	23.	14.	8
68	-5	20	21	21	30	39	44	42	39	30	28	5	-8
69	15.	5.	19.	24.	33.	39*	42*	50.	34.	32.	19.	6.	5
70	19	4	12	24	32	35	39	40	32	24	23	8	4
71	-2	15.	3.	24.	37.	39.	39.	42.	30.	24.	15.	21.	-2
72	6	5	17	26	33	35	42	42	28	17	23	8	6
73	8.	17.	19.	24.	31.	37.	45.	39.	33.	23.	10.	0.	0
74	24	19	23	26	35	37	39	42	33	28	24	23	19
75	21	19.	19.	23.	30.	33.	42.	46.	44.	28.	17.	8.	8
76	3	17	10	23	30	37	44	42	35	24	21	5	3
77	21	15.	17.	23.	32.	39.	39.	44.	35.	33.	17.	15.	15
78	21	3	24	23	37	37	42	37	35	30	23	12	3
79	1	17.	21.	26.	29.	42.	37.	37.	34.	27.	21.	27.	1
80	9	21	21	28	33	41	41	34	39	30	21	9	9
81	12.	12.	27.	23.	23.	41.	45.	39.	37.	32.	18.	7.	7
MEAN													
S D													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

# (AT LEAST ONE DAY LESS THAN 24 OBS)



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

### EXTREME VALUES

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

105143 STATION RAMSTEIN AB GERMANY STATION NAME

52-83

YEARS

WOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
32	1	12	23	25	28	43	43	41	39	34	27	19	1
37	25	16	27	30	32	41	45	45	35	27	14	12	14
MEAN	3.5	11.5	17.6	24.9	30.3	38.2	42.0	43.3	34.4	26.8	20.8	13.2	3.7
S D	7.792	8.382	5.611	3.230	3.483	2.879	2.853	2.898	3.482	3.875	4.919	7.173	6.750
TOTAL OBS	961	875	991	960	992	960	957	965	960	992	960	992	11565

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

# (AT LEAST ONE DAY LESS THAN 24 HRS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

170140 KANSTEIN AB GERMANY 74-63 JAN  
STATION STATION NAME YEARS MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28		29-30	≥31	Dry Bulb	Wet Bulb
47/53		.1																1	1	
52/51		.9			.1	.1												10	10	2
56/49		.5	.4	.2	.3													15	15	7
47/47		1.1	1.4	.2	.3													28	28	7
45/45		1.9	2.1	1.0														46	46	11
44/43	.5	1.4	2.7	.8	.1													49	49	18
42/41		3.5	3.6	.1														16	66	50
37/39	.2	3.7	3.1	.3														42	62	35
37/37	.9	4.4	3.0	.3														5	30	76
35/35	.8	6.8	2.1															86	89	61
34/33	1.3	5.2	2.2															85	89	111
27/31	1.5	5.6	1.4															79	79	97
25/29	1.0	7.8	.3															42	32	95
23/27	1.2	4.3	.3															14	55	68
25/25	1.5	2.2	.4															39	41	49
24/22	.9	.9	.2															16	18	27
22/21	1.1	.5																11	15	19
20/19	1.6	1.4																28	29	24
17/17	.8	1.8																24	24	26
15/15	.2	.5																7	7	12
14/13	.2	1.5																15	16	16
13/11	.3	.5																8	8	6
10/7	.2	.9																10	10	11
7/7	.3	.2																5	5	7
5/5	.5																	5	5	5
4/3																				5
2/1																				5
0/-1																				1
TOTAL	14.9	57.9	23.2	3.0	.9													925	925	925
Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.	6305120	75864	82.3	9.485	925	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total								
Dry Bulb	1114252	30988	33.4	9.260	928		39.4					93								
Wet Bulb	990623	29215	31.6	8.573	925		46.7					93								
Dew Point	918351	26233	28.4	8.972	925	.1	61.7					93								

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

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

175140 AMSTEIN AB GERMANY 74-83 JSA  
STATION STATION NAME YEARS MONTH

PAGE 1 1500-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26		27-28	29-30	≥31	Dry Bulb	Wet Bulb
54/53		.1																1	1	
52/51		.5																5	5	5
50/49		.1	.1															5	5	5
48/47		1.6	.2			.1												25	25	8
46/45		2.5	3.0			.1	.3											45	45	13
44/43	.3	1.4	1.2			.1												34	34	19
42/41	.1	3.5	4.9			.3												1	61	32
40/39	.3	4.1	2.5			.4												5	69	46
38/37	.4	2.9	3.5			.1												4	64	75
36/35	.6	5.7	3.1			.2												9	99	70
34/33	.6	5.7	2.0															8	88	131
32/31	.2	5.7	.9															6	69	123
30/29	.4	7.2	.3															74	74	97
28/27	2.3	5.2	.3															72	73	69
26/25	.5	3.5	.7															2	44	45
24/23	.8	1.8	.1															29	45	39
22/21	.2	.1	.2															11	11	20
20/19	1.0	1.3																1	21	11
18/17	.5	1.9																2	22	36
16/15	.1	1.4																14	14	14
14/13		1.4																1	17	13
12/11	.4	1.0																1	13	9
10/9	1.0	.9																17	17	17
8/7	.2	.2																4	4	7
6/5	.3	.2																	5	5
4/3	.2																		2	3
2/1																				7
0/-1																				.
TOTAL	17.1	61.2	24.7	1.5	.4													927	93	927

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5346148	76233	42.2	9.772	927	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1082396	30500	32.8	9.402	930		47.6					97
Wet Bulb	955529	23779	31.0	9.822	927		43.0					93
Dew Point	801055	25835	27.9	9.355	927	.5	64.2					93

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/440

# PSYCHROMETRIC SUMMARY

0140      ANSTIN AB GERMANY      74-83      JAN      MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		>31	Dry Bulb	Wet Bulb
50/ 51		.7																2		
50/ 49		.3	.1															1		2
49/ 47		.9	1.5		.3													2	22	5
48/ 45	.1	7.8	1.5	.4	.3													5	25	77
44/ 43	.8	1.7	1.9	.3	.1													4	45	49
42/ 41		2.7	4.5	.2														4	74	23
40/ 39	.4	4.5	7.7															4	74	46
37/ 37	1.0	3.1	2.7	.1														4	64	96
36/ 35	.4	5.7	2.3	.1														3	73	76
34/ 33	1.1	5.0	3.0															3	43	178
32/ 31	1.0	5.7	1.5															4	64	111
30/ 29	.5	7.6	.3															7	74	85
29/ 27	2.7	5.8	.1															1	23	83
28/ 25	.8	3.1																7	37	34
25/ 23	.5	1.7																1	21	34
22/ 21	1.1	.5																1	19	22
20/ 19	1.5	1.5																2	29	19
18/ 17	.1	2.1																1	20	73
15/ 15	.1	1.5																1	15	16
15/ 13		.6																1	6	8
14/ 11	.4	.4																1	11	9
13/ 9	1.2	.9																1	19	15
9/ 7		.5																1	5	5
5/ 5	.5	.1																1	5	11
4/ 3	.4	.1																1	5	4
1/ 1	.1																	1	1	2
-1/ -1																				
-2/ -3																				
-4/ -5																				1
TOTAL	15.0	60.4	22.5	1.7	.4														933	926

Element (X)	ΣX'	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5340052	76130	32.2	9.364	926	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1375391	30343	32.6	9.587	930		41.3					93
Wet Bulb	961067	28643	30.9	9.011	926		49.1					93
Dew Point	795665	25647	27.7	9.605	926	1.1	64.0					93

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/940

# PSYCHROMETRIC SUMMARY

108140 HAMSTEIN AB GERMANY 74-83 MAY  
STATION STATION NAME YEARS MONTH  
900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL D.B./W.B.	TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20		21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb
51		.1	.1															7	7	1
47		.1	.2			.1												4	4	1
47			1.7	.1	.1													5	5	1
45	.1	3.5	.1	.3	.2													57	57	13
42	.3	2.4	2.3	.3	.7													4	54	19
41	.3	2.9	4.1	.9														76	7	41
37	.1	4.0	3.5															3	73	42
37	.9	3.5	1.6	.1														56	56	36
35	.4	5.4	3.6															7	7	56
33	1.2	6.3	3.5															11	101	68
31	1.7	4.4	1.7															5	65	74
29	.6	5.2	.2															5	65	95
27	3.2	4.3	.5															78	87	133
25	.1	2.1	.1															25	25	74
23	.6	2.3																27	27	54
21	1.7	1.1	.2															1	21	29
19	1.3	1.2																2	27	26
17	.4	1.5																13	19	18
15		1.5																15	15	38
13	.1	.5																5	5	15
11		.3																10	10	23
9	1.2	.4																15	17	22
7	.1	.3																4	4	5
5	.4	.3																7	7	5
3	.4																	4	4	5
1	.2																	2	2	1
-1																				
-3																				
-5																				
TOTAL	17.5	55.6	25.7	1.9	.5	.1												924	924	924

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	623623	75681	81.9	9.591	924							
Dry Bulb	110121	30733	33.3	9.515	924		39.7					39.7
Wet Bulb	980011	28923	31.3	8.994	924		48.8					48.8
Dew Point	809524	25888	28.0	9.552	924	1.5	62.5					64.0

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

GLOBAL CLIMATOLOGY BRANCH  
 METEOROLOGICAL  
 AIR WEATHER SERVICE 1400

# PSYCHROMETRIC SUMMARY

1 147 RAMSTEIN AB GERMANY 74-33 JAN 1200-1400  
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)													TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
55/55				.1																	
54/55		.2		.2		.1	.1														
53/54		.5	1.3	.2														15	17	1	2
52/54			1.1	.1	.3													15	15	8	1
51/47	.1	1.2	1.2	.5	.2													30	36	10	6
50/45		2.5	2.7	.4	.1													3	43	45	27
49/47	.3	1.3	2.5	1.2	.2													55	56	45	31
48/41	.5	3.2	4.3	1.4														2	32	61	41
47/39	.1	4.4	3.1	.2														15	74	58	17
46/37	.2	3.2	4.2	.1														8	87	39	67
45/35	.3	5.4	5.3															111	111	73	57
44/33	.2	3.7	2.6	.2														45	66	134	42
43/31	.3	2.2	2.2															57	57	86	71
42/29	.2	5.1	1.1															55	57	68	78
41/27	1.3	5.2	.5															44	64	63	146
40/25	.6	2.5																25	27	39	77
39/23	.6	1.3	.6															25	24	31	51
38/21	1.1	.3	.2															16	15	23	29
37/19	.3	.2																1	12	17	25
36/17	.1	1.1																11	11	16	18
35/15		1.1																17	17	12	16
34/13		.2																7	7	9	7
33/11		.2																5	5	2	14
32/9	.1	.2																5	7	2	2
31/7		.1																1	1	1	5
30/5		.1																1	1	1	2
29/3																				1	
28/1																					1
27/-1																					
TOTAL		2.2	33.8	4.7	.9	.1	.3											927	927	927	927

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	
Rel. Hum.	5957774	73697	79.5	10.389	927							
Dry Bulb	1258236	33272	35.8	8.534	927		29.9					97
Wet Bulb	1102593	31089	33.5	7.911	927		37.2					97
Dew Point	804896	27666	29.8	6.646	927	.3	57.1					93

USAFETAC FORM 0-26-5 (OL-2) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/NAAC

# PSYCHROMETRIC SUMMARY

100140 HANSTEIN Ab GERMANY 74-85 1300-2000  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
53		.1	.1	.1	.1													7	7	5															
49		.1	.1	.1	.1													1	1	1															
47		1.4	1.3	.4														1	1	9															
45		1.7	1.5	.7														1	1	14															
41	.1	2.0	1.7	.5	.1													1	1	43															
39		3.0	2.6	1.3	.7													1	1	49															
37		4.1	3.4	1.6														1	1	62															
35	1.1	3.5	2.7															1	1	75															
31	.1	7.0	5.2															1	1	103															
29	.5	5.7	4.1															4	4	172															
27	.1	3.3	2.1															4	4	99															
25	.5	4.5	2.8															5	7	71															
23	1.1	3.7	2.3															7	7	76	133														
21	.6	2.4	1.4															7	7	41	74														
19	1.1	2.6	1.4															10	11	17	64														
17	1.0	1.4	.1															11	11	25	27														
15	.1	1.0	.1															11	11	17	21														
13	.1	.9																11	11	9	14														
11	.1	.3																11	11	3	7														
9	.1	.1																11	11	3	7														
TOTAL	7.1	54.7	31.3	4.2	.7		.1											67		57															
Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	5955499	73731	79.5	7.921	927	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb	1235473	13034	35.5	8.175	927		38.7					47																							
Wet Bulb	1083827	30904	33.3	7.665	927		38.2					47																							
Dew Point	877359	27473	29.6	6.273	927		59.9					47																							

FORM 0 26-5 (OL A) 84-10C PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAO

# PSYCHROMETRIC SUMMARY

1-143 KAMSTEN AB GERMANY  
STATION STATION NAME

74-33  
YEARS

FEB  
MONTH

1957-1958  
HOURS (L. S. Y.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
1/ 43				1.1	0.7																																
2/ 41		0.2		0.4																																	
3/ 47		0.7																1.1																			
4/ 47		0.8	1.3															1.1																			
5/ 43	0.2	0.7	1.7															1.1																			
6/ 41	0.1	0.4	1.0															1.1																			
7/ 39	0.4	0.2																1.1																			
8/ 37	0.3	2.0	1.7	0.4														1.1																			
9/ 35	1.4	5.7	5.7															1.1																			
10/ 33	0.3	6.4	2.8		0.4	0.7												1.1																			
11/ 31	0.4	4.0	2.7	0.2														1.1																			
12/ 29	1.3	5.6	1.5															1.1																			
13/ 27	2.5	2.7	3.1															1.1																			
14/ 25	0.4	0.1	1.2															1.1																			
15/ 23	1.3	3.1	0.9															1.1																			
16/ 21	0.6	1.4																1.1																			
17/ 19	0.4	0.4																1.1																			
18/ 17	0.1	1.1																1.1																			
19/ 15	0.4																	1.1																			
20/ 17	0.1																	1.1																			
21/ 11																		1.1																			
22/ 7																		1.1																			
23/ 5																		1.1																			
Totals	12.0	59.1	125.3	26.4	0.5													46.0																			446

Element (X)	Z <sub>w</sub>	Z <sub>h</sub>	I	° <sub>A</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel Hum.	56:754	58772	91.3	7.715	946	< 0 F	> 32 F	> 67 F	> 73 F	> 80 F	> 93 F	
Dry Bulb	55251	27775	32.8	7.143	946		42.0					44
Wet Bulb	354387	26263	31.0	6.901	946		51.0					42
Dew Point	695655	23317	27.6	7.920	946		59.7					34

USAFETAC FORM 0265 (OL A) 12-53 (REV 5-56) USE PREVIOUS EDITIONS FOR THIS FORM AND QUALITY

2  
 CENTRAL CLIMATOLOGY BRANCH  
 AFSAFAC  
 AIR WEATHER SERVICE/MAAC

# PSYCHROMETRIC SUMMARY

10-187 RAMSTEIN AB GERMANY 74-83 YEARS 11-1967

0300-0600  
 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (°)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point															
07 51																																				
07 49																																				
07 47																																				
07 45																																				
14 43																																				
17 41																																				
17 39																																				
17 37																																				
17 35																																				
17 33																																				
17 31																																				
17 29																																				
17 27																																				
17 25																																				
17 24																																				
17 21																																				
17 19																																				
17 17																																				
17 16																																				
17 14																																				
17 13																																				
17 11																																				
17 9																																				
17 8																																				
17 7																																				
17 5																																				
17 4																																				
17 3																																				
17 2																																				
17 1																																				
17 0																																				
TOTAL		14.6	51.8	22.0	1.0																															

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

Element (X)	Σg'	Σg	Σ	Σ²	No. Obs	Mean No. of Hours with Temperature					Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	
Rel Hum.	5791677	67167	61.810	132	445						
Dry Bulb	910903	25931	31.4	7.465	846		46.5				46
Wet Bulb	317999	25527	30.2	7.510	846		55.3				54
Dew Point	657563	22647	26.8	8.518	846	.1	62.0				64

FEDERAL BUREAU OF SURVEY  
 U.S. DEPARTMENT OF COMMERCE  
 METEOROLOGICAL SERVICE

# PSYCHROMETRIC SUMMARY

STATION: PASSEIRN AB GERMANY  
 STATION NAME: PASSEIRN AB GERMANY

74-35

YEARS

553  
 MONTH

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
51	.1																																					
47		.1																																				
45			.1																																			
43				.1																																		
41					.1																																	
39						.1																																
37							.1																															
35								.1																														
33									.1																													
31										.1																												
29											.1																											
27												.1																										
25													.1																									
23														.1																								
21															.1																							
19																.1																						
17																	.1																					
15																		.1																				
13																			.1																			
11																				.1																		
9																					.1																	
7																						.1																
5																							.1															
3																								.1														
1																									.1													
TOTAL	13	57	42	20																																		

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_n$	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel Hum	5749261	69253	31.9	9.746	345							
Dry Bulb	371557	26584	31.4	8.156	845		46.7					4
Wet Bulb	400811	25177	29.8	7.817	845		55.9					4
Dew Point	550808	22326	26.4	8.813	846	.3	62.7					4

USAFETAC FORM 0 26 5 (OLA) 8-54 METEOROLOGICAL SERVICE OF THE U.S. AIR FORCE

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAG

# PSYCHROMETRIC SUMMARY

10140 HANSTEIN AB GERMANY 74-83 FEB 1900-1100  
STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

PAGE 1 1900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
47/58				.1														1	1																
47/51	.4																	3	3	3	3														
47/49		.1		.1	.1													3	7	1															
47/47			.4															3	5	1	1														
47/45		1.5	1.5	.7														3	43	14	4														
47/43		2.8	2.4															4	44	32	12														
47/41	.1	4.0	1.5	.1														4	49	50	36														
47/39		4.5	.5	.2														4	44	45	31														
47/37	.4	3.7	2.1	.2														4	34	46	29														
47/35	.2	5.2	4.4	.1														5	28	35	28														
47/33	.7	5.7	4.7	.1														1	41	75	67														
47/31	.8	4.1	1.8	.1														3	32	112	59														
47/29	.5	7.7	5.7	.5														7	27	94	54														
47/27	.2	9.7	7.4	.4														1	3	123	123														
47/25	.4	4.1	.5															4	46	95	66														
47/23	.1	2.7	.1															1	25	42	27														
47/21	.3	2.1																2	25	71	57														
47/19	.9	1.1	.2															1	12	27	5														
47/17	.4	.4																0	13	1	32														
47/15		.8																7	7	9	35														
47/13		.1																1	1		39														
47/11	.1																	1	1	2	24														
47/9		.5																2	2	1	2														
47/7		.1																1	1	1	7														
47/5																																			
47/3		.1																1	1		1														
47/1																				1	1														
47/-1																					1														
47/-3																					1														
47/-5																					1														
TOTAL	2.56	6.24	2.7	2.7	.2													46	44	94	846														

Element (X)	Z <sub>g</sub>	Z <sub>K</sub>	X	%	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5574716	58304	80.7	10.321	946	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb	55554	27719	32.3	7.423	946		41.5					44
Wet Bulb	352351	26149	37.9	7.225	946		52.0					54
Dew Point	591386	23128	27.3	8.364	946	.3	59.5					54

USAFETAC FORM 80 0 26.5 (OL A) 89-100 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE 7440

# PSYCHROMETRIC SUMMARY

125147 RAMSTEIN AB GERMANY 74-93 FEB  
 STATION STATION NAME YEARS MONTH  
 PAGE 1 1200-1400  
 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
59																		1	1																
55																		1	1																
53																		1	1																
51	.4	.7																2	2	2															
49			.4	1.3	.5													3	20	5	1														
47		1.7	1.5	.2	.1	.1	.1											30	35	6	1														
45		1.1	4.4	1.5	.5	.5												2	50	70	10														
43		2.7	1.7	.6	.1	.1												4	45	55	16														
41		3.0	2.4	2.4	.7	.1												2	62	75	41														
39	.1	3.3	3.7	.9	.7	.1												75	75	72	47														
37	.5	4.5	3.7	1.4	.2	.2												1	82	75	51														
35	.8	3.7	5.1	2.2														100	100	104	66														
33	.7	3.7	4.7	.5	.1													19	59	74	61														
31		2.5	3.5	.2														13	54	103	50														
29		5.0	3.5															12	73	71	63														
27	1.1	5.7	2.5															7	73	75	105														
25	.7	.9	.3															1	17	62	71														
23			.2																	13	57														
21	.2																			4	57														
19																				6	47														
17		.1																	1		24														
15																				1	11														
13																																			
11																																			
9																																			
7																																			
5																																			
3																																			
Totals	1.9	41.0	35.7	12.4	5.1	1.3	.1											445	46	345	245														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.	4310365	52745	74.3	13.564	845	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	1227330	31710	37.5	6.749	845		22.0					24
Wet Bulb	1036285	29121	34.5	6.224	845		34.9					14
Dew Point	789290	25022	29.6	7.568	845		53.5					14

USAFETAC FORM 0265 (OLA) 89-110 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
FOR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 176147 STATION NAME RAMSTEIN AB GERMANY YEARS 74-85 MONTH FEB 1970-17.0 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
53/ 59						.2	.1											7	7		
53/ 57						.2												2	2		
50/ 55						.1												2	2		
47/ 51		.5	.7	.7	.8	.4	.7										4	4	2		
50/ 44		.1	.2	.4	.0	.1	.4										2	2	7		
45/ 47		1.8	1.7	1.5	1.4	.2											5	5	1	5	
45/ 45	.1	2.1	4.4	2.1	1.1	.4	.1										4	4	57	14	
44/ 43	.1	2.7	1.7	1.7	1.7	1.1											77	77	75	15	
42/ 41	.1	2.7	2.2	2.4	1.7												71	71	74	43	
45/ 39		3.4	3.1	1.2	1.1	.4											7	7	57	57	
38/ 37	1.7	1.2	3.9	1.7	.5												12	52	28	67	
35/ 35	.2	2.5	5.7	3.5	.2												5	15	89	87	
34/ 33		2.7	3.1	1.5													5	5	95	54	
32/ 31	.1	2.7	1.9	.4													13	15	115	43	
32/ 29	.2	2.4	2.2	.5													4	15	71	67	
31/ 27	.2	2.1	2.5														1	1	45	14	
35/ 25		.1															1	1	41	57	
24/ 23																				78	
27/ 21																				1	
27/ 19																				47	
17/ 17																				7	
18/ 15																				4	
14/ 13																				22	
17/ 11																				7	
17/ 9																				1	
16/ 7																				1	
TOTAL	2.5	27.8	33.8	17.3	13.0	4.7	.8										446	46	346	945	

Element (X)	Z <sub>g</sub> '	Z <sub>g</sub>	I	σ <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	4159791	57743	68.5	15.4	846							
Dry Bulb	1475365	33981	40.2	7.3	846		13.3					84
Wet Bulb	1134977	30544	36.1	6.1	846		27.9					64
Dew Point	308967	25332	29.9	7.7	846		50.8					54

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



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
U.S. WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 140 RAMSTEIN AB GERMANY 14-50 FEB 1900-2000  
STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
57						.1												1	1																
55					.1	.1												2	2																
53					.5	.5												3	3																
51		.1	.1	.1	1.2	.1												2	2																
49			.2	.2	.2													1	11	1															
47		.5	.7	1.5	.4	.1	.1											2	20	11	1														
45		.7	2.4	1.5	.5	.2	.1											3	25	15	11														
43		2.7	3.4	1.4	.4	.1												5	28	42	11														
41	.3	4.9	2.9	1.9	1.3	.7												8	38	63	27														
39		4.2	3.1	1.1	.5													8	42	76	49														
37	1.4	2.7	3.9	1.9	.8	.1												5	45	87	71														
35	.2	3.2	6.3	1.5	.1													4	54	65	53														
33		3.3	4.3	1.4														6	76	95	46														
31	.4	3.1	4.3	.1														6	65	123	42														
29	.1	5.1	3.7	.1														7	75	96	53														
27	.2	4.1	3.1	.2														5	57	57	122														
25	.1	.6	.6															11	11	51	66														
23																				13	77														
21																				5	71														
19																					22														
17																					11														
15																					17														
13																					3														
11																					5														
9																					5														
TOTAL	3.0	35.9	38.7	13.5	5.9	1.8	.2											45	47	845	845														

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4527416	61406	72.7	13.984	845	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	127780	31876	37.7	6.405	845		27.6					84
Wet Bulb	1032996	29122	34.5	5.896	845		36.1					84
Dew Point	773347	24719	29.3	7.481	845		53.6					84

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

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

**PSYCHROMETRIC SUMMARY**

118142 HAMSTEIN AB GERMANY 74-81 FE  
 STATION STATION NAME YEARS MONTH  
 PAGE 21 3-23.0  
 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
32/54			.5		.5													7	7																
32/49				.3														7	7																
31/47			.5	.2														7	7	5															
31/45	.2	1.5	1.4	.7														3	3	11	7														
31/43	.1	2.5	1.8	.4														3	43	29	2														
32/41	.4	4.7	2.1	.2														57	37	42	3														
31/39	.1	5.4	1.6															70	70	48	33														
30/37	1.2	4.0	2.1	.4														5	65	79	6														
30/35	.9	5.7	5.6	.8	.2													17	104	66	65														
30/33	.2	5.4	3.7	.4	.1													7	97	79	63														
30/31	.1	5.1	2.2	.2														6	65	170	45														
30/27	.2	6.7	3.7	.2														7	92	61	67														
29/27	1.3	10.5	5.7	.2														14	140	110	111														
29/25	.6	3.0	.4															3	23	109	73														
29/23	.2	1.1																1	11	76	65														
28/21	.2		.6															7	7	14	7														
28/19	.2	.1																5	3	2	58														
18/17																					.7														
16/15		.1																1	1		16														
14/13																				1	13														
13/11																																			
13/9																																			
8/7																					1														
TOTAL	5.7	55.9	31.5	4.3	.8													45	545	545															

Element (X)	Z <sub>X</sub> <sup>1</sup>	Z <sub>X</sub>	X	e <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	5376919	66783	78.9	11.152	846	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1519962	28918	34.2	6.104	846		35.4					34
Wet Bulb	395387	27077	32.0	5.935	846		48.6					84
Dew Point	714066	23784	28.1	7.331	846		57.9					84

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





GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

15147 RAMSTEIN AB GERMANY 74-83 43  
 STATION STATION NAME YEARS MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
55		.1	.2	.1		.2												19	4	1															
57		1.4	.5	.8	.1													29	20	3	2														
51		.5	1.1	.1	.2	.1												10	20	21	6														
49		.4	3.2	.5														41	41	12	14														
47	.3	1.7	1.5	.7	.7	.1												40	47	71	13														
45	.5	3.3	3.4	1.5	.8													1	51	51	25														
43		3.1	5.1	.7	.2													6	25	52	38														
41		3.8	4.2	1.5	.1													60	59	55	24														
39	.2	5.3	3.7	1.1														100	102	72	43														
37	.4	4.4	2.2	.8														74	74	115	76														
35	.3	5.3	5.3	.4														171	155	85	112														
33	.2	3.7	3.4	.5	.5													15	76	104	65														
31	.2	3.5	1.5	.4														12	57	93	66														
29	.4	3.7	.4	.5														12	42	71	70														
27	.5	2.4	.6	.2														39	37	58	111														
25		1.3	.5	.2														3	20	74	64														
23		.5	.7																5	14	41														
21	.2	.2																4	4	14	24														
19		.5																3	7	4	11														
17		.1																1	1	4	11														
15																					7														
13																					1														
11																																			
9																																			
7																																			
5																																			
TOTAL	7.744	738.71	62	2.3	.4													433		935	933														
Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Num.	5515775	71419	76.511	827	933	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb	1471726	35364	39.1	7.213	933		16.9					47																							
Wet Bulb	1275907	33835	36.4	6.947	933		27.9					47																							
Dew Point	1026104	29930	32.2	8.356	933		45.0					93																							

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/AFAC

PSYCHROMETRIC SUMMARY

175140 RAMSTEIN AB GERMANY 74-80 4A7  
STATION STATION NAME YEARS MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
59/59				.1														1	1															
57/57			.1															1	1															
55/55			.5																															
53/53			.5	.1	.4													2	13	5														
51/51			1.7	1.4		.5												24	24	10														
49/49			.4	1.5	.2	.1												1	21	14	10													
47/47			1.7	1.5	.5													0	50	51	4													
45/45	.4	4.7	4.7	7.5			.7											102	102	34	57													
43/43	.2	1.9	3.9	1.1														43	53	53	33													
41/41		4.7	3.3	1.5														40	30	74	57													
39/39		7.3	2.4	.3	.2													45	45	21	42													
37/37	.5	4.4	3.3	1.7														46	36	59	77													
35/35		3.5	2.1	.3														65	65	23	92													
33/33	.5	4.1	2.5	.3	.1													72	72	79	82													
31/31	.1	5.4	2.5	.5	.2													42	32	102	53													
29/29	.8	5.3	.2	.1														45	35	91	69													
27/27	1.1	3.7	1.1															44	34	55	143													
25/25	.1	1.6	.5															1	21	45	58													
23/23		1.4	.9															24	24	26	67													
21/21	.2	.1	.1															4	4	14	23													
19/19	.1																	7	1	7	27													
17/17		.1																6	5	1	13													
15/15		.2																5	3	6	4													
13/13		.1																1	1	4	4													
11/11		.1																1	1	1	7													
9/9																					7													
7/7																					7													
5/5																					5													
TOTAL	4.2	52.5	33.1	9.0	.9	.3												930	930	930	930													

Element (X)	Σ X'	Σ X	X	%	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5837332	72919	78.4	11.370	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1372457	35007	37.6	7.575	930		26.2					93
Wet Bulb	1200868	32719	35.2	7.324	930		35.2					93
Dew Point	978350	29104	31.3	8.527	930		50.7					93

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

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

12140 WAMSTEIN AB GERMANY  
STATION STATION NAME

74-87  
YEARS

YEARS

MA -  
MONTH

800-9800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. - W.B.	Dry Bulb	Wet Bulb	Dew Point																	
59 / 59				.1																												4	1					
58 / 55		.2	.1																															1	1			
54 / 53		.5	.4	.3																														11	12	4		
52 / 51		1.2	1.4	.2	.4																													24	29	4	7	
48 / 47	.1	1.2	1.1	.2	.7																													25	27	17	7	
47 / 47	.1	1.0	1.1	.4																														25	27	23	10	
46 / 45	.4	3.2	3.7	1.2	.3	.7																												3	17	21	24	
44 / 45		2.5	3.4	.5																														2	32	42	26	
42 / 41	.1	3.7	4.2	1.4																														27	37	41	45	
40 / 39		5.7	3.7	.6	.5																													9	39	33	41	
38 / 37	1.2	4.2	2.1	.5																														15	70	106	80	
36 / 35	.4	4.9	1.2	.2																														10	32	100	103	
34 / 33	.5	5.1	1.7	.7																														10	73	81	74	
32 / 31	.1	4.2	1.4																															3	55	105	60	
30 / 29	.5	5.4	1.5	.3																														22	72	62	76	
28 / 27	1.4	4.7	1.5	.1																														23	73	72	145	
26 / 25	.2	1.5	.3	.1																														7	21	44	51	
24 / 23	.1	1.9	.9																															27	27	27	55	
22 / 21	.3	.9	.3																															1	17	24	26	
20 / 19	.2	.4																																5	5	13	27	
18 / 17	.1																																	2	1	5	25	
16 / 15		.5																																5	2		11	
14 / 13		.1																																1	1	4	17	
12 / 11		.5																																	1	2	5	8
10 / 9		.3																																	2	3	3	9
8 / 7																																						2
6 / 5																																						11
<b>TOTAL</b>		<b>5.2</b>	<b>25.4</b>	<b>131.7</b>	<b>5.9</b>	<b>1.3</b>	<b>.1</b>																											<b>720</b>	<b>930</b>		<b>90</b>	

Element (X)	Σ X <sup>1</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature																																
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																										
Rel. Hum.	5951532	73674	79.2	11.132	930																																	
Dry Bulb	1329460	34340	36.9	8.134	930				27.8																													
Wet Bulb	1153712	32173	34.6	7.719	930				36.7																													
Dew Point	958127	25715	30.9	8.774	930				52.2																													

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

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 U.S. WEATHER SERVICE/MAA

# PSYCHROMETRIC SUMMARY

128142 HAMBURG 83 GERMANY 74-97 MAR 1990-1100  
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
51/51					.1													1	1																
50/59			.1															1	1																
50/57			.1	.2														1	1																
50/55		.1	.7	.4	.2	.2												1	1	1															
47/55		.5	.5	.5	.1	.1												1	1	3															
47/51		1.0	2.3	.3	.6													1	1	11	3														
47/49		1.5	1.7	.3	.3													1	1	28	7														
47/47	.5	1.5	1.5	1.5	.2	.1												1	1	56	29														
45/45	.1	3.3	3.3	1.9	.4													1	1	45	51														
44/43	.1	2.5	3.3	2.2	.1													1	1	41	42														
42/41	.1	4.3	3.1	2.2	.2													1	1	69	47														
40/39	.2	7.4	4.2	2.2														1	1	130	43														
38/37	.5	4.7	3.2	.5														1	1	120	69														
38/35		5.9	3.0	.9	.1													1	1	92	108														
34/33	.5	3.3	2.5	.3														1	1	110	83														
32/31	.2	2.4	1.0	.4	.1													1	1	85	75														
30/29	.1	1.9	1.5	.5														1	1	45	89														
28/27	.1	2.2	.4	.1														1	1	41	116														
28/25	.2	.8	.5															1	1	22	56														
24/23		.7	.4															1	1	17	34														
22/21		.3																1	1	10	22														
20/19	.1	.2																1	1	6	15														
18/17																					1	17													
16/15		.7																				16													
16/13																						4													
13/11		.1																1	1	1	9														
10/9		.1																1	1	1	3														
7/7																						4													
5/5																						7													
TOTAL	2.9	45.6	34.1	14.3	2.9	.4												930	930	930	930														

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5572083	71130	76.5	11.910	930							93
Dry Bulb	1523368	35975	39.8	7.390	930		14.1					93
Wet Bulb	1310036	34294	36.9	6.993	930		23.3					93
Dew Point	1056118	30398	32.7	8.204	930		45.6					93

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



FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 6147 AMSTEIN AB GERMANY 74-63 MA 1955-1955  
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
67/50						.1	.2											2	7																
47/63					.1	.2	.1											3	7																
47/51				.1	.4	.2	.1											10	10																
50/59			.1	1.2	.4	.4	.5			.1								24	24																
57/57		.1	.1	1.1	.4	.7	.2			.2								21	27	1															
57/55		.1	1.1	.7	.5	.5	.1											2	22	9															
47/52	.1	.2	1.4	1.1	1.4	.5	.2											4	34	16	0														
47/51		.3	2.5	.8	1.3	.7	.4											3	37	10	5														
47/49		1.0	.5	2.2	1.0	.2	.1											47	47	25	5														
47/47		1.4	2.2	3.3	.5	.2	.2											7	74	41	37														
47/45	.1	2.4	5.3	5.1	2.6	.5	.3											11	151	73	67														
47/45		.5	5.7	4.3	1.4	.1												11	117	40	35														
47/41	.2	2.2	3.1	2.0	2.0	.4	.2											17	107	106	53														
40/39	.1	2.3	3.4	1.7	.8	.2												39	69	125	57														
37/37		1.7	2.5	1.2	.2	.7												1	51	120	97														
37/35	.1	1.9	1.3	.3	1.0													4	43	97	102														
34/33	.1	.5	.6	.4	.1													15	17	73	96														
32/31		.1	.4	.4														2	9	39	72														
27/27																		3	3	15	54														
27/27			.5															2	5	20	92														
27/25																					15														
27/23																					10														
22/21																					13														
22/17																					14														
18/17																					14														
18/15																					0														
14/13																					1														
12/11																					5														
10/7																					0														
7/7																					7														
7/5																					7														
TOTAL	.9	15.6	31.4	29.4	14.2	5.3	2.9	.4										930	930	930	930														
Element (X)	Σx'	Σx	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	4236253	61272	65.9	14.551	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	1947112	42062	45.2	6.939	930		1.7					73																							
Wet Bulb	1549227	37501	40.3	6.298	930		6.5					97																							
Dew Point	1130959	31481	33.9	9.385	930		37.7					93																							

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

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1140      RAMSTEIN AB GERMANY      74-83      93-  
STATION      STATION NAME      YEARS      MONTH  
1070-170  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																					
74/ 71											.1	.1																														
72/ 69											.1						.1																									
70/ 67							.1	.1																																		
68/ 65					.1	.1			.1																																	
64/ 63			.1			1.1	.6	.5	.2																																	
62/ 61				.1	1.1		.3	.2	.2																																	
60/ 59					.1	1.4		.4																																		
58/ 57			.1	.2		1.2	1.2	.2	.1	.1																																
56/ 55			.7	.2	1.0	1.2	1.3	.8	.5																																	
54/ 53			.1	1.2	.4	1.5	1.5	.1																																		
52/ 51			.5	1.8	1.0	3.0	.6	.6																																		
50/ 49			1.1	.3	2.0	.5	.5	.4	.2																																	
48/ 47		.1	1.5	1.3	2.9	2.4	1.1			.1																																
46/ 45		.1	1.2	3.0	7.1	6.3	1.7	.2																																		
44/ 43			1.0	3.0	7.9	7.3	.5		.1	.2																																
42/ 41		.3	.9	1.9	2.8	1.5	.3	.3																																		
40/ 39			1.3	2.4	1.1	.4	.5																																			
38/ 37			.5	1.7	.2	.9	.2																																			
36/ 35			.4	.5		.4																																				
34/ 33			.3	.2	.2	.3																																				
32/ 31																																										
30/ 29			.1	.1	.1																																					
28/ 27																																										
26/ 25																																										
24/ 23																																										
22/ 21																																										
20/ 19																																										
18/ 17																																										
16/ 15																																										
14/ 13																																										
12/ 11																																										
10/ 9																																										
8/ 7																																										
6/ 5																																										

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

USAFETAC FORM 0.26-5 (OL A) REVISI PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64



GLOBAL CLIMATOLOGY BRANCH  
 WFF/ETAC  
 AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

15142 RAMSTEIN AB GERMANY 74-83 MAR 1950-2000  
 STATION STATION NAME YEARS MONTH HOURS (L. S. Y.)

PAGE 1 1950-2000  
 HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
59/59								.1										1	1																
58/55							.2																												
57/53						.2	.1	.2	.1									11	11																
56/51					.2	.5	.3	.1										14	14																
55/59			.2	.4	1.4	.7	.2	.1	.2																										
54/57			.7	.9	.5	.5												1	21	2															
53/55		.1	.2	1.1	.5	.9	.1	.2	.1									24	29	7															
52/53	.1	.4	.8	.9	1.8	.5	.3											45	45	37	1														
51/51		.4	2.4	1.3	2.3	.5	.3	.1										63	63	71	7														
50/49		.9	3.1	1.5	.8	.9	.5											5	65	48	3														
49/47	.1	1.7	1.3	3.0	1.3	.5	.3											75	75	54	26														
48/45	.1	2.2	5.7	6.6	2.8	1.7	.3											172	178	95	65														
47/43	.2	1.7	3.7	3.7	2.7	.3												1	3	102	38	44													
46/41		1.9	2.4	3.4	1.5	.4	.2											13	93	126	51														
45/39		2.2	2.4	1.5	.5	.2	.1											5	65	120	71														
44/37	.4	.4	1.3	1.4	.2	1.1												49	49	104	88														
43/35		.5	1.4	.3	.4	.2												21	29	89	115														
42/33		.8	.5	.2	.8													1	21	55	76														
41/31		.7	.2	.1	.2															42	49														
40/29		.4		.2																5	17	65													
39/27				.2																	20	93													
38/25																					12	53													
37/23																					3	39													
36/21																						25													
35/19																						11													
34/17																						7													
33/15																						7													
32/13																						3													
31/11																						5													
30/9																						15													
29/7																						9													
28/5																						4													
27/1																						2													
Element (X)	Σ X <sup>2</sup>	Σ X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

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



FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 0140 74-83 433  
 STATION STATION NAME YEARS MONTH  
 KAMSTEIN AB GERMANY  
 PAGE 1 2100-2300  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
59					.1													1	1		
57			.1	.2	.2													2	2		
55		.1	.2	.3	.1	.1												1	1		
53		.3	.4	.9	.2													3	2	5	
51		1.6	2.2	.5	.5	.2												4	4	7	4
49		.5	2.2	.2	.1	.1												5	4	27	3
47	.2	1.5	2.4	1.6	.8	.1												2	2	52	27
45	.4	3.7	5.4	3.3	1.3	.1												1	2	132	61
43		1.7	5.5	1.7	.5													8	9	65	35
41		3.7	6.7	2.0	.4													11	11	26	62
39		4.9	3.1	1.3	.2													3	3	132	42
37	.5	3.4	2.7	1.4	.2	.1												7	7	110	45
35		2.9	3.4	1.8	.3													7	7	98	100
33		2.0	2.4	.6	.2													4	4	61	57
31		1.8	1.0	.5	.2													3	3	32	47
29		2.7	1.0	1.2	.2													1	1	43	61
27	.1	.9	.9	.2														1	1	42	107
25	.2		.4															5	5	20	49
23																				15	55
21																				4	16
19																					17
17																					11
15																					6
13																					4
11																					1
9																					1
7																					11
5																					1
TOTAL	1.5	31.3	41.5	19.1	5.8	.3												930	930	930	930
Element (X)	Σ X <sup>2</sup>	Σ X	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	5391200	67698	72.8	13.255	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total									
Dry Bulb	1631106	38454	41.3	6.651	930		10.0					93									
Wet Bulb	1375714	35248	37.9	6.543	930		20.6					93									
Dew Point	1374728	30586	32.9	8.506	930		40.3					53									

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

JUNIOR CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

17-143 HAMSTEN AB GERMANY 74-87 YEARS MONTH

PAGE 1 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
74/ 77																						
73/ 57																						
72/ 57																						
71/ 55																						
70/ 53																						
69/ 59																						
68/ 57																						
67/ 55																						
66/ 53																						
65/ 51																						
64/ 49																						
63/ 47																						
62/ 45																						
61/ 43																						
60/ 41																						
59/ 39																						
58/ 37																						
57/ 35																						
56/ 33																						
55/ 31																						
54/ 29																						
53/ 27																						
52/ 25																						
51/ 23																						
50/ 21																						
49/ 19																						
48/ 17																						
47/ 15																						
46/ 13																						
45/ 11																						
44/ 9																						
43/ 7																						
42/ 5																						
Element (X)	$\Sigma X^1$	$\Sigma X$	X	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb																						
Wet Bulb																						
Dew Point																						

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

1 5140 RAMSTEIN AB GERMANY 74-83  
 STATION STATION NAME YEARS MONTH

DATE ALL  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb
TOTAL	2.5	3.4	3.2	2.5	1.7	1.4	1.4	.5	.1	.3	.7							744	744	744
																	744	744		

Element (X)	$\sum x^2$	$\sum x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	39885141	532999	71.6	15.123	744							
Dry Bulb	13474903	31587	41.7	8.274	744		98.6	.9	.2			744
Wet Bulb	11113823	28243	38.0	7.276	744		167.2					744
Dew Point	847860	242752	32.6	8.562	744		347.7					744

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



FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

170147 TAMSTEIN AB GERMANY 74-83 APR 1974  
STATION STATION NAME YEARS MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL			TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
47/53					.1	.2															
46/51					.2		.1														
45/50			.1	.1	.1	.2															
44/50		.2			.3	.1	.1														
43/50	.1	.1	.1	.2	.3																
42/50	.1	.2	.2	.7	.3	.3															
41/51		1.2	1.4	.4	.2	.1															
40/49		.9	2.4	.9	.1																
39/47		1.1	2.2	.4	.4																
38/45		5.5	4.8	1.7	.1																
44/43	.4	2.4	4.0	1.5	.6	.1															
42/41	.1	3.5	2.9	1.4	.6																
41/37		5.5	2.9	.6	.2																
39/37	.1	5.8	4.3	.4	.1																
38/35	.4	5.9	2.3	.9																	
37/33	.1	3.3	3.3	1.1																	
32/31		2.4	1.1	.2																	
30/29		2.6	.9	.1																	
29/27	.1	1.3	.7																		
28/25																					
24/23																					
22/21																					
22/19																					
19/17																					
16/15																					
TOTAL	1.545	6.335	7.117	3.3	1.1	.1	.1														

878 898 898

Element (X)	ΣX'	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature									
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total			
Rel. Hum.	5422362	59000	76.8	11.594	898										
Dry Bulb	1558700	36890	41.0	7.019	898		9.9								
Wet Bulb	1340205	34199	38.1	6.490	898		18.2								
Dew Point	1090776	30574	34.0	7.453	898		37.7								

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAL

## PSYCHROMETRIC SUMMARY

13147 HAMSTEIN AB GERMANY 74-83 4-83  
 STATION STATION NAME YEARS MONTH

PAGE 1 0300-0500  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
58 / 58			.1				.1																													
57 / 57				.1	.2																															
56 / 55		.1		.3	.2	.2																														
54 / 53	.4	.5		.7	.1																															
52 / 51	.1	.2	1.1	.1																																
49 / 49		1.7	1.1	.1																																
47 / 47		2.9	1.4	.2	.1																															
45 / 45		5.0	3.2	.3	.2																															
44 / 43	.5	2.3	3.4	.4																																
42 / 41	.1	3.5	2.3	.4																																
40 / 39		5.2	4.1	1.3	.1																															
37 / 37	1.7	7.2	3.7	.6																																
35 / 35	.2	6.7	3.7	.2																																
34 / 33	.1	6.4	1.5	.3																																
32 / 31	.1	3.7	1.4	.1																																
29 / 29		5.2	1.7																																	
27 / 27	.2	6.6	1.7																																	
26 / 25		1.3	.1																																	
24 / 23	.1	.9																																		
22 / 21																																				
20 / 19																																				
17 / 17																																				
15 / 15																																				
TOTAL		3.6	3.0	27.4	4.7	1.7	.2	.1																												

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	5732437	72531	80.6	9.869	900	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Dry Bulb	1360410	34412	38.2	7.047	900		19.9					90
Wet Bulb	1205178	32378	36.0	6.700	900		28.4					90
Dew Point	1008022	29355	32.6	7.494	900		46.7					90

USAFETAC FORM 0-26.5 (OL A) AIR 84 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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 FEDERAL METEOROLOGICAL BUREAU  
 WASHINGTON, D.C.  
 WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

15140 HAMSTEIN AB GERMANY  
 STATION STATION NAME

74-87  
 YEARS

APR  
 MONTH

PA 0 F 1 1600-0830  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. Wet Bulb	Wet Bulb Dew Point																			
50 / 58																																						
49 / 57				.1	.4	.1																																
48 / 51		.3	1.2	1.1	.1																																	
47 / 49		.7	1.7	1.1	.2	.1																																
46 / 47		.1	2.1		.2																																	
45 / 46		.3	5.2	3.6	.2																																	
44 / 45		.2	1.7	2.0	.2	.2																																
43 / 41			4.6	3.2																																		
42 / 39		.2	6.6	1.2	.3																																	
41 / 37	1.6	7.3	3.4	.2																																		
40 / 35	.7	3.2	1.9	.5																																		
39 / 33	.3	6.2	2.1	.1																																		
38 / 31	.1	5.1	1.2																																			
37 / 29		7.7	1.3																																			
36 / 27	.3	5.7	.7																																			
35 / 25		1.6	.6																																			
34 / 23		1.4	.2																																			
32 / 21																																						
31 / 19																																						
30 / 17																																						
29 / 15																																						
28 / 13																																						
27 / 11																																						
TOTAL	4.9	65.9	25.7	2.9	.4		.3																															

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Rel. Hum.	5113248	73694	81.9	9.375	900							27
Dry Bulb	1314477	33917	37.6	6.983	900		23.3					27
Wet Bulb	1174282	31952	35.5	6.663	900		31.7					27
Dew Point	993894	29158	32.4	7.427	900		45.6					27

USAFETAC FORM 0-20-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 U.S. WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14-141 RAMSTEIN AB GERMANY  
 STATION STATION NAME

74-83  
 YEARS

APR  
 MONTH

PAGE 1 7200-1100  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																				
57/55				.1																													1	1							
54/53				.1	.1	.2	.2	.3																										5	5						
51/51			.1		.3	.3	.3																												5	5					
50/50				.3	.3	.5	.4	.2																												17	17	1			
57/57		.1		1.0	1.0	.2	.2																													27	27	2			
56/56		.2	.3	1.2	.9	.9	.2																													3	3	3	1		
54/53		.3	1.7	1.4	2.0	.5	.1																													3	30	14	3		
51/51	.1	.5	2.2	.3	1.2	.4	.3																													59	59	71	7		
50/44		1.7	2.4	1.7	.6	.4	.1																													2	12	10	6		
47/47	.1	2.2	2.1	2.4	.3	.4																														73	73	79	11		
46/45	.2	3.5	3.5	3.3	1.7	.6																														170	156	91	83		
44/43	.2	1.5	4.3	2.3	1.2	.1																														15	45	92	50		
42/41	.4	2.7	2.5	2.4	.3																															70	76	96	59		
41/39	.1	4.3	3.6	2.2	.2																															19	99	96	75		
37/37	.3	3.2	3.2	1.3																																73	77	103	87		
36/35	.1	2.3	2.3	.4																																47	47	93	112		
34/33	.3	1.2	1.1	.2																																23	25	55	87		
32/31		.8																																		7	7	46	60		
30/29		.5																																		5	5	14	55		
27/27		.2																																			2	2	4	104	
26/25																																									
24/23																																									
22/21																																									
20/19																																									
TOTAL	1.726	9.31	32.1	11.1	1.3	4.5	1.2	.5																													900	900	900	900	

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

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

120140 HAMSTEIN AB GERMANY 74-83 APR 1974  
STATION STATION NAME YEARS MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 75																		1	1		
71/ 72																		3	3		
72/ 71						.1												9	9		
73/ 69								.1	.4	.1								12	11		
67/ 67					.1	.2	.3	.3	.4									12	13		
68/ 65						.1	.4	1.0	1.6									21	22		
64/ 63				.4	.1	2.0	1.3	2.0	.4									13	15		
62/ 61			.2	.2	.2	.9	1.0	.8	.1									32	32		
63/ 59					.7	1.1	1.2	1.1	.7	.1								42	42		3
65/ 57		.1			.5	.6	1.3	1.7	.8	.2								47	42		9
60/ 55	.1	.1	1.1	1.1	.7	1.0	1.0	.5										66	66	19	5
61/ 53	.1	.4	.9	1.0	1.4	1.2	1.1	.4										73	63	63	5
62/ 51		.4	1.4	1.4	2.2	1.2	1.7	.1										77	77	82	5
60/ 49		.7	1.7	2.3	1.7	.5	.4											84	84	70	10
48/ 47		1.9	1.7	2.5	1.3	1.2	.7											87	87	67	29
48/ 45		.7	3.1	3.5	3.2	1.6												114	114	106	60
44/ 43		.3	2.0	1.8	2.3	.2												60	60	93	41
42/ 41	.1	2.1	1.2	3.0	.7													64	64	92	47
40/ 39	.1	1.5	2.2	.5	.7													50	50	73	91
38/ 37		.4	.4															3	4	94	90
36/ 35		.5		.2														3	3	77	89
34/ 33		.3																3	3	17	53
32/ 31																				13	47
30/ 29																					61
28/ 27																					74
26/ 25																					31
24/ 23																					47
22/ 21																					25
20/ 19																					13
18/ 17																					3
16/ 15																					1
TOTAL	.4	9.7	14.6	19.3	17.4	14.7	11.9	7.1	3.2	1.3	.7							910	900	900	
Element (X)	ΣX'	ΣX	X	°x	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Num.	3303211	50385	56.0	17.410	900	± 0 F	± 32 F	± 47 F	± 73 F	± 80 F	± 93 F	Total									
Dry Bulb	2467361	46523	51.7	8.474	900			3.6	.4			90									
Wet Bulb	1786080	39702	44.1	6.248	900		1.3					60									
Dew Point	1169860	31652	35.2	7.871	900		32.3					90									

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

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAO

# PSYCHROMETRIC SUMMARY

105140      RAMSTEIN AB GERMANY  
STATION      STATION NAME

74-83

YEARS

APR  
MONTH

PAGE 1      15 0-17 0  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL							
	0	1-2	3-4	5-6	7	8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
75/ 75					.1							.1	.1						2	4		
74/ 70												.3	.1						15	17		
72/ 71							.1	.1	.1			.4	.1						17	17		
70/ 59							.1	.7	.8	1.7	.1								2	32		
57/ 57					.1		.7	1.7	1.3	.9	.1								36	36	1	
55/ 55					.1	.3		.6	1.1	.2									23	23		
54/ 53			.1	.1	.3	1.3	1.7	1.9	.8										4	54		
52/ 51			.2		.2	1.4	1.7	1.8	.9										57	57		1
51/ 59			.2	.2	.3	1.1	1.1	2.1	.3										5	57	6	
50/ 57		.3	.3	.7	.2	1.7	1.0	1.2	.9										15	50	9	1
50/ 55	.1	.1	.2	1.1	.4	1.7	1.9	.9	.2										43	43	43	2
48/ 52		.2	1.1	1.2	1.9	.4	1.4	.4											40	60	56	9
48/ 51			1.4	1.5	1.5	.7	1.2	.2											42	62	96	6
48/ 49	.3	.1	.5	1.7	1.7	1.4	1.1	.2											55	58	75	14
47/ 47		1.7	1.4	.7	1.3	2.1	1.7												70	70	73	18
45/ 45	.1	1.6	2.7	4.1	3.0	2.5													108	125	96	71
44/ 43		.4	1.4	1.4	1.4	.3													45	45	26	41
42/ 41	.1	1.7	1.3	.9	.3														38	38	65	61
40/ 39		1.0	.8	.3	.3														29	29	26	83
38/ 37	.1	.1	.2																4	4	101	75
35/ 35	.1	.2																	3	3	49	95
34/ 33		.1																	1	1	11	51
32/ 31																					4	53
30/ 29																						58
28/ 27																						68
26/ 25																						41
24/ 23																						41
22/ 21																						33
20/ 19																						14
18/ 17																						8
16/ 15																						7
14/ 9																						1
TOTAL	.7	7.7	12.7	14.1	13.2	14.3	13.1	11.1	7.4	3.3	1.4	.7							900	900	900	900
Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.	2716467	46424	51.6	18.923	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90										
Dry Bulb	2697646	48504	53.9	9.048	900			10.1	1.6			90										
Wet Bulb	1859290	40526	45.0	6.190	900			.4	.1			90										
Dew Point	1142510	31218	34.7	8.153	900		34.6					90										

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

136147 RAMSTEIN AB GERMANY 74-85 1900-2000  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

PAGE 1 1900-2000  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 75																		1	1		
75/ 75										.1	.2	.2						2	4		
72/ 71								.1	.3	.4	.1							7	9		
72/ 69							.1	.4	.7	.7								14	14		
67/ 67					.1	.1	.5	.2	.5	.5	.1							21	23		
65/ 65					.1	.1	.3	.7	1.0	.3								22	27		
64/ 53		.1		.1	.5	1.4	1.3	2.0	1.3	.1								59	69		
62/ 61			.1	.2	.1	.3	1.2	1.2	.5									41	41	1	
59/ 59		.1	.1	.7	.9	1.7	1.5	2.2	.2									41	41	3	1
57/ 57	.1	.1	.3	.1	.4	.6	1.7	.5	.4									29	35	11	1
56/ 55		.2	.3	1.4	1.7	1.8	1.5	1.2	.1									69	69	19	3
54/ 53		.4	1.3	1.7	1.8	1.9	1.7	.9	.2									5	15	48	5
52/ 51		.1	2.7	1.2	1.4	.7	1.7	.2										43	63	72	9
50/ 49	.2	.2	.7	1.1	.3	.7	.9	.1										42	42	39	14
47/ 47		1.7	.6	1.9	1.0	1.3	1.0											41	61	91	19
46/ 45		2.4	3.2	2.6	4.4	2.3												141	141	91	56
44/ 43	.3	.4	2.1	2.2	1.7	.4												42	67	101	43
42/ 41		1.9	1.6	.9	1.0													47	47	89	59
40/ 39		1.3	1.4	.2	.4													1	31	71	74
38/ 37		1.1	.2	.3														14	14	106	79
35/ 35		.1	.1															2	2	61	75
34/ 33		.7																3	3	16	87
32/ 31																				11	14
30/ 29																					12
28/ 27																					17
25/ 25																					42
24/ 23																					47
22/ 21																					17
20/ 19																					17
18/ 17																					18
16/ 15																					6
TOTAL	.7	9.8	14.8	14.9	15.1	13.3	17.3	10.1	5.4	2.1	1.1	.3						900	900	900	
																		900		900	
Element (X)	Z <sub>X</sub> <sup>1</sup>	Z <sub>X</sub>	Z	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	2931106	48428	53.2	19.023	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F										
Dry Bulb	2535271	47147	52.4	8.532	900			0.1	.5			90									
Wet Bulb	1791298	39788	44.2	5.995	900		1.1					20									
Dew Point	1127402	30994	34.4	8.172	900		36.9					90									

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

176147 RAMSTEIN AB GERMANY 74-83 APR 2170-2300  
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
56/55													.1					1	1		
54/53					.1	.2	.4	.7	.1									10	10		
52/51				.4	.3	.7	.4	.1										10	15		
50/50			.7	.2	.7	1.7	.2	.3										1	21		
48/57		.1	.1	.1	.9	.7	.1											17	17	1	
54/55	.7	.4	.1	1.2	.8	1.4	.5											41	41	14	3
47/53		.7	1.1	1.2	1.3	.7	.2											44	44	11	1
42/51		1.1	2.4	1.7	1.7	.7	.1											65	65	20	11
43/49		.8	2.8	1.3	.7	.4	.4											5	55	61	7
44/47		1.3	2.7	2.1	2.7	.2	.1											1	61	66	22
40/45		4.2	5.1	4.1	2.4	.9	.1											12	102	95	61
44/43	.3	2.4	3.2	1.9	.8	.4												30	60	75	49
42/41		2.4	2.6	3.4	1.0	.1												5	85	104	74
40/39		4.9	3.3	1.0	.8													20	20	90	79
38/37	.9	2.8	2.9	1.2	.2													65	65	119	66
36/35		1.1	2.7	.7														40	40	72	50
34/33		.7	1.7	.4														22	22	69	76
32/31		.8																7	7	49	52
30/29		.4	.7															10	1	14	75
28/27																				6	100
26/25																				5	41
24/23																					2
22/21																					27
20/19																					17
18/17																					21
16/15																					7
TOTAL	1.4	23.4	30.7	21.2	12.8	7.4	2.3	.7										900	900	900	900

Element (X)	Z <sub>X</sub> '	Z <sub>X</sub>	X	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	4367585	51315	68.1	15.296	900							
Dry Bulb	1900331	40863	45.4	7.376	900		1.7					90
Wet Bulb	1530641	36707	40.8	6.107	900		7.5					90
Dew Point	1143563	31337	34.8	7.639	900		35.1					80

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



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

# PSYCHROMETRIC SUMMARY

170140 RAHSTEIN AB GERMANY 74-83 AD  
 STATION STATION NAME YEARS MONTH

PA 8 1 ALL  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
75/75											.1	.1									
74/73										.1	.1	.2						17	17		
72/71								.1	.1	.1	.2	.2									
70/69								.1	.1	.2	.4	.1									
68/67						.1	.1	.2	.3	.2	.1							12	70	1	
66/65				.1	.1	.1	.2	.3	.5	.1								1	1		
64/63		.1	.3	.1	.2	.3	.5	.3	.3	.1								11	210	2	
62/61			.1	.1	.3	.5	.5	.5	.2									11	11	4	1
60/59		.1	.1	.2	.4	.5	.6	.7	.1									13	198	13	7
58/57	.1	.1	.1	.3	.5	.4	.5	.3	.2									12	117	32	3
56/55	.1	.2	.3	.5	.6	.9	.8	.3	.3									27	297	137	14
54/53	.1	.5	.9	1.0	1.1	.6	.5	.2	.3									35	359	216	32
52/51	.1	.8	1.7	.9	1.0	.5	.5	.1										407	407	312	52
50/49	.1	.9	1.5	1.2	.5	.4	.4	.2										358	355	422	65
48/47	.3	1.8	1.5	1.3	.9	.7	.4											474	474	483	167
46/45	.1	3.7	4.7	2.5	2.3	1.0	.3											955	945	625	463
44/43	.2	1.5	3.7	1.5	.9	.3												532	532	657	367
42/41	.1	2.9	2.2	1.6	.5	.3												520	520	636	463
40/39	.1	4.2	2.4	.8	.4													513	513	699	543
38/37	.6	3.4	2.2	.5	.3													484	485	622	604
36/35	.1	3.5	1.5	.4														343	343	693	718
34/33	.2	2.3	1.7	.3														243	243	530	717
32/31	.3	1.6	.5	.3														184	184	385	497
30/29		2.0	.6	.3														187	187	218	536
28/27	.1	1.7	.3															155	155	196	788
26/25		.4	.1															32	32	137	362
24/23	.3	.3	.3															23	23	33	252
22/21																				16	232
20/19																				1	132
18/17																					67
16/15																					32
14/13																					1
12/11																					1
10/9																					1
Element (X)	Σ X'	Σ X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature															
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb																					
Wet Bulb																					
Dew Point																					

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



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

10143 RAMSTEIN AB GERMANY 74-83 MAY  
 STATION STATION NAME YEAR MONTH

PAGE 1 0000-0700  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb
77/59				.1													1	1		
67/67			.1				.1	.2									4	4		
66/55			.1														1	1		
64/53		.1	.1	.3	.1	.3											2	5	2	
62/51		.1	.2	.4	.4	.7											17	17	2	2
60/59				.2	.5	.1											2	2	2	2
57/57		.3	1.1	1.5	.5	.5	.1	.1									44	44	16	7
55/55		2.7	2.7	2.8	.3	.3	.1	.1									0	0	9	7
47/53	.1	2.4	5.5	2.5	.8	.1	.2										115	115	62	22
42/51	.1	.9	5.5	1.3	.6												105	106	79	40
47/49	.1	1.2	2.1	1.0	.3	.1											110	110	117	39
46/47	.1	5.6	3.1	.9	.2												1	91	147	83
45/45	.6	5.0	5.2	1.6	.3												125	125	132	172
44/43	.2	2.5	3.7														59	59	96	108
40/41		2.5	1.2	.6													40	40	76	95
40/39	.1	1.8	2.4	.2													42	42	63	65
37/37	.4	1.4	.7	.2													27	27	35	66
36/35	.2	1.9	.4														24	24	43	77
34/33	.1	1.4	.1														15	15	27	39
32/31		.5															5	5	16	25
30/29																			4	33
26/27																				2
26/25																				0
24/23																				4
TOTAL	2.0	35.8	47.2	14.1	4.3	1.7	.5	.4									930	930	930	930

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.	5739213	72283	77.7	11.370	930	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F	93
Dry Bulb	2248762	45320	48.7	6.526	930		.5	.6				97
Wet Bulb	1949479	42215	45.4	5.891	930		2.0					43
Dew Point	1567115	36891	41.8	6.624	930		9.3					93

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

16110 RAMSIEIN AB GERMANY 74-83 434  
STATION STATION NAME YEARS MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
54/ 53		.1	.1		.1		.1											4	4		
52/ 51		.1		.2		.1												4	4	2	
50/ 50		.1	.3	.3	.4													11	11	1	?
50/ 57		.4	1.	.8	.1													20	20	2	1
50/ 55	.2	2.3	2.3	1.4	.1	.3												61	61	11	4
54/ 53	.3	3.2	1.7	1.4	.3													65	65	46	15
51/ 51	.2	1.8	4.2	.5	.2	.2	.2											69	69	55	36
50/ 49	.2	2.2	4.5	.5	.1													69	69	59	41
48/ 47	.3	6.1	3.8	1.3	.2	.1												110	110	102	41
46/ 45	.5	9.5	7.1	1.3	.5													127	127	138	144
44/ 43		4.2	3.4	.2														71	71	99	94
42/ 41	.6	5.2	1.7	.9														76	76	125	98
42/ 39	.4	4.2	1.4															54	54	87	108
38/ 37	.2	2.7	1.4															40	40	57	75
36/ 35		2.8	.9															34	34	51	66
34/ 33		1.7	.5															1	21	39	56
32/ 31	.1	1.4	.5															17	19	32	35
30/ 29		2.2	.1															1	21	28	37
28/ 27		.3																	2	7	50
26/ 25																				1	12
24/ 23																					3
22/ 21																					4
20/ 19																					1
TOTAL		3.249	9.34	.9	8.7	2.2	.2	.2										930	930		930

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	6146233	74995	30.61	0.305	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1997010	42627	45.8	6.968	930		4.2					93
Wet Bulb	1768858	40116	43.1	6.432	930		6.6					93
Dew Point	1536569	37227	40.0	7.068	930		14.9					93

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

2

FEDERAL METEOROLOGICAL BUREAU  
 USAFETAC  
 AIR WEATHER SERVICE / MAC

PSYCHROMETRIC SUMMARY

125140 RAMSTEIN AB GERMANY 74-53 MAY 1950-1950  
 STATION MONTH HOURS (L. S. T.)

PAGE 1 2200-2800

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
50/57			.1															1	1						
47/53																				1					
52/51		.1		.2	.1													4	4		1				
52/50		.2		.5	.5													1	1		1				
54/57		.3	1.1	.5	.2													24	24	4	7				
50/55		2.7	1.1	1.2	.2	.7												44	44	14	6				
44/53	.3	2.4	3.7	1.7	.5		.1											1	51	45	15				
51/51	.5	2.3	4.2	.6	.1													74	74	57	37				
53/49	.2	2.6	5.1	1.5		.1												8	58	77	34				
45/47	.3	5.8	4.1	1.3	.4													110	120	117	53				
41/45	.2	2.5	5.5	1.4	.5													125	155	146	149				
44/42	.3	4.2	3.8	.5														73	73	98	117				
42/41	.2	4.5	2.4	.3														57	59	92	88				
41/39	.1	3.6	1.5															70	53	79	97				
38/37	1.1	1.2	1.6															35	35	72	79				
35/35		2.3	.5															73	33	36	77				
34/33	.1	1.3	.5															19	19	42	52				
32/31		.5	.3															8	8	16	31				
30/29		1.0	.1															18	18	17	35				
28/27	.2	.4																6	5	14	42				
26/25																					14				
24/23																					5				
22/21																					1				
TOTAL	3.2	46.7	35.3	17.1	2.7	.3	.1											970		930	930				

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5122102	74854	80.5	10.231	930	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb	2036411	43769	46.3	6.712	930		3.2					93
Wet Bulb	1301158	40508	43.6	6.290	930		4.9					73
Dew Point	1566247	37629	40.5	6.909	930		13.0					93

USAFETAC FORM 0-26-5 (OLA) JUL 54 REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

14142 HAMPTON AB GERMANY 74-83 MAY  
 STATION STATION NAME YEARS MONTH  
 PAGE 1 0900-1100  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
77/77						.1												1	1		
75/75							.1											1	1		
74/73				.1		.1	.2											4	4		
71/71				.1		.1	.5	.1	.1									14	14		
69/69				.1	.2	.1	.2	.1										10	10		
67/67				.1	.1	.2	.2	.1										11	12	2	
65/65				.2	.4	1.2	.2											20	25	1	
63/63		.1	.1	1.1	.2	3.2	.2	.5										10	63	3	
61/61		.1	.2	.5	2.5	1.5	.2	.1	.1									2	62	6	
59/59		.2	1.1	2.5	3.2	.2	.2	.2										72	79	25	1
57/57		.5	1.5	3.1	1.7	1.7	.3											77	77	18	5
55/55		.6	1.6	5.5	2.2	1.4	.2											107	107	63	20
53/53	.3	.3	3.2	2.4	1.6	.5	.1											3	83	102	25
51/51		2.4	5.0	1.5	1.4	.5	.1											110	110	102	32
49/49		1.4	3.0	1.4	.3	.2												71	71	143	50
47/47		2.9	2.2	.5	.4	.1												50	53	149	115
45/45		3.3	3.4	1.1	1.1													3	37	106	211
43/43		.3	1.3	.9														20	28	64	112
41/41		.6	1.2	.5	.1													24	24	41	86
39/39	.1	.5	.1	.1														5	9	41	76
37/37	.1	.9	.1															10	10	30	42
35/35		.1																1	1	13	43
33/33																				5	41
31/31																					14
29/29																					20
27/27																					17
25/25																					1
TOTAL		.15	.527	.722	.016	.011	.3	4.6	2.5	.4	.1							930	930		930
Element (X)	Z <sub>X</sub> <sup>2</sup>	Z <sub>X</sub>	X	%	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	4453353	63709	67.8	14.278	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total									
Dry Bulb	2792859	50513	54.3	7.281	930			4.8	.6			93									
Wet Bulb	2236790	45306	48.7	5.650	930			.2				93									
Dew Point	1777639	40217	43.2	6.437	930		6.6					93									

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

175143 PAMSTEIN AB GERMANY 74-83 MAY  
 STATION STATION NAME YEARS MONTH  
 PAGE 12 0-1430  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
84/ 87								.1			.1	.2						4	4		
82/ 81							.7	.1	.4		.1							4	7		
81/ 79							.1	.1	.3												
79/ 77							.1	.3	.5	.1	.3							12	17		
76/ 75							.5	.7	.6	.6	.4							27	27		
74/ 73						.2	.6	.7	1.4	.3	.1							3	3		
72/ 71					.7	.4	.5	1.2	1.1	.3	.1							21	26		
70/ 69						.7	1.3	1.3	.6	.1								1	21	1	
67/ 67				.1	.4	.7	1.4	.8	.4	.1	.1							12	19	4	
67/ 65				.2	.2	.7	1.4	.6	.9	.5								13	13	5	
64/ 67		.1	.1	1.2	1.4	4.0	2.0	1.6	1.3									17	107	16	
62/ 61		.1	.4	1.0	2.0	2.3	1.3	.6	.7									5	10	26	4
60/ 59		.3	.5	1.4	2.8	1.5	1.7	1.7	.1									4	24	35	4
58/ 57		.3	.6	2.6	2.0	2.3	.7	.2										2	42	51	9
56/ 55		.5	1.6	1.9	1.4	2.7	.4											10	30	45	21
54/ 53		.8	1.8	1.5	1.4	.5	.4											11	31	122	25
52/ 51		.8	2.0	1.0	.9	.6												45	49	123	45
50/ 49		.5	1.6	.2	.4	.3												22	22	109	59
47/ 47		.1	.5	.3	.3	.4												4	44	109	76
46/ 45		.6	1.3	1.2	1.1													4	44	97	192
44/ 43		.1	.5	.3	.1													10	10	34	121
42/ 41		.3	.4	.2														3	3	32	75
40/ 39		.4																4	4	22	
37/ 37																				19	
36/ 35																				2	47
34/ 33																					47
32/ 31																					
30/ 29																					
27/ 27																					27
26/ 25																					17
24/ 23																					1
TOTAL		8.1	12.2	13.2	15.3	17.5	11.7	10.0	7.6	2.9	1.1	.7	.2					930	930		930

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3153203	51843	55.7	16.832	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	3411287	55727	59.9	8.806	930			20.2	9.1	1.8		37
Wet Bulb	2461945	47531	51.1	5.933	930			.5				37
Dew Point	1750416	39808	42.8	7.072	930		3.9					37

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MA

# PSYCHROMETRIC SUMMARY

10-140    HANSTEIN AB GERMANY    74-83    MAY    1953-1959

PAGE 1    153-179  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B. Dry Bulb	TOTAL Wet Bulb Dew Point			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31																			
97/87												.1																								
97/85												.1													.1	.1										
97/83										.1		.4				.3																				
97/81												.4				.4																				
97/79												.4				.3																				
97/77												.3			1.4	.7								.2												
96/75										.4	.4	.6			1.1	.7																				
96/73											.4	1.5			.5	.6																				
95/71												1.1	1.4		1.2	.1																				
95/69						.2	.5		1.2	2.2	.6	.5	.8																							
95/67					.1	.7	1.1	.5	.6	.8			.7																							
95/65			.1	.3	.4	.7	1.3	1.4	.8	.1																										
94/63			.1	.5	1.2	4.6	1.3	2.7	1.3	.3																										
94/61		.1	.5	.4	1.4	1.3	2.7	1.7	.2	.2																										
94/59		.2	.5	2.4	1.9	1.5	1.5	.1																												
94/57		.5	.7	3.2	1.1	1.2	1.2	.4																												
94/55	.1	.3	1.0	2.3	1.0	1.4	.6																													
94/53		.3	1.1	1.5	.5	.1	.5																													
93/51		1.1	1.3	.4	1.2	.1	.2																													
93/49		1.1	1.4	.5	.2	.5	.2																													
93/47		1.4	.1	.5	.4	.4																														
93/45		.5	.4	1.2	.1	.7																														
94/43			.1	.2																																
92/41		.3	.1																																	
92/39		.1																																		
92/37		.2																																		
92/35																																				
92/33																																				
92/31																																				
92/29																																				
92/27																																				
92/25																																				
92/23																																				
92/21																																				
Element (X)	Z <sub>d</sub>	Z <sub>w</sub>	X	Q <sub>d</sub>	No. Obs.	Mean No. of Hours with Temperature																														
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																								
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

USAFETAC FORM 0-265 (OLA) RE-USE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/4AC

# PSYCHROMETRIC SUMMARY

174147 KAMSTEIN AB GERMANY 74-83 MAY  
 STATION STATION NAME YEARS MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
TOTAL	17	211	111	912	715	412	312	0	7.8	5.5	2.0	0	0					93			930														

Element (X)	ΣX'	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2929730	43479	53.2	17.892	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	2513466	56548	60.8	8.991	930			27.0	10.2	2.0		93
Wet Bulb	2469856	47630	51.2	5.728	930			0.1				63
Dew Point	1696856	39164	42.1	7.159	930		10.6					93

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

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

175147 RAMSTEIN AB GERMANY 74-53 MAY  
 STATION STATION NAME YEARS MONTH  
 PAGE 1 210-2700  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
72/72																		1	1		
74/75								.1										1	2		
74/73					.1	.1												1	1		
70/71					.1	.2	.1	.2		.1								7	7		
70/59			.1	.2		.2	.4	.3		.1								13	17		
67/57			.2		.3	.2	.4	.2		.2								17	17		
66/58			.1	.3	.4	.3	.2	.3	.1									25	25	4	
64/53		.2	.1	1.2	.4	2.3	.5	.5	.3									72	52	8	2
62/61		.1	.2	.7	2.7	1.6	.5	.3										60	60	6	7
60/59		.1	1.4	1.7	2.2	.9	.6	.3										55	69	15	3
59/57	.1	.5	2.7	3.0	1.5	.9	.2	.1										77	77	32	9
58/55		.9	2.7	4.5	1.4	1.7	.3											107	107	46	10
54/53		.9	3.3	3.1	1.2	.4	.6											39	67	107	17
52/51		2.2	5.5	2.4	1.1	.3	.2											115	115	98	47
50/49		1.3	2.7	.9	.3	.1												49	49	140	38
46/47	.3	4.3	2.3	1.5	.4	.3												5	59	152	100
46/45	.1	3.1	2.7	1.5	.5	.1												75	79	114	157
44/43		.4	.5	1.3	.1													25	23	69	132
42/41		1.3	.2	.4	.1													25	25	44	80
41/39		.9	.5	.2														14	14	75	57
38/37	.2	.8	.1															10	10	29	62
35/35	.1	.5	.1															7	7	17	43
34/33		.1																1	1	9	43
32/31																				1	27
30/29																					23
28/27																					25
26/25																					5
24/23																					3
TOTAL		217.4	27.7	23.1	13.1	7.4	5.5	2.6	.6	.4								930	131	930	930

Element (X)	Σx'	Σx	Σ	Σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4517565	63271	68.0	15.143	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2749785	50105	53.9	7.359	930			4.2	.5			93
Wet Bulb	2205845	44973	48.4	5.780	930			.1				93
Dew Point	1750194	39938	42.9	6.856	930			8.1				92

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

175142 RAMSTEIN AB GERMANY 74-83 MAY  
STATION STATION NAME YEARS MONTH

PAGE 1 ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL D.B./W.B.	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22		23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb
87/87																		4	4	
85/85																		6	6	
84/83																		19	19	
82/81																		27	27	
80/79																		32	32	
79/77																		71	71	
78/75																		57	57	
74/73																		164	164	
72/71																		141	141	
70/69																		164	164	3
66/67																		144	144	11
65/65																		195	195	27
64/63																		468	468	56
62/61																		384	384	116
60/59																		437	437	167
58/57																		490	490	331
56/55																		597	597	416
54/52																		588	588	746
52/51																		613	613	774
50/49																		496	496	901
48/47																		578	578	977
46/45																		728	728	877
44/43																		285	285	539
42/41																		255	255	436
40/39																		175	175	375
38/37																		125	125	266
36/35																		99	99	166
34/33																		56	56	120
32/31																		32	32	67
30/29																		39	39	47
28/27																		8	8	21
26/25																				1
24/23																				
22/21																				
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature														
Rel. Hum.						$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	Total								
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAAC

# PSYCHROMETRIC SUMMARY

100140 RAMSTEIN AB GERMANY 74-53 MAY

STATION STATION NAME YEARS MONTH ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
TOTAL	1.4	23.4	24.7	14.4	7.6	9.9	6.2	4.0	3.1	2.1	0	0.3	0.1	0				744		744						
																		744		744						
Element (X)	ΣX'	ΣX	X	X	No. Obs.	Mean No. of Hours with Temperature						Total														
Rel. Hum.	35304882	497424	66.9	18.508	744	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	744														
Dry Bulb	22417547	401669	54.0	9.922	744		7.9	79.2	34.3	6.2		744														
Wet Bulb	17427363	356523	47.9	6.789	744		13.6	1.4				744														
Dew Point	13457919	312101	41.9	7.010	744		81.5					744														

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

STATION: RAMSTEIN AB GERMANY YEARS: 74-83 MONTH: July

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
77/ 77																					
74/ 73						.1	.2	.1										4	4		
72/ 71					.2																
70/ 69					.1	.3	.1														
68/ 67			.5	.7	.7	.7												11	11		
66/ 65		.6	.6	.6	.2													17	17	4	
64/ 63		4.2	2.3	4.2	.7													107	107	15	7
62/ 61	.1	2.2	3.0	2.8	.2	.1												64	64	57	23
60/ 59	.4	2.7	5.4	2.2	.2													99	99	62	43
58/ 57	.7	4.7	5.2	2.1	.3													117	115	128	50
56/ 55		4.3	3.6	2.7	.1													109	103	179	87
54/ 53	.4	3.3	4.2	2.0	.2													92	97	119	125
52/ 51	.1	2.3	5.1	.3	.4	.1	.1											78	85	75	133
50/ 49	.2	2.8	2.9	.1	.1													65	65	99	64
48/ 47	.3	4.3	.3	.3	.6	.1												54	58	100	77
46/ 45	.3	3.1	.2	.4	.2													39	39	61	134
44/ 43	.2	1.0		.3														14	14	35	71
42/ 41		.2		.5														7	7	19	40
40/ 39				.1														1	1	4	17
38/ 37			.1															1	1	6	5
36/ 35			.1															1	1	4	5
34/ 33																				2	7
32/ 31																				1	7
30/ 29																					4
28/ 27																					0
26/ 25																					0
TOTAL	2.2	36.2	35.7	18.8	4.3	1.7	.7	.1										900	900	900	900
Element (X)	Z <sub>H</sub> <sup>1</sup>	Z <sub>H</sub>	X	°A	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	5388519	72195	80.2	10.408	900	≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	2356725	50405	56.0	6.128	900			2.4	.6			900									
Wet Bulb	2526308	47398	52.7	5.788	900		.1					900									
Dew Point	2273436	44848	49.8	6.553	900	2.2						900									

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

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

15147 HAMSTEIN AB GERMANY 74-53 JUN  
STATION STATION NAME YEARS MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
59			.1	.1	.1													3	3		
57			.1	.2		.1												4	4	1	
55		.1	.1		.2													4	4	1	1
53	.1	1.2	.3	1.7	.1													1	31	5	3
51	.1	3.3	2.3	1.4	.1													6	56	10	5
59		2.4	4.2	1.1														7	70	35	24
57	.7	3.4	5.7	1.4														8	98	73	38
55	1.2	6.1	4.3	2.3	.3													12	126	95	65
53	.3	5.6	3.9	.3														14	134	133	88
51	.8	4.3	3.9	.7														16	86	102	123
49	.4	3.2	3.6	.2														17	67	95	83
47	.1	5.7	1.1															21	71	97	81
45	.1	8.7	1.4	.4	.1													21	91	92	148
43	.3	2.6	.7	.6														21	41	64	84
41	.5	1.1	.2	.7														23	23	35	73
39	.4	.6	.4	.4														17	17	21	37
37	.1	.1	.1	.1														4	4	10	13
35			.3															3	3	10	14
33			.2															2	2	5	5
31																				4	2
29																				2	3
27																					1
25																					4
23																					4
21																					2
TOTAL	5.3	49.7	32.7	11.4	1.3	.1												900	900	900	900

Element (X)	Σx'	Σx	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	6351239	75167	83.5	9.377	900	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2543461	47558	52.8	6.302	900			.7				90
Wet Bulb	2307805	45247	50.3	6.062	900		.6	.1				90
Dew Point	2106367	43121	47.9	6.699	900	2.5						90

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



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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

175140 RAMSTEIN AB GERMANY  
STATION STATION NAME

74-83  
YEARS

MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb		Dew Point		
75/ 75																				1	1		
74/ 73						.1														1	1		
72/ 71							.1													1	1		
70/ 59					.1															1	1		
68/ 57			.4		.2																		
66/ 55		.1	.2	.4	.1																		7
64/ 63		1.3	.9	2.3																45	45	3	6
62/ 51		3.0	3.4	1.6	.1															73	73	24	7
60/ 59	.2	2.4	4.8	1.4	.3															3	3	50	51
58/ 57	.2	4.0	4.9	1.1	.2															102	102	73	31
56/ 55	.2	6.4	5.7	2.7	.4	.1														134	134	94	83
54/ 53	.6	3.3	4.3	1.2	.1															6	86	130	86
52/ 51	.7	3.9	5.0	.2																6	96	108	115
50/ 49	.3	2.7	3.4	.2																60	60	106	72
48/ 47	.4	6.0	1.0	.1	.1															69	69	109	95
46/ 45	.2	5.9	1.1	.7																71	71	85	170
44/ 43	.2	1.2	.2	.5																0	20	37	79
42/ 41	.4	1.7	.1	.5																25	25	31	55
40/ 39	.1	.2	.3	.2																5	6	17	25
38/ 37	.1	.2	.3																	6	6	6	9
36/ 35			.1	.1																2	2	2	5
34/ 33			.0																	2	2	5	7
32/ 31																						1	4
30/ 29																						3	6
28/ 27																							7
26/ 25																							4
24/ 23																							2
22/ 21																							2
TOTAL	3.9	43.7	36.9	13.6	1.9	.3														900	900	900	900

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	6154763	74005	82.2	9.353	900	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2534787	48374	53.7	6.216	900			1.0	.2			90
Wet Bulb	2361940	45796	50.9	5.932	900		.4					90
Dew Point	2143679	43525	48.4	6.566	900		2.5					90

USAFETAC FORM 0-26-5 (OL A) 1 MAR 64 REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

174142 RAMSTEIN AB GERMANY

74-83

YEARS

MONTH

PAGE 1 1970-11-0  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
67/89																	.1	1	1				
68/87																	.1	1	1				
69/85									.1	.1													
70/81								.1	.4														
71/77							.1	.2	.2														
72/77							.2	.7	.2														
73/75						.1	1.0	.4	.1								2	22					
74/73					.7	1.1	1.1	.1	.1								24	24					
75/71				.2	1.4	.9	1.2	.1									31	30					
76/69			.3	.2	2.2	1.7	.2			.1							51	41	1				
67/67			1.0	.4	2.0	.2	.4	.1									3	7	7				
65/65		.2	1.7	2.7	1.2	.6	.6	.1	.2	.1							66	66	29				
64/63		1.7	2.7	3.1	4.3	2.7	.1	.2									111	141	74	7			
62/61		.7	3.1	3.8	2.7	.3	.2	.1	.1								2	92	60	38			
63/59		.9	3.3	3.3	1.2	.4	.3										17	90	69	43			
63/57	.3	.9	2.7	3.5	.7		.1	.1									17	77	132	62			
66/55	.7	.8	2.1	3.9	1.0	.4	.1										77	77	114	112			
64/53	.1	.8	2.1	2.5	.4												14	54	78	104			
62/51		.7	2.7	.5	.2	.1											35	35	77	95			
60/49		.4	1.6														13	18	60	75			
67/47		1.1	.2	.4	.3												17	19	67	93			
65/45				.2													3	2	75	105			
64/43					.1												1	1	5	63			
62/41																			2	32			
65/39																			4	5			
63/37																			1	11			
66/35																							
64/33																							
62/31																							
76/29																							
77/27																							
TOTAL	.7	7.8	24.7	31.4	17.4	8.3	5.8	2.6	1.1	.9		.2							899	899	899		
Element (X)	Σ x <sup>1</sup>	Σ x	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature																	
Rel. Hum.	4351318	61484	68.4	12.765	899	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total											
Dry Bulb	3476732	55546	61.8	7.059	899			18.4	7.0	1.3		90											
Wet Bulb	2912622	50036	55.7	5.559	899			.8				90											
Dew Point	2354575	45649	50.8	6.387	899		1.2					90											

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

FEDERAL BUREAU OF SURVEY  
 NATIONAL METEOROLOGICAL SERVICE  
 WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: 1414 RAMSTEIN AB GERMANY STATION NAME: 74-83 YEARS: MONTH: 12 1943 HOURS (L.S.T.): 1430

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point																				
94/93																																	4	4							
92/91																																		3	3						
90/89																																		3	3						
88/87																																			2	2					
86/85																																				1	1				
84/83																																				2	2				
82/81																																					2	2			
80/79																																					4	4			
78/77																																					4	4			
76/75																																									
74/73																																									
72/71																																									
70/69																																									
68/67																																									
66/65																																									
64/63																																									
62/61																																									
60/59																																									
58/57																																									
56/55																																									
54/53																																									
52/51																																									
50/49																																									
48/47																																									
46/45																																									
44/43																																									
42/41																																									
40/39																																									
38/37																																									
36/35																																									
34/33																																									
32/31																																									
30/29																																									
28/27																																									

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_X$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb												
Wet Bulb												
Dew Point												

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

NATIONAL CLIMATOLOGY BRANCH  
 AFSSAFETAC  
 AFSS WEATHER SERVICE/ZMAC

# PSYCHROMETRIC SUMMARY

110147 HAMSTEIN AB GERMANY  
 STATION STATION NAME

74-83  
 YEARS

YEARS

JUL  
 MONTH

PA 11

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL											
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point																								
7/25	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	5	90	90	90									
TOTAL	0	7.4	11.5	19	117	117	117	7	8.2	1.6	4.2	1.7	0	0	0.1	0.2																													
Element (X)	Z <sub>X</sub> <sup>1</sup>	Z <sub>X</sub>	X	%	No. Obs.	Mean No. of Hours with Temperature										Total																													
Rel. Hum.	3110112	51163	56.9	14.954	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F						90																												
Dry Bulb	4127135	50437	67.2	8.739	900			41.7	25.8	7.4	.4						90																												
Wet Bulb	3020369	51875	57.6	5.810	900			4.8									90																												
Dew Point	2321729	45303	50.3	6.780	900		1.8										90																												

USAFETAC FORM 0-26-5 (OL A) REVISED 1974 EDITIONS OF THIS FORM ARE OBSOLETE

# PSYCHROMETRIC SUMMARY

120141 PASSEIRIV AS GERMANY STATION  
 STATION NAME

74-81 YEARS

JULY MONTH  
 1000-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31																		
97																																1	1		
95																																1	1		
93																																4	4		
91																																3	3		
89																																2	2		
87																																1	1		
85																																1	1		
83																																2	2		
81																																15	15		
79																																2	2		
77																																3	3		
75																																4	4		
73																																2	2		
71																																1	1		
69																																1	1		
67																																18	18		
65																																5	5		
63																																5	5		
61																																171	131	101	24
59																																7	6		
57																																69	69	102	28
55																																4	4		
53																																4	4		
51																																41	41	24	
49																																2	2		
47																																44	44	92	1
45																																2	2		
43																																24	24	1	
41																																1	1		
39																																			
37																																			
35																																			
33																																			
31																																			
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.			Mean No. of Hours with Temperature						Total																					
Rel. Hum.							≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 44 0-26.5 (OL. A) REVISED WEEKLY EDITIONS OF THIS FORM ARE OBSOLETE



FEDERAL BUREAU OF SURVEILLANCE  
LABORATORY  
SERVICEL/MAC

# PSYCHROMETRIC SUMMARY

1 147 - AMELIN AB STATION  
STATION

74-5

YEARS

MONTH

PAGE 1 1950-2000  
HOURS 15 Y

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.W.B.	Dry Bulb	Wet Bulb	Dew Point			
67/77																																							
67/77																																							
67/77																																							
67/77																																							
67/77																																							
67/77																																							
71/77											.4																												
71/75							.4		.7		1.0		1.7		.4																								
71/77							.4		.4		2.1		.4		1.0																								
71/71							.7		1.0		2.1		1.4		.4																								
71/59					.8		1.0		.4		2.1		1.3		.8																								
59/57		.1			.1		.8		1.7		2.3		.7		.2																								
59/55		.1			1.0		.2		2.2		1.7		2.0		.5		.2			.2																			
59/53		.1			1.7		.7		2.2		2.7		1.7		.7		.3																						
59/51	.1		.7		.7		1.7		3.0		1.3		.2				.1																						
59/59	.1		.6		.7		.6		2.3		.3																												
59/57		.1		.7	.2		1.3		.1		.1		.2																										
59/55		.1		.9	1.4		.5		1.1		.2																												
59/53		.1		.7	.5		.1		.3																														
59/51		.7		.7	.1																																		
59/49		.7		.1	.2																																		
59/47																																							
49/45																																							
49/44																																							
49/41																																							
49/39																																							
49/37																																							
49/35																																							
49/33																																							
49/31																																							
49/29																																							
Element (X)	Σg'	Σg	Σ	°a	No. Obs.	Mean No. of Hours with Temperature						Total																											
Rel. Hum.						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F																												
Dry Bulb																																							
Wet Bulb																																							
Dew Point																																							

USAFETAC FORM 0265 (OLA) 1950 WEATHER INSTRUMENTS OF THIS MODEL ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 THE WEATHER SERVICE/AFAC

# PSYCHROMETRIC SUMMARY

1 0147 HANSTEIN AB GERMANY 74-33 JULY  
 STATION STATION NAME YEARS MONTH  
 PAUF 14 J-2000  
 HOURS 15 T

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. - W.B.	Dry Bulb	Wet Bulb	Dea-Point												
74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.0	74.0	0.0												
75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	75.0	0.0												
76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0	76.0	0.0												
77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0	77.0	0.0												
78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.0	78.0	0.0												
79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	79.0	0.0												
80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	80.0	0.0												
81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.0	81.0	0.0												
82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	82.0	0.0												
83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0	83.0	0.0												
84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0	84.0	0.0												
85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.0	85.0	0.0												
86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.0	86.0	0.0												
87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.0	87.0	0.0												
88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	88.0	0.0												
89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.0	89.0	0.0												
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0	90.0	0.0												

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	I	O <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 60 F	61-70 F	71-80 F	81-90 F	≥ 91 F	
Rel. Hum.	2383727	49887	55.0	15.738	900						
Dry Bulb	4216265	61097	67.9	8.733	900		44.7	25.9	0.5	0.8	72
Wet Bulb	3332731	51999	57.8	5.926	900		4.3				92
Dea-Point	2280706	44976	50.0	6.762	900		1.4				92

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



ARMY CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/448

# PSYCHROMETRIC SUMMARY

1954 KANSTEN AB GERMANY 14-81  
STATION STATION NAME YEARS MONTH

21 10-23-54  
HOURS IN YEAR

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	DeW Point		
77																																						
75																																						
73																																						
71																																						
69																																						
67																																						
65																																						
63																																						
61																																						
59																																						
57																																						
55																																						
53																																						
51																																						
49																																						
47																																						
45																																						
43																																						
41																																						
39																																						
37																																						
35																																						
33																																						
31																																						
29																																						
25																																						
TOTAL	1.2	12.4	25.0	20.1	19.2	3.2	5.6	3.0	.7	.4	.6	.3	.1																									

FORM 0 26 5 (OL A) RE-USE PREVIOUS EDITIONS OF THIS FORM AND SUBSTITUTIONS  
 USAFETAC

Element (X)	Z <sub>W</sub>	Z <sub>R</sub>	H	Q <sub>h</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4474336	62160	69.1	4.195	900	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	
Dry Bulb	3432836	55205	61.3	7.161	900			17.0	5.5	1.5		24
Wet Bulb	2736475	49829	55.4	5.547	900			.5				6
DeW Point	2334958	45466	50.5	6.503	900		1.3					9



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PSYCHROMETRIC SUMMARY**

15143 RAMSTEIN AB GERMANY 74-31 JULY  
 STATION STATION NAME YEARS MONTH PAGE ALL  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31																			
16 / 20																																	5	39		
20 / 22																																				42
21 / 25																																				19
24 / 23																																				6
27 / 21																																				4
TOTAL	127	221	17	211	3	9.2	6.7	4.4	3.5	2.0	.4	.4	.2	.2	.1	.1	.0																7199	7199	7199	

Element (X)	$\sum X'$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	36375554	493204	68.5	17.546	7199			178.7	96.3	32.0	3.4	727
Wet Bulb	21928207	394577	54.8	6.471	7199		1.1	16.7				719
Dew Point	14111423	357869	49.7	6.687	7199		14.4					720

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

105143 RAMSTEIN AB GERMANY 74-83 JUL  
 STATION STATION NAME YEAR MONTH

PAGE 1 7000-0200  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb
77/77																	1	1		
75/77								.2									2	2		
74/75					.1	.1	.1			.1							2	3		
74/73			.1	.1	.1	.1	.1										2	4		
73/71			.4	.1	.1	.1	.1										10	10		
73/69		.1	.1	.3	1.1	.2		.1									25	25	5	
69/57		.1	1.2	.4	.1	.1											29	29	5	4
66/55	.1	1.1	1.1	1.1	1.1	.1	.1										53	53	22	5
64/53	.1	4.5	5.2	4.7	1.5	.1											150	150	51	32
62/51	.1	2.4	4.5	3.4	1.1	.1											112	112	78	38
60/50		3.8	5.5	1.4	.5												104	104	103	58
60/57		2.8	4.3	2.3	1.1												102	102	147	91
60/55	.1	3.9	4.5	2.3	.1												115	115	125	100
64/53	.2	2.6	3.7	2.5	.9												91	91	102	135
62/51	.1	2.1	2.1	.2	.3												84	84	94	120
60/49	.1	1.7	1.3	.3													2	32	93	81
49/47	.1	1.5	.3														15	13	65	58
48/45		.3	.2														3	5	23	69
44/43			.2														2	2	9	54
42/41																			3	13
40/39																			1	7
37/37																				0
35/35																				0
TOTAL	2.0	27.3	35.9	20.4	9.7	1.9	.6	.1	.2	.1	.1						450	450	930	930

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	5375549	72727	78.2	11.265	930			8.4	1.5	.1		93
Wet Bulb	3295233	55097	59.2	5.782	930			.8				93
Dew Point	2373094	51462	55.3	5.230	930			.8				93

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



FEDERAL CLIMATOLOGY BRANCH  
 WASHINGTON, D. C.  
 AIR WEATHER SERVICE/AMC

# PSYCHROMETRIC SUMMARY

STATION: 175143 KAMSTEIN AB GERMANY YEARS: 74-83 MONTH: JUL  
 PAGE: 1 HOURS (L.S.T.): 0600-0900

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.S.W.R.	Dry Bulb	Wet Bulb	Dew Point																	
78/ 75						.1		.1																														
74/ 73							.1																															
70/ 71				.1		.3	.3																															
70/ 59			.7	.1	.1	.2																																
67/ 57			.2	.3	.3																																	
65/ 55		1.0	.9	1.0	.1	.1	.1																															
64/ 53	.6	3.6	3.4	3.2	.1	.1																																
62/ 51	.4	2.6	3.4	2.2	.4	.7																																
60/ 59	.5	4.3	6.6	1.5	.7																																	
58/ 57	.5	5.5	5.3	2.5	.9																																	
58/ 55	.2	4.7	5.9	2.3	.5																																	
54/ 53	.3	3.2	5.0	.9	.3																																	
52/ 51	.3	2.8	2.9	.2	.5																																	
50/ 49	.1	2.0	1.7	.1																																		
48/ 47	.5	3.8	.7	.2																																		
46/ 45	.5	2.8	.7	.3																																		
44/ 43	.2	.4	.2																																			
42/ 41	.3	.8	.1																																			
40/ 39	.2		.1																																			
38/ 37		.1																																				
36/ 35																																						
34/ 33																																						
32/ 31																																						
TOTAL	5.2	37.2	37.5	14.6	3.7	1.0	.5	.1																														

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Ref. Num.						≤ 10 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	6292916	75868	81.6	10.394	930			2.3	.3			93
Wet Bulb	3003315	52571	56.5	5.831	930			.1				93
Dew Point	2561221	47258	50.8	6.328	930							93

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

2

FEDERAL CLIMATOLOGY BRANCH  
 WASHINGTON, D.C.  
 AIR SERVICE/MAC

# PSYCHROMETRIC SUMMARY

10344 AMSTERDAM, GERMANY  
 STATION STATION NAME

74-83  
 YEARS

JUL  
 MONTH

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb
87/87									.1	.1	.1						2	2		
86/87								.1		.1							3	3		
85/85									.1		.1						2	2		
84/83									.7		.1						4	4		
83/81							.4	.7	.4	.5	.2						15	18		
82/79						.4	.2	.9	.3								17	17		
81/77				.1	.2	.7	.9	.3	.1	.2							25	25		
80/75				.2	.6	1.7	.9	.5									37	37		
79/73		.1	.1	.5	.7	1.8	1.2										41	41		
78/71			.5	.6	2.0	1.7	1.2	.2									45	49	5	1
77/69		.1	.6	.6	2.2	2.5	.1	.3									1	21	18	
76/67		.2	1.3	1.3	2.7	.4	.3	.1									55	63	40	3
75/65		.9	1.4	2.4	1.8	.4	.3										58	69	63	13
74/63		1.3	2.3	2.5	3.7	1.8	.7	.1									105	165	101	44
73/61		.6	3.7	3.1	2.9	.4	.1										103	103	100	52
72/59		1.5	3.7	2.8	2.4	.1	.1										98	98	114	26
71/57	.3	1.5	1.3	3.3	.6	.1											69	69	137	94
70/55	.2	1.4	2.2	1.9	.3												55	55	108	129
69/53	.1	1.2	.5	1.3	.3												70	30	89	124
68/51	.2	.2	.2	.2	.3												14	14	97	103
67/49		.1	.2	.1													4	4	35	49
66/47			.1														1	1	24	80
65/45																			5	85
64/43																			1	28
63/41																				13
62/39																				10
61/37																				4
60/35																				2
TOTAL	.9	9.7	19.4	27.0	20.5	11.3	5.8	2.7	1.5	1.0	.5	.2					929	930	929	929

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4441123	63055	67.9	13.185	929	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	3951213	60233	64.8	7.345	930			52.3	15.3	3.4		93
Wet Bulb	3177408	54098	58.2	5.409	929			6.3				93
Dew Point	2580504	49596	53.4	5.941	929			.4				93

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

1  
2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AET WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

176147 RAMSTEIN AB GERMANY  
STATION STATION NAME

74-83  
YEARS

JUL  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb
95/95															.1		4	4		
94/93											.3	.2	.5				10	17		
93/91											.2	.3	.1	.1				9		
92/89									.3	.4	.1	.2	.1				10	10		
91/87								.2	.4	.6	.3						12	15		
90/85						.1	.1		.5	.1	.4	.1					14	14		
89/83						.1	.1	1.0	.3	.9	.1	.2					25	25		
88/81				.1		.1	1.0	1.3	2.9	1.6	.4	.2					68	68		
87/79			.1		.1	.2	.4	2.2	1.4	.6	.7						5	55		
86/77				.1	.3	.5	1.9	1.2	.6	.2	.1						49	49		
85/75					.2	.8	2.4	2.3	.4								1	61	2	
84/73			.1	.5	.6	1.1	2.7	.8	.5								57	59	5	2
83/71				.3	1.0	1.6	3.0	1.7	.1								72	77	18	
82/69			1.1	.1	.5	2.4	1.2	.4	.1								5	65	48	2
81/67			.2		1.6	1.2	2.3	.2	.2								51	51	55	3
80/65		.2	.5	1.3	1.7	1.1	1.8	.3									4	64	104	11
79/63		.4	1.2	2.9	3.0	4.8	.9	.3									124	124	38	47
78/61	.1	.5	1.8	.4	2.9	1.2	.3	.1									70	77	121	40
77/59	.2	1.1	1.7	1.3	1.5	.4											58	59	112	74
76/57	.1	.3	.6	1.3	.2												24	24	106	108
75/55	.5	.4	.5	.4	.3												21	21	75	113
74/53	.4		.2	.3													9	9	109	105
73/51	.1																1	1	43	102
72/49	.2																	2	19	55
71/47																			10	64
70/45																			5	116
69/43																				23
68/41																				19
67/39																				14
66/37																				4
65/35																				2
64/33																				1
TOTAL	.4	4.0	7.3	9.1	15.6	16.7	17.8	11.5	6.9	4.6	2.3	1.8	.9	1.1	.2		930	93	930	930
Element (X)	ΣX'	ΣX	X	Σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.	3281871	51667	55.6	15.307	930	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb	4713944	65664	70.6	9.142	930			55.7	37.9	17.1	1.4	93								
Wet Bulb	3402095	55999	60.2	5.699	930			13.8	.7			93								
Dew Point	2639612	49194	52.9	6.260	930			.7	.2			93								

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



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FEDERAL CLIMATOLOGY BRANCH  
 WAFETAC  
 AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

10190 RAMSTEIN AB GERMANY  
 STATION STATION NAME

74-83  
 YEARS

JUL  
 MONTH

PAGE 1 1970-1970  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
97															.1	.1					
95													.1	.1	1.2	.1		17	17		
93											.1	.1	.1	.3							
91									.1	.1	.1	.4	.1	.1							
89								.2	.5	.5	.9	.3	.1					24	24		
87							.1	.2	.1	1.1	.5	.4						24	24		
85							.3	.5	.5	.4								21	21		
83							.5	.8	2.6	.5	.5							49	47		
81					.1	.2	1.2	.9	2.3	2.9	.5	.2	.3					77	79		
79					.1	.3	.2	2.5	1.7	1.7	.4							58	58		
77					.2	.2	1.1	1.9	1.1	.5								46	45		
75				.1	.4	.3	1.4	2.7	.9												
73				.3	.5	.5	2.8	1.9	1.1									65	65	11	
71				.1	1.2	1.4	2.4	1.9	.6	.2								72	72	21	
69			.5	.1	.5	2.7	.6	2.4	.3									77	79	47	7
67			.7	.1	1.3	.9	2.3	.3										42	47	83	4
65		.1	.5	1.1	.8	.5	2.6	.5										59	59	110	5
63		.6	1.5	2.5	1.4	4.9	.6	.1										109	109	103	48
61		.3	1.3	.6	1.2	.9	.2											42	42	176	32
59		1.0	.5	.8	1.2	.3												35	36	109	62
57		.1	.2	1.3	.1	.2												15	15	98	105
55		.9	.2	.5	.5													19	19	95	115
53		.1			.3													4	4	84	114
51																				30	77
49																				12	76
47																				10	76
45																					134
43																					41
41																					15
39																					16
37																					2
35																					2
TOTAL		3.0	5.4	7.3	9.9	13.8	15.3	15.6	9.5	8.5	4.4	3.0	1.7	.9	1.7	.2		930	930	930	930
Element (X)	Z <sub>1</sub>	Z <sub>2</sub>		X	S <sub>2</sub>	No. Obs.		Mean No. of Hours with Temperature					Total								
Rel. Hum.	2624433	47272		50.8	15.445		930	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total							
Dry Bulb	5353325	67972		73.1	9.587		930			64.6	46.2	25.1	2.7	93							
Wet Bulb	3486889	56711		61.0	5.556		930			16.3	1.2			93							
Dew Point	2501130	48848		52.5	6.173		930			.7				93							

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

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAO

# PSYCHROMETRIC SUMMARY

1447 RAMSTEIN AB GERMANY  
STATION STATION NAME

74-85  
YEARS

YEARS

JUL  
MONTH

PAGE 1 1670-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL									
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																						
98/ 97																	.1																	1	1								
96/ 95																	.1										.1								7	7							
94/ 93																	.1		.1		.1	.3													6	6							
92/ 91																	.1		.1		.1															4	4						
90/ 89																	.3		.3		.5							.1	.1							15	15						
88/ 87																	.3		.5		1.4		.2	.1												29	29						
85/ 85																	.1	.4	.2	.4	.4															18	17						
84/ 83																	.2	.5	.5	2.2	.4	.4	.1													42	42						
82/ 81																	.1	1.0	1.1	2.8	2.4	.9	.3													70	79						
80/ 79																	.9	.1	1.6	1.7	.9	.5														59	55						
78/ 77																	.1	.1	.1	.9	2.7	1.0	.1	.1												47	47						
76/ 75																	.1	.2	.5	1.3	2.4	.9															56	56					
74/ 73																	.4	.2	.5	2.7	1.9	.9															56	56	6				
72/ 71																	.1	.4	.3	1.3	3.1	1.9	.6	.1													77	77	17				
70/ 69																	.1	.1	.9	2.2	1.4	1.5	.3														60	60	41				
68/ 67																	.2	.2	.3	1.2	1.0	1.5	.3	.1													47	45	73				
65/ 65																	.3	1.2	1.2	1.3	1.0	2.3	.1														53	68	174				
64/ 63																	1.7	2.2	1.6	1.6	5.5	.9	.3														12	127	176				
62/ 61																	.3	2.2	1.7	1.4	.6	.4															55	55	119				
60/ 59																	1.0	.6	.9	1.3	.3	.1															39	39	170				
58/ 57																	.5	1.7	.3																		19	19	98				
56/ 55																	.4	.4	.5	.5																	16	16	38				
54/ 53																		.1	.5																		7	7	24				
52/ 51																																											
50/ 49																																											
48/ 47																																											
46/ 45																																											
44/ 43																																											
42/ 41																																											
40/ 39																																											
38/ 37																																											
36/ 35																																											
TOTAL																	4.1	3.0	7.7	10.6	14.2	15.1	14.7	10.2	6.6	3.2	3.3	.5	.4	1.1	.2						930	930	930				

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	2359735	49413	53.1	15.881	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	4878463	66817	71.8	9.158	930			60.2	41.2	21.5	1.4	93
Wet Bulb	3439515	56325	60.6	5.413	930			13.7	.6			93
Dew Point	2613968	48944	52.6	6.142	930			.3				93

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FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 0147 RAMSTEIN AB GERMANY 74-83 JUL 1974 2100-2300 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
86/ 89											.1		.2	.1				4	4																
84/ 87								.1	.1	.2	.2	.1	.1					3	5																
83/ 81						.1	.1	.5	.5	.5	.1							2	12																
82/ 79					.1	.1	.1	.5	.5	.1	.1							2	12																
77/ 77				.1	.3	.4	.6	.5	.4	.3								7	25																
76/ 75		.1	.3	.3	1.1	.6	.2	.1										10	22																
74/ 73			.1	.4	.9	1.6	.4	.1										5	37	1															
73/ 71			.3	.5	1.3	1.2	1.2	.3	.1									4	45	6															
73/ 69		.1	1.3	1.3	1.5	2.8	1.1											5	75	14	1														
71/ 67		.2	1.5	.5	1.7	1.2	.5											5	5	17	5														
69/ 65		.4	2.2	2.0	2.0	1.7	.7	.1										5	75	69	10														
64/ 63		1.6	3.2	5.3	3.5	2.7	.4											11	151	86	34														
62/ 61		1.7	3.9	2.3	3.1	.4	.1											17	107	103	44														
60/ 59		1.8	3.1	2.2	1.6	.2												13	57	124	76														
57/ 57		1.7	1.7	3.5	1.1	.1												4	74	140	101														
56/ 55	.2	1.5	1.3	1.4	.8													3	57	83	126														
47/ 53	.1	.5	1.4	.9	1.0													37	37	108	111														
47/ 51	.1	.3	1.7	.1	.1													14	14	76	111														
46/ 49																				40	55														
46/ 47			.1															1	1	29	55														
46/ 45																				5	17														
44/ 43																					10														
42/ 41																					11														
40/ 39																					11														
39/ 37																					1														
36/ 35																					2														
TOTAL	.4	5.7	22.4	21.2	19.4	12.5	7.1	2.9	2.2	1.1	.6	.2	.3	.1				930	930	930	930														
Element (X)	Σ X'	Σ X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	4409661	62647	67.4	14.286	930	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	3968300	63356	64.9	7.428	930			32.5	15.0	4.0		93																							
Wet Bulb	3175195	54109	58.2	5.395	930			5.8	.1			93																							
Dew Point	2565078	49458	53.2	6.127	930			.6				93																							

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

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION RAMSTEIN AB GERMANY YEAR 74-83 MONTH JUL

DATE 1 ALL HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																		
95/97																																							
94/95																																							
94/93																																							
93/91																																							
92/89																																							
91/87																																							
90/85																																							
89/83																																							
88/81																																							
87/79																																							
86/77																																							
85/75																																							
84/73																																							
83/71																																							
82/69																																							
81/67																																							
80/65																																							
79/63																																							
78/61																																							
77/59																																							
76/57																																							
75/55																																							
74/53																																							
73/51																																							
72/49																																							
71/47																																							
70/45																																							
69/43																																							
68/41																																							
67/39																																							
66/37																																							
65/35																																							
64/33																																							
63/31																																							
Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total																											
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																												
Dry Bulb																																							
Wet Bulb																																							
Dew Point																																							

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

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

1 1147 HAMSTEIN 45 GERMANY  
 STATION STATION NAME

74-83  
 YEAR

JUL  
 MONTH

ALL  
 HOURS IN MONTH

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
77.5	1.	16.	21.	15.	11.	5.	2.	7.	6.	3.	3.	2.	7.	1.	4.	1.	1.	.4	.3	.4	.1		7435	744	7479

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_s$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	35893545	499097	67.1	17.993	7439	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb	31313100	480784	64.6	9.981	7443			258.2	157.4	71.2	5.5	744
Wet Bulb	24876410	427692	57.5	6.212	7439			57.5	2.6			744
Dew Point	20605680	388833	52.3	6.156	7439		.9	3.1	.2			744

USAFETAC FORM 8-64 0-26-5 (OL A) REVISED PERVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
 DRAPETAC  
 AIR WEATHER SERVICE/MAC

**PSYCHROMETRIC SUMMARY**

10-147 PAKSTEIN AB GERMANY 74-24 A J J  
 STATION STATION NAME YEARS MONTH

PERIOD: 1300-1500  
 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL									
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point																				
72/ 71					.1																																	1			
71/ 59				.1	.1																																2				
67/ 67							.1																														2				
65/ 55		.1					.4																													17	17	1			
64/ 57		1.6	2.3	3.1				.7																												47	77	5	4		
62/ 51	.9	1.9	5.7	1.4	.6																															47	97	45	17		
60/ 59	.4	3.0	7.0	1.2	.2																															117	117	51	33		
57/ 57	.1	6.7	4.2	1.5	.2																															117	117	123	51		
57/ 55	.5	5.5	6.3		.2																															127	127	143	112		
54/ 53	1.7	4.6	4.1	.1																															68	98	171	141			
52/ 51	1.9	3.7	5.3																																101	101	147	136			
52/ 49	.3	1.9	2.3	.1																															43	43	93	94			
46/ 47	.3	2.0	.9	.2	.1																														40	40	73	93			
46/ 45	.8	2.9	1.1	.2	.2																														48	48	47	127			
44/ 43	.4	1.7	1.1	.1																															24	24	27	42			
42/ 41	.1	.7	.2																																7	7	16	23			
41/ 39		.8	.1	.1																															7	7	15	12			
37/ 37	.1			.2																															7	7	12	14			
35/ 35																																					1				
34/ 33																																					1	7			
33/ 31																																									
32/ 29																																									
28/ 27																																									
26/ 25																																									
TOTAL	7.637	7.741	5.10	2.8	.2	.1																																930	930		920

USAFETAC FORM 8-64 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\sum x^2$	$\sum x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F		≤ 93 F
Rel. Hum.	6519746	77378	83.2	9.339	930							
Dry Bulb	2576343	51439	55.3	5.796	930			6				53
Wet Bulb	2594907	48867	52.5	5.469	930		2					23
Dew Point	2375862	46690	50.2	5.853	930		12					93

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/4401

**PSYCHROMETRIC SUMMARY**

1 214 1 LANSTEIN AB GERMANY  
 STATION STATION NAME

74-83  
 YEARS

YEAR

AUG  
 MONTH

PAGE 1 1600-0500  
 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
75 / 75																			1	3															
73 / 71					.1														1	1															
71 / 59				.1															1	1															
67 / 67																																			
65 / 55			.1	.4	.4														1	9	1														
64 / 53	.1	1.8	3.2	1.7	.7	.1												3	55	4	6														
62 / 51	.3	3.3	4.7	2.2	.5													101	101	26	12														
61 / 59	.4	2.2	1.9	1.4	.2	.1												7	92	59	30														
60 / 57	.3	5.8	5.1	.9		.7												124	124	97	63														
58 / 55	.1	5.1	7.0	.5														120	130	125	75														
57 / 53	.9	4.5	4.2	.7														3	93	155	115														
52 / 51	1.0	3.8	4.4		.1													9	86	137	148														
50 / 46	1.1	2.8	2.5															5	59	101	115														
47 / 47	.4	3.1	.3	.1														41	41	72	97														
46 / 45	1.1	3.6	1.6		.5													1	61	54	113														
44 / 43	.5	1.3	.4	.2														24	24	32	61														
42 / 41	.4	1.0	.1	.1														15	15	27	33														
40 / 39	.1	.5	.4	.1														11	11	12	29														
38 / 37	.1	.2	.1															4	4	10	17														
35 / 35				.1														1	1	7	12														
34 / 33		.1																1	1	3	6														
33 / 31																				1	1														
30 / 29																																			
27 / 27																																			
27 / 21																					1														
TOTAL	7.439	7.420	9.5	1.7	.4													926	926	975	928														

Element (X)	Σ x'	Σ x	R	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
						≥ 0 F	≥ 32 F	≥ 67 F	≥ 75 F	≥ 80 F	
Rel. Hum.	6536954	77425	83.4	9.117	928						
Dry Bulb	2313454	53756	54.7	6.092	928			.5	.3		93
Wet Bulb	2537963	48249	52.0	5.630	928		.1	.3			93
Dew Point	2323721	46101	49.7	6.014	928	1.4					93

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



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

15140 WAMSTEIN AB GERMANY 74-83 AMO  
STATION STATION NAME YEARS MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																		
47/63																																							
47/61																																							
47/59																																							
47/57																																							
47/55																																							
47/53																																							
47/51																																							
47/49																																							
47/47																																							
47/45																																							
47/43																																							
47/41																																							
47/39																																							
47/37																																							
47/35																																							
47/33																																							
47/31																																							
TOTAL	1.2	12.2	12.5	4.2	7.5	16.0	17.4	4.1	1.6	.8	.2																												

Element (X)	Σx'	Σx	Σ	Σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4323245	55913	71.1	12.145	927	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	3745743	58729	63.1	6.314	930			22.5	8.2	1.0		93
Wet Bulb	3383584	53292	57.5	4.635	927			1.5				93
Dew Point	2650574	49359	53.2	4.931	927		.1					93

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

2

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAL

# PSYCHROMETRIC SUMMARY

13147 WASTFIV AB GERMANY 74-83 1270-1400  
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

PAGE 1270-1400  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																
72/ 91																																		1	1		
73/ 89																																					
74/ 87																																					
75/ 85																																					
74/ 87																																					
73/ 81																																					
72/ 79																																					
71/ 77																																					
70/ 75																																					
74/ 72																																					
72/ 71																																					
70/ 69																																					
69/ 67																																					
68/ 65																																					
67/ 63																																					
66/ 61																																					
65/ 59																																					
64/ 57																																					
63/ 55																																					
62/ 53																																					
61/ 51																																					
60/ 49																																					
59/ 47																																					
58/ 45																																					
57/ 43																																					
56/ 41																																					
55/ 39																																					
54/ 37																																					
53/ 35																																					
TOTAL																																					

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	X	X <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Num.	3176217	52713	56.7	14.127	929	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	4612507	65093	70.1	7.419	929			57.5	34.6	11.3		93
Wet Bulb	3390134	55954	60.2	4.643	929			8.4				93
Dew Point	2656464	49420	53.2	5.441	929			.3				93

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

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 5140 RAMSTEIN AB GERMANY 74-85 ALG  
STATION STATION NAME YEARS MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
67-95													.1	.1				2	2		
74-93														.1				1	1		
81-91												.1	.2	.1				4	4		
87-89											.2	.2	.2					12	12		
86-87								.1	.4	.6	.6	.1	.1	.1				14	14		
85-85								.2	.4	.6	.1	.1	.1					15	15		
84-83							.2	.3	1.0	.4								2	30		
77-81							.2	1.4	3.0	3.1	.1	.2	.1					3	83		
77-79						.5	.7	1.0	2.5	1.7	1.7							72	70		
77-77						.5	1.4	3.7	1.6	1.6								2	87		
76-75				.1	.4	.3	2.1	2.5	.6	.4	.2							67	67		
76-73				.5	.9	.9	2.2	.9	.5	.1								4	64		
72-71			.1	.5	1.7	.9	3.9	2.0	.5									1	91	2	
71-59			.2	1.0	1.0	5.4	2.5	.8	.1									102	102	26	
67-67			.2	.1	1.4	1.3	2.3	.5										54	54	74	1
67-65			.7	1.1	1.1	1.5	1.3	.1										50	50	106	3
64-53		.4	1.6	2.2	2.2	3.4	.8	.3										128	109	137	25
62-51		1.1	.9	1.0	.5	1.3	.6											50	50	140	40
62-59		.4	1.1	.4	.2													30	20	156	68
62-57		.4	.6	.4														14	14	111	50
58-55		.1	.1			.2												4	4	90	173
54-53					.1													1	1	43	128
52-51																				72	134
52-49																				9	76
48-47																					50
46-45																				2	82
44-43																					54
43-41																					17
43-39																					2
37-37																					3
36-35																					6
TOTAL		2.5	5.2	3.2	9.4	15.9	17.5	13.4	10.1	9.5	4.0	2.2	.8	.5				930	93	930	
Element (X)	Z <sub>g</sub>	Z <sub>x</sub>	X	X <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	2567358	47994	51.6	14.322	930	±0 F	±32 F	±67 F	±73 F	±80 F	±93 F	Total									
Dry Bulb	4936575	67369	72.4	7.797	930			68.3	43.6	20.1	.3	93									
Wet Bulb	3459151	56563	60.8	4.519	930			10.4				97									
Dew Point	2500147	46915	52.6	5.428	930			.1				93									

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

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

196140 RAMSTEIN AB GERMANY

74-83

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
94/ 93													.1					1	1			
93/ 91											.1		.1						2	2		
92/ 89											.1	.3	.1						5	5		
91/ 87									.1		.3	.6						10	10			
90/ 85									.1	.3	.5							9	9			
89/ 83								.1	.4	1.5	.4	.1	.2					25	25			
88/ 81						.1	1.3	2.6	2.2	.6	.3							67	67			
87/ 79					.1	.1	1.1	1.6	1.1	.4	.1							42	42			
86/ 77				.2	.5	1.3	1.9	1.6	1.3	.5								72	72			
85/ 75				1.1	1.1	1.4	2.6	.5	.4	.1								66	66			
84/ 73			.5	.6	1.7	2.1	1.7	.5	.2									74	74			
83/ 71			.7	.4	2.5	1.1	3.3	1.5	.2									6	66	3		
82/ 69		.2	.3	.4	1.5	3.1	1.8	1.1										3	80	8		
81/ 57		.1	.7	.5	2.0	1.9	2.3	.4										73	73	69		
80/ 65			.9	1.5	2.2	1.1	1.1											62	62	176	10	
79/ 53	.1	.5	.9	4.5	4.2	3.2	.8	.2										134	134	114	23	
78/ 51		1.0	1.2	1.3	.8	.7	.3											50	50	137	40	
77/ 59		.4	1.2	.4	1.7	.5	.1											34	34	166	67	
76/ 57	.1	.5	.7	.9	.3	.1												27	22	127	104	
75/ 55	.1	.1	.5	.3		.1												11	11	121	126	
74/ 53																				47	122	
72/ 51		.2		.1														3	3	30	127	
70/ 49																				17	84	
67/ 47			.1															1	1	2	67	
65/ 45																					170	
64/ 43																				1	25	
62/ 41																					23	
60/ 39																					2	
56/ 37																					4	
55/ 35																					5	
TOTAL	.3	3.0	5.2	11.1	16.5	15.1	15.9	11.9	7.8	6.7	3.4	1.5	.5					930	930	930	930	
Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total											
Rel. Hum.	3301407	51001	54.0	14.838	930	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total										
Dry Bulb	4700541	65731	70.7	7.678	930			61.3	37.4	14.2	.1	93										
Wet Bulb	3390123	55989	60.2	4.570	930			8.0				93										
Dew Point	2607098	48976	52.7	5.481	930							93										

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

10140 KAMSTEIN AB GERMANY 74-63  
STATION STATION NAME YEARS

PAGE 1 2170-2300  
MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
77 / 77						.1	.1	.5	.2									10	13						
76 / 75						.4	.6	.5	.2									11	21						
74 / 72		.1		.1	1.0	.6	.8	.4	.1									10	30						
72 / 71				.4	.9	1.3	.3	.2	.1									10	30						
70 / 59			1.1	1.2	2.4	1.3	.7	.1										14	64	1	1				
67 / 67	.1	.1	.5	1.5	2.9	1.2	1.0											30	69	6	1				
66 / 65		.5	1.4	3.4	1.4	.2	.2	.1										14	74	76	1				
64 / 63	.8	2.5	2.6	5.9	2.6	2.4	.2											14	174	77	33				
62 / 61		1.7	5.4	3.5	1.9	.2												11	117	135	35				
60 / 59	.1	1.6	5.7	3.3	1.1	.1												111	111	134	64				
58 / 57	.3	2.3	3.4	2.7	.1													2	52	158	99				
56 / 55	.2	1.6	2.0	1.4	.1													3	50	127	154				
54 / 53	.3	1.2	1.3	.9	.1													3	35	117	147				
52 / 51		.4	1.1		.3													17	17	64	120				
51 / 49		.5	.4															9	8	36	66				
48 / 47		.3	.3	.2														3	8	18	75				
46 / 45		.1	.1	.1														2	3	6	81				
44 / 43																				5	19				
42 / 41																				2	14				
40 / 39			.1															1	1		2				
38 / 37																					3				
36 / 35																					1				
34 / 33																					1				
32 / 29																					1				
TOTAL	1.0	13.1	25.5	28.3	14.9	8.9	4.1	2.9	.3									370	3	130	900				

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4920125	66623	71.6	12.597	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	3597171	58367	62.8	6.054	930			22.7	6.4			93
Wet Bulb	3368666	53246	57.3	4.655	930			.8				23
Dew Point	2644086	49350	53.1	5.224	930		.1	.2				93

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

170147 HAMSTEIN AB GERMANY 74-83  
STATION STATION NAME YEARS MONTH  
PAGE: 1 ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
36/ 53																		2	2		
47/ 53																		2	2		
57/ 51																		7	7		
67/ 49																		19	19		
77/ 37																		3	33		
87/ 55																		1	31		
47/ 53																		7	37		
57/ 51																		21	21		
67/ 49																		167	167		
77/ 37																		247	247		
75/ 75																		243	243		
74/ 73																		261	261		
72/ 71																		321	321	9	
70/ 69																		426	435	51	1
68/ 67																		342	342	224	5
66/ 65																		421	422	397	18
64/ 63																		1015	1057	571	155
62/ 61																		729	729	798	258
60/ 59																		642	642	960	471
58/ 57																		599	599	1080	672
56/ 55																		511	511	974	1056
54/ 53																		333	333	819	1118
52/ 51																		263	263	593	1059
50/ 49																		14	154	371	670
48/ 47																		104	104	222	657
46/ 45																		137	137	150	696
44/ 43																		53	53	78	242
42/ 41																		24	24	57	157
40/ 39																		21	21	30	65
38/ 37																		7	7	23	45
36/ 35																		1	1	10	41
34/ 33																		1	1	4	20
32/ 31																				3	10
30/ 29																					6

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

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

106140 RAMSTEIN AB GERMANY 74-82 AUG  
STATION STATION NAME YEARS MONTH  
PAGE ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																
77-87																																					
77-85																																					
77-81																																					
TOTAL	2.0	17.0	24.0	16.0	10.2	8.9	7.3	5.2	3.5	2.5	1.2	.5	.3	.1				7434	7437	7434																	
																		7474		7434																	

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	37551561	513211	69.0	17.289	7434	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	30579527	471811	63.4	9.330	7437			237.8	130.9	46.6	.4	744
Wet Bulb	24300370	423174	56.9	5.964	7434		.3	29.4				744
Dew Point	20401270	387199	52.1	5.513	7434		2.9	.6				744

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





FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION RAMSTEIN AB GERMANY YEAR 1948 MONTH SEP  
 PASS 1 HOURS (L. S. Y.) 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
59																						
57																						
55																						
53																						
51																						
50	1.1	1.6	3.0	2.2	.3																	
49	.5	3.7	1.6	1.2	.3																	
48	.5	3.7	3.8	3.6																		
47	1.2	3.4	2.7	1.2																		
46	2.2	4.8	3.7	.2																		
45	1.2	4.1	2.1																			
44	.7	7.3	.9																			
43	1.7	7.7	4.1																			
42	1.2	3.1																				
41	.2	2.1	.7																			
40	.4	1.1	.7																			
39	.6	.5	.6																			
38	.4	.6																				
37	.1																					
36																						
35																						
34																						
33																						
32																						
31																						
30																						
29																						
28																						
27																						
TOTAL	13.4	3.5	3.1	2.4	.3													30	70		90	

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	6519777	76035	84.5	10.349	900							
Dry Bulb	2473531	46163	51.3	6.731	900			1.1				
Wet Bulb	2102330	43973	48.9	6.137	900			.1				
Dew Point	1994728	41974	46.6	6.429	900		2.4					

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



2  
 FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 0140 WAMSTEVIN AB GERMANY 76-83 57P  
 STATION STATION NAME YEARS MONTH  
 PART 1 0900-1100  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
75/ 75																		1		1															
74/ 74						.1		.1										2		2															
73/ 73					.7	.7		.1										2		2															
72/ 72				.4	.4													15		15															
71/ 71			.7	1.7	.4	.1												26		26															
70/ 70		1.7	2.7	4.1	2.1	.7												48		48	15	1													
69/ 69	.1	2.7	3.3	3.3	2.7	.1												1		99	37	13													
68/ 68	.3	2.7	3.3	4.1	.9			.1										114		114	62	43													
67/ 67	.5	2.3	3.3	3.6	.7	.1			.1									3		3	28	35													
66/ 66	.4	4.7	4.1	4.8		.1												1	1	1.1	112	73													
65/ 65	.7	3.2	3.3	2.8	.9													70		70	124	92													
64/ 64	.7	3.9	4.8	.3														5		98	116	132													
63/ 63	.8	2.4	1.1	.2														2		12	138	81													
62/ 62	.1	2.5	1.6															1		41	91	127													
61/ 61	.1	.3	.6															10		40	43	159													
60/ 60	.2	.3	.6															11		15	71	66													
59/ 59	.1	.4	.1															2		5	17	47													
58/ 58		.3	.1															4		4	7	15													
57/ 57			.1															1		1	4	17													
56/ 56																		1		1	1	7													
55/ 55																					1	4													
54/ 54																						1													
53/ 53																						1													
52/ 52																						1													
TOTAL	4.728	6.31	9.24	7.9.3	1.5	.2	.1											900		900	400	90													

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Num.	5524 13	75435	78.3	11.145	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2577224	51592	56.2	6.384	900			2.8	.1			3.9
Wet Bulb	2505504	47252	52.5	5.238	900							3.0
Dew Point	2216564	44376	49.3	5.634	900		.2					2.2

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

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
414 WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

12-147 RAMSTEIN AB GERMANY

74-83

YEARS

MONTH

PAGE 1 1270-1400  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
91							.1	.1	.4									6	6																
89						.1	.1	.2										10	12																
87					.1	.1	.4			.2								17	17																
85					.2	.2	1.2	.4	.2									23	23																
83				.1	1.3	1.7	1.1	.3	.5									40	45																
81			.1	.3	1.2	2.7	1.7	.5	.2									57	57																
79			.3	1.3	1.9	7.3	1.7	.5	.2	.1								73	79	4															
77			.7	.7	2.7	1.9	1.1	.3										77	79	13															
75		.4	1.1	1.7	2.4	1.3	.7	.7	.1									73	73	45															
73		1.7	2.1	5.3	3.4	5.0	1.4	1.0										177	177	95	17														
71		.4	2.2	1.6	4.7	1.4	.2											5	95	76	35														
69	.1	.6	1.7	2.7	3.3	.7	.2											13	83	125	78														
67	.1	.7	1.2	3.5	1.7	.7	.1											12	62	113	67														
65	.1	.4	.6	1.4	.9	.5												3	35	88	82														
63		1.7	.6	1.4	.1													0	30	175	95														
61		.4	1.7	.1	.1													1	21	70	84														
59		.6	.3															6	7	47	44														
57		.2	.4															5	4	45	49														
55		.5																5	5	14	147														
53		.2																0	2	6	61														
51																				1	33														
49																					18														
47																					9														
45																					1														
43																					1														
41																					1														
39																					1														
37																					1														
35																					1														
33																					1														
TOTAL	.3	6.9	13.2	20.2	22.3	31.0	41.0	25.1	2.0	.3								900	900	900	90														

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3752717	56845	63.2	13.037	900	≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	3748750	57726	64.1	6.952	900			30.3	10.8	1.0		90
Wet Bulb	2917266	51014	56.7	5.345	900			1.7				90
Dew Point	2356914	45696	50.8	6.396	900							90

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/4AC

# PSYCHROMETRIC SUMMARY

105140 SAMSTEIN AB GERMANY

74-63

YEARS

MONTH

PAGE 1 15 0-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																		
57/85																																				1	1		
64/83																																							
71/81																																							
77/79																																							
75/77																																							
74/75																																							
74/75																																							
71/71																																							
70/71																																							
70/69																																							
67/67																																							
65/65																																							
64/63																																							
62/61																																							
60/59																																							
57/57																																							
55/55																																							
54/53																																							
52/51																																							
50/49																																							
47/47																																							
45/45																																							
44/43																																							
42/41																																							
40/39																																							
37/37																																							
34/35																																							
34/33																																							
32/31																																							
TOTAL	4.2	9.4	14.9	17.0	17.7	16.6	13.6	5.7	2.3	1.7	.1																												

Element (X)	Z <sub>1</sub> '	Z <sub>2</sub>	X	X <sub>n</sub>	No. Obs.	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3173761	51851	57.6	4.377	900							
Dry Bulb	4333621	59867	56.5	7.561	900					2.0		90
Wet Bulb	2992252	51662	57.4	5.454	900				3.1			90
Dew Point	2313940	45236	50.3	6.694	900			0.2				90

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

FEDERAL BUREAU OF SURVEY  
 USAFETAC  
 AIR FORCE WEATHER SERVICE/MAR

**PSYCHROMETRIC SUMMARY**

1 1970 PAMSTEIN AB GERMANY 74-82 SEP MONTH

PAGE 1 1970-2000  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
67/71								.4	.4	.1								1	1																
70/77					.1	.3	.3	.5	.7	.7								1	1																
72/75					.3	.7	.7	.9	1.1	1.1								2	2																
74/73				.1	.7	1.1	1.1	.7	.8	.8								3	3																
77/71				.5	1.2	1.1	1.1	.7	.8	.8	.1	.1						8	8		53														
77/59			.7	.5	2.1	2.2	1.1	1.1		.1								6	14		2														
77/67			.1	1.3	2.1	1.1	.9	.2										4	14		10														
75/68		.2	1.0	2.2	1.2	1.1	.7	.3	.2									3	12		10														
74/53		.9	2.4	4.8	3.5	3.2	1.6	.4	.1									12	12		17														
72/61		.5	2.7	2.5	3.5	1.4	.2	.1										10	10		89														
70/59		1.2	1.7	3.4	2.6	.3	.3											14	14		113														
77/57		1.7	3.4	3.1	.7	.5	.1											15	15		124														
66/55	.1	1.3	1.2	2.1	.1	.5												5	10		104														
74/53		.7	1.3	.7	.4	.1												2	19		139														
72/51		1.2	.2	.9	.2													2	20		102														
77/47		.3	.4	.1														1	17		61														
77/47		.8	.4															1	11		29														
75/45		.6	.1																5		79														
74/43		.3																	2		7														
72/41		.1																	1		3														
77/39																																			
77/37																																			
75/35																																			
74/33																																			
72/31																																			
TOTAL	.1	0.2	1.2	2.2	6.1	10.1	15.6	8.9	4.9	2.4	.2							89	89		89														

Element (X)	ΣX'	ΣX	X	Σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature										
						+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	Total				
Rel. Hum.	3233102	50287	64.6	14.158	899											
Dry Bulb	3643685	56915	63.2	7.331	905			26.7	9.4	.6						90
Wet Bulb	2857615	50467	56.1	5.229	899			1.2								90
Dew Point	2322433	45355	50.5	6.176	899			.1								90

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/LMAC

PSYCHROMETRIC SUMMARY

175140 RAMSTEIN AB GERMANY 74-31 1974  
 STATION STATION NAME YEARS MONTH FEB 21 0-2300  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																		
75/ 75																																							
72/ 71						.1																																	
70/ 59					.1	.4	.5																																
67/ 57				.2	.4	.1																																	
65/ 55			1.1	.7	.4																																		
64/ 53		1.5	3.8	4.4	1.2	.5	.2																																
62/ 51		3.5	3.7	2.8	1.3																																		
60/ 59	.1	4.0	3.1	1.9	3.1	.2																																	
58/ 57		2.0	3.2	4.7	.6																																		
58/ 55	.1	2.3	4.4	3.7	.1																																		
54/ 53	.1	2.2	4.8	2.2	.7																																		
52/ 51	.1	2.3	4.5	.5	.2																																		
50/ 49	.3	3.7	3.3	.1	.1																																		
47/ 47		2.7	1.9	.4																																			
45/ 45	.4	2.9	1.2	.2																																			
44/ 43		.8	.2																																				
42/ 41		.2	.1																																				
41/ 39		.1																																					
39/ 37	.1																																						
35/ 35		.1																																					
34/ 33																																							
32/ 31																																							
TOTAL	1.1	31.2	36.7	27.9	7.2	1.7	.9																																

Element (X)	$\Sigma X$	$\Sigma X^2$	$\Sigma X^3$	$\Sigma X^4$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5640258	73596	78.4	10.589	900	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb	2385521	53675	56.3	5.988	900			.1	.3			90
Wet Bulb	2517205	47363	52.6	5.242	900							90
Dew Point	2233107	44540	49.5	5.572	900			.1				90

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

2

GLOBAL CLIMATOLOGY BRANCH  
 WAFETAC  
 AIR WEATHER SERVICE/440

PSYCHROMETRIC SUMMARY

10140 RAMSTEIN AB GERMANY 74-83 SEP  
 STATION STATION NAME YEARS MONTH  
 0305 ALL  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
57 55																		1	1		
57 56																					
57 57																					
57 58																					
57 59																					
57 60																					
57 61																					
57 62																					
57 63																					
57 64																					
57 65																					
57 66																					
57 67																					
57 68																					
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57 89																					
57 90																					
57 91																					
57 92																					
57 93																					
57 94																					
57 95																					
57 96																					
57 97																					
57 98																					
57 99																					
57 100																					
TOTAL		226.0	25.3	17.1	17.1	7.0	4.7	2.5	1.3	.4	.2	.0						71.9	72.0	71.9	
Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	41521331	534937	74.3	15.580	7199	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	720									
Dry Bulb	24529322	415432	57.7	5.842	7200			108.4	42.6	4.4		720									
Wet Bulb	20425671	380593	52.9	6.506	7199		.7	6.0				720									
Dew Point	17497488	351902	48.9	6.410	7199		6.8					720									

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



2

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/440

# PSYCHROMETRIC SUMMARY

176147 RAMSTEIN AB GERMANY 74-83 YEARS OCT MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		x 31	Dry Bulb	Wet Bulb
66/ 55					.7	.1												4	4	
64/ 53			.7	.3	.1													7	7	
62/ 51			.7	.2	.1													5	6	
60/ 50		.1	.7	.7	.7													10	17	3
58/ 57		.1	.7	.3														11	11	3
56/ 55	.2	3.7	2.5	.7	.1													26	26	20
54/ 53	.7	3.2	2.7	.9														24	64	57
52/ 51	.4	3.4	1.5	.4														3	53	55
50/ 49	.3	5.5	3.5	.4														6	60	79
48/ 47	.7	6.6	1.3															79	60	75
46/ 45	1.5	9.7	3.3	.2														119	133	121
44/ 43	1.7	5.6	2.4	.4														8	88	105
42/ 41	.5	5.7	1.7	.3														69	71	78
40/ 39	.7	8.4	1.1															13	94	76
38/ 37	1.4	4.7	.7	.3														43	60	108
36/ 35	1.1	3.4	.3															43	47	52
34/ 33	.7	1.3	.1															14	14	28
32/ 31	.3	1.4																11	11	25
30/ 29	.2	1.1																12	12	13
28/ 27	.2	.4																6	6	10
26/ 25																				10
24/ 23																				4
22/ 21																				1
TOTAL	4.0	3.2	2.1	4.5	.7	.1												918	918	918


Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	6338749	78674	85.7	8.501	918							53
Dry Bulb	1966318	42252	45.4	7.091	930		3.4					93
Wet Bulb	1777149	39933	43.5	6.510	918		5.1					93
Dew Point	1614191	37973	41.4	6.983	918		9.1					93

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

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1974 PANSTEIN AB GERMANY 74-83 OCT 0300-0500  
STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
64/55			.5	.1														2	2			
62/51				.3	.1													3	3			
60/59			.5	.1														4	4			
58/57		.4	.5	.1	.1	.1												15	15	5	3	
56/55	.4	1.4	2.0	1.0	.1													4	4	71	8	
54/53	.2	2.8	1.6	.7														-1	41	26	19	
52/51	.5	2.5	3.5															-1	51	52	25	
50/47	.1	4.0	2.0															2	62	74	38	
47/47	.9	5.3	2.4	.2														0	90	84	56	
46/46	1.5	7.8	4.0															123	127	103	152	
44/43	1.3	6.2	2.0	.1														16	89	172	82	
42/41	1.1	8.2	1.2	.1														27	93	86	107	
40/35	1.1	8.5	.2															43	93	91	91	
38/37	1.1	3.3	.8															47	48	170	96	
36/35	.5	6.0	.1	.1														12	62	48	65	
34/33	1.2	1.3	.1	.1														25	26	54	53	
32/31		1.6																15	17	76	29	
30/29	.1	2.2																1	21	25	34	
28/27	.5	1.4																10	16	17	36	
26/25	.2																	2	2	6	10	
24/23																					9	
22/21																					9	
TOTAL	10.7	63.3	22.2	2.6	.9	.1													918	918	918	918

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	6085659	79133	86.2	8.372	918		5.4					93
Wet Bulb	1366114	41130	44.2	7.319	918							93
Dew Point	1536020	36990	40.3	7.047	918		13.0					93

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

FEDERAL CLIMATOLOGY BRANCH  
 WAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

10140 RAMSTEIN AB GERMANY 74-83 OCT 1973-0800  
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
34/53																					
37/51																					
40/50																					
43/50			.1	.1	.1																
46/50	.2	2.4	.2	.7														39	50	51	7
49/50	.3	2.3	2.2	1.1														44	54	56	12
52/51	.4	3.7	2.4															50	58	47	31
55/49	.4	4.2	2.7															46	66	86	33
58/47	.5	7.2	2.7	.2														41	81	76	57
61/46	1.	7.7	4.1	.1														115	122	131	143
64/43	.7	5.3	2.6															5	92	91	67
67/41	1.4	5.4	1.2															110	113	72	93
70/39	.9	6.2	.2															71	71	99	92
73/37	2.4	5.1	.2															75	76	94	109
76/35	.4	2.6	.1															3	47	57	75
79/33	.7	1.6	.2	.1														2	21	45	53
82/31	.1	1.8																1	17	24	33
85/29	.7	2.3																27	27	26	37
88/27	.1	1.0																14	24	14	25
91/25	.5																			12	17
94/23	.1																	1	1	1	14
97/19																					
10140	10.7	5.7	2.4	2.0	.2													215		916	112

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	69325.2	79448	36.5	7.97	913							
Dry Bulb	1344998	43880	44.0	7.191	937		6.2					93
Wet Bulb	1573232	36754	42.2	5.784	913		7.8					93
Dew Point	1529223	35905	40.2	7.351	913		12.5					93

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

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

12-147 HAMSTEIN AB GERMANY 74-83 OCT 1950-11-30  
STATION STATION NAME YEARS MONTH  
PAGE 1 HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																		
67/57				.4	.1																																		
62/51		.1	.3	.4	.1																																		
57/53		.7	1.0	.4																																			
52/57		1.1	1.1	1.1																																			
55/52		1.4	1.4	1.6																																			
47/53		2.8	4.7	1.1	.1																																		
42/51	.5	4.8	3.1		.7																																		
41/49	.2	3.3	4.7	.1																																			
47/47	.4	6.6	2.8	.4																																			
41/45	.3	8.7	5.0	.1																																			
44/43	.7	6.5	2.7	.2																																			
42/41	.7	8.0	1.2	.1																																			
43/39	.3	5.5	.3																																				
37/37	1.1	3.8	.3	.1																																			
35/35	.5	2.2	.1	.2																																			
34/33	.7	1.5																																					
32/31	.1	.9	.2																																				
31/27	.1	.2																																					
28/25	.2	.5																																					
24/23																																							
22/21																																							
17/17																																							
TOTAL		6.257	28.9	6.3	.5																																		

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_n$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.	6547415	77473	34.2	8.438	927	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Dry Bulb	2344711	43111	46.4	7.572	933		2.7					93
Wet Bulb	1931932	40612	44.1	6.529	920		4.2					93
Dew Point	1647201	38435	41.8	6.720	929		8.2					73

USAFETAC FORM 0-26-5 (OL 4) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AND WEATHER SERVICE

# PSYCHROMETRIC SUMMARY

13147 AMSTEIN AB GERMANY 74-35 1970-1970  
STATION STATION NAME YEAR MONTH

PAGE 1 1970-1970  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																	
74/ 74										.1																												
73/ 77											.3										.1																	
72/ 75																																						
71/ 71								.1	.1																													
70/ 69											.4																											
69/ 67						.1	1.2				.1																											
68/ 65					.1	1.8	.1				.4																											
67/ 63					.4	.4	.1			.2																												
66/ 61		.1	1.0	1.8	1.9	.2																																
65/ 59		.1	1.0	1.7	2.3	.2																																
64/ 57		1.0	1.8	2.5	1.8	.5																																
63/ 55		1.7	2.7	3.5	1.5	.7																																
62/ 53	.1	1.1	2.7	3.2	1.6	.1																																
61/ 51	.1	2.4	4.5	2.3	2.4																																	
60/ 49		1.4	2.5	.4	1.1																																	
59/ 47	.2	3.2	3.1	1.1	.7																																	
58/ 45	.1	4.7	3.1	1.2	.7																																	
57/ 43		2.4	2.2	.5																																		
56/ 41		3.8	1.7	.1																																		
55/ 39		.7																																				
54/ 37		.1																																				
53/ 35		.2																																				
52/ 33																																						
51/ 31																																						
50/ 29																																						
49/ 27																																						
48/ 25																																						
47/ 21																																						
TOTAL		.23	.72	.6	1.2	1.0	.7	.4	.7	1.5	1.3	.4	.2	.1																								

Element (X)	Σ X'	Σ X	I	σ <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	479777	45344	70.9	3.22	921	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	3750733	53373	53.8	7.90	930			7.9	2.1			93
Wet Bulb	2239523	45066	48.9	6.11	921							93
Dew Point	1336594	40702	44.2	6.41	921		2.4					93

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







### PSYCHROMETRIC SUMMARY

STATION MONTH JANUARY 1953

74-53

YEAR

MONTH

ALL  
HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (P)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. - W.B.	Dry Bulb	Wet Bulb	Dew Point	
77																																					
76																																					
75																																					
74																																					
73																																					
72																																					
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70																																					
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FEDERAL CLIMATOLOGY BRANCH  
 STATE TAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

175147 RAMSTEIN AB GERMANY 74-57  
 STATION STATION NAME YEARS MONTH  
 1950-1959  
 HOURS 5 7

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. Wet Bulb	Wet Bulb	Dew Point		
50/50								.1																													
49/50								.2																													
48/50								.4																													
47/50								.7																													
46/50								1.0																													
45/50								1.3																													
44/50								1.6																													
43/50								2.0																													
42/50								2.4																													
41/50								2.8																													
40/50								3.2																													
39/50								3.6																													
38/50								4.0																													
37/50								4.4																													
36/50								4.8																													
35/50								5.2																													
34/50								5.6																													
33/50								6.0																													
32/50								6.4																													
31/50								6.8																													
30/50								7.2																													
29/50								7.6																													
28/50								8.0																													
27/50								8.4																													
26/50								8.8																													
25/50								9.2																													
24/50								9.6																													
23/50								10.0																													
22/50								10.4																													
21/50								10.8																													
20/50								11.2																													
19/50								11.6																													
18/50								12.0																													
17/50								12.4																													
16/50								12.8																													
15/50								13.2																													
14/50								13.6																													
13/50								14.0																													
12/50								14.4																													
11/50								14.8																													
10/50								15.2																													
9/50								15.6																													
8/50								16.0																													
7/50								16.4																													
6/50								16.8																													
5/50								17.2																													
4/50								17.6																													
3/50								18.0																													
2/50								18.4																													
1/50								18.8																													
0/50								19.2																													
TOTAL	11.150	12.106	3.3	.8	.7																																

Element (X)	$\Sigma g'$	$\Sigma g$	$\bar{X}$	$\sigma_g$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5159231	75227	83.6	2.512	900	≤ 6 F	≥ 37 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1353718	34665	38.5	9.753	900		270					
Wet Bulb	1259432	32950	36.6	7.660	900		260					
Dew Point	1094862	30460	33.8	6.418	900		301					

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

2

FEDERAL CLIMATOLOGY BRANCH  
WAFETAC  
U.S. WEATHER SERVICE

PSYCHROMETRIC SUMMARY

STATION 14 HAMSTEIN AB GERMANY

74-83

YEARS

MONTH

10 10-10-1950  
HOURS 10 5.7

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
57																		1	1	1															
58																		1	1	1															
59																		1	1	1															
60																		1	1	1															
61																		1	1	1															
62																		1	1	1															
63																		1	1	1															
64																		1	1	1															
65																		1	1	1															
66																		1	1	1															
67																		1	1	1															
68																		1	1	1															
69																		1	1	1															
70																		1	1	1															
71																		1	1	1															
72																		1	1	1															
73																		1	1	1															
74																		1	1	1															
75																		1	1	1															
76																		1	1	1															
77																		1	1	1															
78																		1	1	1															
79																		1	1	1															
80																		1	1	1															
81																		1	1	1															
82																		1	1	1															
83																		1	1	1															
84																		1	1	1															
85																		1	1	1															
86																		1	1	1															
87																		1	1	1															
88																		1	1	1															
89																		1	1	1															
90																		1	1	1															
91																		1	1	1															
92																		1	1	1															
93																		1	1	1															
94																		1	1	1															
95																		1	1	1															
96																		1	1	1															
97																		1	1	1															
98																		1	1	1															
99																		1	1	1															
100																		1	1	1															
TOTAL	11.0	55.42	5.7	1.8	.7	.7											900																		

Element (K)	ΣR	ΣR	Σ	Σs	No. Obs.	Mean No. of Hours with Temperature					Total
						+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	
Rel. Hum	6424924	75588	94.2	9.227	900						90
Dry Bulb	1372487	34377	36.2	8.129	900		21.7				90
Wet Bulb	1288985	32739	36.4	7.751	900		27.9				90
Dew Point	1085787	30905	33.7	8.521	900		39.0				90

USAFETAC FORM 0-20-5 (U.S.A.) WEATHER SERVICE BRANCH OF THE NATIONAL OBSERVATORY

FEDERAL BLYMATOLOGY BRANCH  
 WAFETAC  
 AIR WEATHER SERVICE/MAF

# PSYCHROMETRIC SUMMARY

1-147 HAMSTIN 3 SERANT 4-8 YEARS 40  
 STATION STATION NAME MONTH

PAGE 1 1950-11-2  
 HOURS 157

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
7/50																																					
7/57			.1					.1		.1																											
7/55			.1					.1		.1																											
7/51			1.1					.1																													
7/45		.2	.2	.2																																	
7/42		.1	.1	.1				.2																													
7/40	1.	1.0	1.0					.1																													
7/40		.3	.3	.3																																	
7/41	1.0	1.0	1.0					.1																													
7/37	1.2	1.2	1.2					.2																													
7/37		.3	.3	.3																																	
7/35		.3	.3	1.1																																	
7/37		.1	1.0	1.1			.1																														
7/31		.3	.2	.2																																	
7/29		.3	2.4	.2																																	
7/27		.4	.7	.7																																	
7/25		.4	1.4	.1																																	
7/24		.2	1.2	.2																																	
7/21		.2	.5																																		
7/19			.1																																		
7/17			.1																																		
7/15			.1																																		
7/14		.1																																			
7/11																																					
7/9																																					
TOTAL		7.767	9.22	7.7	2.7	.5	.5																														

Element (X)	Σ X'	Σ X	X	%	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	6270942	74742	43.7	8.825	933							
Dry Bulb	1405273	35361	39.3	7.897	930		17.2					7.2
Wet Bulb	1304805	33591	37.3	7.538	930		22.6					7.2
Dew Point	1130075	31009	34.5	8.283	930		36.2					9.0

FORM 0 26 5 10 LA  
 USAFETAC  
 1950-11-2

2

FEDERAL BUREAU OF SURVEY  
UNITED STATES DEPARTMENT OF COMMERCE  
OFFICE OF WEATHER SERVICE  
NOAA

PSYCHROMETRIC SUMMARY

1-141 LANSTEDT AB DENMARK

74-35

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point													
41				.1	.1																														
42				.4																															
43			.1	.4																															
44			.7	.4																															
45			1.4	.7																															
46			2.1	1.4																															
47			2.8	2.1																															
48			3.5	2.8	.4																														
49			4.2	3.5	1.1																														
50			4.9	4.2	2.8	.4																													
51			5.6	4.9	3.5	1.1																													
52			6.3	5.6	4.2	2.8	.4																												
53			7.0	6.3	4.9	3.5	1.1																												
54			7.7	7.0	5.6	4.2	2.8	.4																											
55			8.4	7.7	6.3	4.9	3.5	1.1																											
56			9.1	8.4	7.0	5.6	4.2	2.8	.4																										
57			9.8	9.1	7.7	6.3	4.9	3.5	1.1																										
58			10.5	9.8	8.4	7.0	5.6	4.2	2.8	.4																									
59			11.2	10.5	9.1	7.7	6.3	4.9	3.5	1.1																									
60			11.9	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																								
61			12.6	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																								
62			13.3	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																							
63			14.0	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																							
64			14.7	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																						
65			15.4	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																						
66			16.1	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																					
67			16.8	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																					
68			17.5	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																				
69			18.2	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																				
70			18.9	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																			
71			19.6	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																			
72			20.3	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																		
73			21.0	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																		
74			21.7	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																	
75			22.4	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																	
76			23.1	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4																
77			23.8	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1																
78			24.5	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4															
79			25.2	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1															
80			25.9	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4														
81			26.6	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1														
82			27.3	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4													
83			28.0	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1													
84			28.7	28.0	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4												
85			29.4	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1												
86			30.1	29.4	28.0	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4											
87			30.8	30.1	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1											
88			31.5	30.8	29.4	28.0	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4										
89			32.2	31.5	30.1	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1										
90			32.9	32.2	30.8	29.4	28.0	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4									
91			33.6	32.9	31.5	30.1	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1									
92			34.3	33.6	32.2	30.8	29.4	28.0	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4								
93			35.0	34.3	32.9	31.5	30.1	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1								
94			35.7	35.0	33.6	32.2	30.8	29.4	28.0	26.6	25.2	23.8	22.4	21.0	19.6	18.2	16.8	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	.4							
95			36.4	35.7	34.3	32.9	31.5	30.1	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7	6.3	4.9	3.5	1.1							
96			37.1	36.4	35.0	33.6	32.2</																												

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION: HANSTEIN AB GERMANY

74-03

YEARS

NO. / MONTH

1970-1970  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL D.B. W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26		27-28	29-30	≥31	Net Bulb	Dew Point
47-53				.2	.7													2		
47-51					.5													2		
47-50				.7	1.1	.4	.7											6	27	
47-57			.4	1.1	.4	.7												24	24	5
47-55			.7	1.1	.7	.1												1	21	3
47-53	.1	.5	1.9	2.7	.5	.1	.1											13	57	22 R
47-51	.1	.7	1.5	1.1	.1	.1												3	30	33 15
47-49		1.7	2.2	1.5	.1	.1												3	42	45 12
47-47		3.7	3.7	2.4	.2													4	44	54 37
47-45	.2	5.1	5.5	2.7	.7	.7												10	137	75 99
47-43	.1	3.2	5.7	3.3	.7	.7												11	121	107 60
47-41		3.9	4.3	2.2	.1	.1												7	67	57 60
47-39		2.7	1.2	2.2	.1													5	67	106 71
47-37	.7	3.7	2.9	1.1	.1													59	69	96 73
47-35		1.4	1.1	1.5	.2													1	61	85 65
47-33		.6	.3	.9	.3													1	21	33 95
47-31		.7	.3	.5														1	19	34 54
47-29		.7	1.7															1	15	21 50
47-27		.2	.1															1	7	21 63
47-25																				7 30
47-23																				1
47-21																				1
47-19																				1
47-17																				1
47-15																				1
47-13																				1
47-11																				1
47-9																				1
TOTAL	1.237	4.337	5.524	5.463	1.111	.1												900	80	900
																				900

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5341547	54454	73.8	2.255	900	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1317237	35962	40.4	6.907	900		3.6					3.6
Wet Bulb	1539611	36751	40.8	5.579	900		3.7					3.7
Dew Point	1241111	52629	36.3	8.348	900		27.2					27.2

USAFETAC FORM 0-26-5 (OL A) 1-74 USE PREVIOUS EDITIONS UNLESS THIS IS SPECIFICALLY INDICATED





FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

LEBING RAMSTEIN AB GERMANY 74-53 NOV  
STATION STATION NAME YEARS MONTH

PAGE 2170-2300  
HOURS (U.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point																		
59 / 59			.0	.0																																			
58 / 57			.1	.2																																			
56 / 55		.4	.4	1.0	.3																																		
47 / 53		.0	.4	.9	.1																																		
52 / 51		1.6	3.0																																				
50 / 49	.2	.9	1.3																																				
45 / 47	.2	3.7	1.4	.4																																			
45 / 45	.7	5.3	5.1	.4																																			
44 / 45	.3	5.2	2.7	.5	.1																																		
42 / 41	.7	5.6	3.2	.2	.2																																		
40 / 39	.1	6.7	1.9	.4																																			
38 / 37	1.7	7.7	1.5	.1																																			
38 / 35	.4	6.1	3.1	.2																																			
34 / 33	.2	3.7	1.9	.4																																			
32 / 31		1.9	.9	.1																																			
30 / 29	.1	2.9	1.4																																				
28 / 27	.8	3.5	1.2																																				
24 / 25	.5	1.2	.1																																				
24 / 23	.3	.4																																					
22 / 21	.1																																						
20 / 19		.1																																					
18 / 17																																							
16 / 15																																							
14 / 13																																							
12 / 11																																							
10 / 9																																							
TOTAL		6.357	330.1	5.4	.3																																		

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

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	6597999	73543	81.7	9.920	900							
Dry Bulb	1498765	36099	47.1	7.520	900		14.1					90
Wet Bulb	1338747	34105	37.9	7.161	900		19.6					90
Dew Point	1150047	31339	34.8	8.587	900		33.4					90

2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAJ

# PSYCHROMETRIC SUMMARY

146140 KAMSTEIN AB GERMANY 74-83 NOV  
 STATION MONTH  
 STATION NAME YEARS  
 PAGE ALL  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	TOTAL																	
																			Dry Bulb	Wet Bulb	Dew Point															
54					.2																															
51					.3																															
59				.3	.1	.1																														
57		.2	.3	.5	.1	.1																														
55		.4	.7	.5	.0	.1																														
53	.1	.7	1.1	.5	.2	.0																														
51	.3	1.7	2.7	.3	.0	.0																														
49	.1	1.1	1.9	.5	.1	.0																														
47	.0	3.4	1.6	.7	.1	.0																														
45	.5	5.4	3.6	1.0	.1	.1																														
43	.3	4.3	3.5	.5	.2	.1																														
41	.5	6.7	3.1	.5	.1	.0																														
39	.5	5.5	2.5	.5	.0																															
37	1.0	5.7	2.4	.3	.0																															
35	.3	5.6	2.2	.2	.0																															
33	.3	4.1	1.5	.4	.1																															
31	.2	2.4	1.7	.2																																
29	.1	2.4	1.7	.1																																
27	.9	2.7	.3																																	
25	.3	1.7	.1																																	
23	.2	.9																																		
21	.2	.3																																		
19	.0	.3																																		
17	.2																																			
15	.1																																			
13	.7	.0																																		
11																																				
9																																				
7																																				
TOTAL	5.3	53.7	32.2	8.1	1.3	.4	.0																													

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$s_x^2$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	47553485	583751	40.7	10.509	7200		106.1					720
Wet Bulb	12375466	292244	40.5	7.848	7200		152.0					720
Dew Point	10896513	275023	38.2	7.372	7200		267.4					720
	9260688	251390	34.9	8.194	7200							720

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

170140 DAMSTEIN AB GERMANY 74-83 D C  
STATION STATION NAME YEARS MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
47/53		.5	.4		.2													17	17		
47/51		.5	.5	.2														14	14	9	1
50/49		.8	1.4	.6														21	25	7	7
47/47		2.7	.1		.1													2	22	25	11
45/45	.5	2.9	2.2	.6														5	65	56	1
44/43	.1	2.6	1.7	.4														4	45	29	41
42/41	.2	2.3	.6	.6														3	35	55	16
40/39	.4	5.2	2.8	.1														7	73	47	35
36/37	1.6	4.4	4.1															12	72	79	55
36/35	2.4	7.4	2.9															11	115	124	63
34/33	1.4	5.1	2.8	.3														8	39	119	75
32/31	1.0	3.4	1.2	.3														5	55	86	92
30/29	.9	3.4	1.1	.2														1	51	55	87
28/27	1.5	3.4	.6															2	32	56	79
26/25	1.4	2.8	.3															2	42	52	63
24/23	1.2	2.5	.3															3	33	43	58
22/21	1.2	1.4	.3															27	37	32	45
20/19	1.1	1.1																0	20	24	35
18/17	.3	1.2																14	14	15	30
16/15	1.0	.3																12	12	20	11
14/13	.4	.3																7	7	7	1
12/11	.4																	4	4	5	2
10/9	.4																	4	4	4	11
8/7	.1																	1	1	1	7
6/5																					0
TOTAL	17.3	33.9	24.5	3.5	.4													930	930		930
Element (X)	ΣX <sup>2</sup>	ΣX	Σ	Σ <sub>n</sub>	No. Obs.	Moon No. of Hours with Temperature						Total									
Rel. Hum.	6425623	75625	82.4	17.995	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1274617	32436	34.9	8.896	930		32.2					92									
Wet Bulb	1091754	30736	33.0	8.425	930		40.0					93									
Dew Point	913319	27779	29.9	9.312	930		55.2					92									

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

FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

140 HAMSTEIN AB GERMANY  
 STATION STATION NAME

74-83  
 YEARS

DEC  
 MONTH

PAGE 1 0300-0500  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥31	Dry Bulb	Wet Bulb
54/ 53																		7	7	
52/ 51			.4	.6														12	17	8
50/ 49			.4		.4													15	17	11
48/ 47			2.4	1.7														1	31	14
46/ 45	.3	3.5	3.1	.5														7	71	47
44/ 43	.3	1.9	1.7	.4														41	41	35
42/ 41	.1	3.7	1.5	.4														42	45	49
40/ 39	.4	4.4	2.6	.5														75	75	49
38/ 37	1.9	4.3	2.3															74	75	56
36/ 35	1.6	4.2	3.1															120	120	101
34/ 33	1.5	4.2	2.7															7	40	124
32/ 31	.2	4.4	1.5															5	35	53
30/ 29	1.7	4.4	.3															3	53	74
28/ 27	2.3	3.7	1.5															70	70	54
26/ 25	.5	2.2	.3															27	27	35
24/ 23	.4	2.5	.2															22	12	35
22/ 21	2.3	2.2	.5															45	45	47
20/ 19	1.2	1.5																25	25	33
18/ 17	.5	.4																5	9	25
16/ 15		.7																5	5	6
14/ 13	.2	.4																5	6	6
12/ 11	.4	.3																7	7	6
10/ 9	.6																	5	5	8
8/ 7	.3																	7	7	7
6/ 5	.2																	2	2	2
4/ 3																				
TOTAL	17.2	56.1	23.5	2.7	.2													970	931	930

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1155224	31785	34.2	9.211	930		35.1					93
Wet Bulb	1048194	30146	32.4	8.743	930		42.1					93
Dew Point	881546	27236	29.3	9.504	930		55.9					93

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

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

10140 WAHSTEIN AB GERMANY 74-83 050  
 STATION STATION NAME YEARS MONTH

PAGE 1 0500-0800  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
54/ 53			.2	.1														0	4		
52/ 51		1.1	.7	.1														19	12	5	
50/ 49		.8	.4	.4														13	13	10	6
48/ 47		1.4	1.1	.2														25	25	18	12
46/ 45	.3	4.8	2.9	.5														79	79	43	20
44/ 43		2.3	2.5															44	44	53	24
42/ 41	.6	3.6	2.7	.2														41	41	49	31
40/ 39	.2	4.1	1.5	.1														5	35	72	37
38/ 37	1.9	2.4	2.3	.1														72	72	72	41
36/ 35	.4	7.8	2.3	.1														49	49	70	77
34/ 33	1.7	5.3	1.9	.3														16	88	110	54
32/ 31	.3	4.2	1.7	.1														53	53	93	54
30/ 29	.8	5.4	.4															43	33	77	94
28/ 27	3.6	4.9	.5															30	30	46	99
26/ 25	.3	1.9	.5															27	27	43	55
24/ 23	.9	2.3																24	23	27	44
22/ 21	1.0	2.0	.4															40	4	43	41
20/ 19	1.1	1.3																2	22	22	27
18/ 17	.4	1.1																14	14	21	32
16/ 15	1.2	.4																15	15	24	37
14/ 13		.4																4	4	4	38
12/ 11		.5																5	5	4	11
10/ 9	.5	.1																5	6	7	23
8/ 7	.1	.1																2	2	2	15
6/ 5	.5																	2	2	2	7
4/ 3																		2	2	2	7
TOTAL	15.2	58.5	22.9	2.4														970	970	970	970

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5445492	76832	82.6	10.271	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1161218	31718	34.1	9.249	930		37.1					93
Wet Bulb	1344289	30075	32.3	8.785	930		44.7					93
Dew Point	379949	27175	29.2	9.615	930		55.9					93

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

1  
2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAL

# PSYCHROMETRIC SUMMARY

14147 RAHSTEIN AB GERMANY 74-62 YEARS MONTH 9°C

PAGE 1 0930-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
55/55				.1																	
54/53			.2	.2																	
52/51		.7	.5		.1													12	17		
50/49		.9	.9	.4														16	15	17	
48/47	.1	2.3	1.7	.2														3	53	71	9
46/45	.2	4.5	2.2	.5														77	77	45	37
44/43		7.7	2.6	.5														4	54	51	34
42/41	.2	7.5	1.2	.1														0	50	45	43
40/39	.2	4.8	1.5															4	54	47	49
38/37	1.9	3.2	2.8															61	67	45	55
36/35	.1	5.5	2.2	.2														12	52	51	74
34/33	1.4	5.2	5.2	.5														26	26	27	91
32/31	.3	5.1	2.5															27	77	106	67
30/29	.5	5.3	.3															20	50	93	78
28/27	2.7	4.7	1.4															12	32	61	105
26/25	.4	2.6	.5															24	34	47	65
24/23	.3	1.5	.5															27	27	36	49
22/21	1.1	1.5	.4															22	22	32	41
20/19	.3	1.3																15	17	25	29
18/17	.4	.5	.1															11	11	21	29
16/15	.8	.4	.1															12	12	15	26
14/13		.3																3	3	4	22
12/11	.3																	2	2	4	14
10/9	.5																	2	2	3	10
8/7	.2	.2																4	4	4	6
6/5	.4																	5	4	4	4
4/3																		4	4	4	4
2/1																		4	4	4	4
TOTAL	14.7	55.7	26.5	3.2	.1													930	930	930	930

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

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	6333132	76142	81.91	0.331	930							
Dry Bulb	1181757	32073	34.5	9.024	930		37.0					93
Wet Bulb	1059098	30352	32.6	8.588	930		45.7					93
Dew Point	885805	27309	29.4	9.503	930		56.4					93

GLOBAL CLIMATOLOGY BRANCH  
JAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

18147  
STATION

RANSTEIN AB GERMANY  
STATION NAME

74-83  
YEARS

DEC  
MONTH

PERIOD: 1200-1400  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL				TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 55				.4	.1													12	12		
54/ 53			.7	.3	.3													15	15		
52/ 51		.7	.4	.3	.2													1	21	17	1
50/ 49	.1	.9	.9	.4	.1													49	49	34	5
49/ 47		2.7	1.7	.8														1	91	56	28
47/ 46		4.5	3.1	1.5														31	59	58	47
44/ 43	.2	2.7	2.3	.5														57	57	50	36
42/ 41	.5	2.5	1.9	1.3	.1													14	74	56	35
40/ 39		6.1	1.7	.2														5	55	46	44
37/ 37	1.3	4.6	2.7	.8														9	99	71	91
36/ 35	.1	5.5	4.7	.9														1	82	117	92
34/ 33	1.1	5.1	3.3	.4														67	67	126	75
32/ 31	.7	3.9	1.8	.5	.1													3	53	62	57
30/ 29	.3	4.4	1.7	.3														1	91	46	132
28/ 27	1.2	3.5	2.4	.2														17	17	72	58
26/ 25	.5	.8	.5															17	17	25	43
24/ 23	.5	1.7	.1															9	9	15	36
22/ 21	.3	.5	.1															7	7	11	28
20/ 19	.5	.1																3	3	7	34
18/ 17	.4	.2																2	2	2	14
16/ 15		.2																			
14/ 13		.2																			
12/ 11																					
10/ 9																					
8/ 5																					1
TOTAL	0.55	2.13	1.2	0.1	1.2													970		930	
Element (X)	ΣX <sup>2</sup>	ΣX	X̄	S <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	5956908	73546	79.2	11.592	933	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total									
Dry Bulb	1330051	34423	37.8	7.753	933		27.1					93									
Wet Bulb	1168827	32257	34.7	7.336	933		37.3					93									
Dew Point	954212	23762	25.5	6.345	933		51.6					93									

REVISED METHODS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OLA)

AA 64

USAFETAC

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION: RAMSTEIN AB GERMANY YEARS: 74-80 MONTH: DEC  
 PERIOD: 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
56/ 57					.2													2	2																
55/ 55					.2	.2												2	2																
54/ 53			.4	.4	.4	.5												14	14																
52/ 51			.4	.4	.9	.4												23	23	8															
50/ 49		1.1	1.1	.2	.1													2	2	10	6														
48/ 47		2.7	1.4	.5														45	45	35	1														
46/ 45	.2	4.3	5.7	1.7	.1													102	102	60	45														
44/ 43	.3	1.3	2.6	1.5	.4													2	62	61	37														
42/ 41	.1	3.7	1.7	1.7	.2													3	63	65	61														
40/ 39	.2	4.6	2.5	1.2														2	62	51	53														
38/ 37	1.6	3.7	2.5	1.2														5	65	53	57														
36/ 35		6.4	5.2	.5	.3													115	115	72	78														
34/ 33	1.6	5.7	3.2	.9	.1													106	104	135	84														
32/ 31	.9	3.0	1.3	.6	.1													5	65	134	78														
30/ 29	.4	3.1	2.8	.4	.3													5	66	42	60														
28/ 27	.5	2.4	2.3															45	48	57	124														
26/ 25	.9	.5																15	13	60	65														
24/ 23	.1	1.1																11	11	19	47														
22/ 21	.1	.5																5	5	8	37														
20/ 19	.4																	4	4	7	43														
18/ 17																					16														
16/ 15																					1														
14/ 13																					5														
12/ 11																					1														
10/ 9																					7														
8/ 7																					7														
6/ 5																					3														
TOTAL	7.4	44.5	32.6	12.6	2.9													929	929	929	929														

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Ref. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb	1398164	35419	38.1	7.181	929		20.3					93
Wet Bulb	1210049	32929	35.4	6.796	929		32.9					93
Dew Point	970367	29078	31.3	8.055	929		52.2					93

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





GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAA

# PSYCHROMETRIC SUMMARY

106140 RAMSIEIN AB GERMANY 74-83 DFC  
 STATION STATION NAME YEARS MONTH  
 PERIOD 2100-2300  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
47/53		.3		.3														17	17	5	
47/51		.3	.1	.5		.2												17	17	2	6
45/49		.7	1.7	.5														31	31	3	1
45/47		2.7	.2	.4														40	40	34	
43/45	.2	3.5	2.9	.5														57	57	43	47
44/43		2.6	2.7	.8														57	57	43	47
42/41	.1	4.1	.9	.8														57	57	43	47
40/39	.4	4.7	2.5															54	54	51	57
38/37	1.1	3.7	3.7	.1														118	118	106	75
38/35	2.2	5.8	4.1	.6														118	118	106	75
34/33	1.9	4.1	2.3	.2														59	59	108	71
32/31	.8	4.1	1.5															59	59	108	71
30/29	.5	3.9	1.7															57	57	52	55
28/27	3.7	3.5	2.7															57	57	52	55
26/25	1.2	2.7	.3															35	35	56	73
24/23	.8	2.0	.3															1	31	34	53
22/21	1.5	.5	.7															2	22	31	46
20/19	.5	1.5																0	20	17	37
18/17	.4	.5																10	17	24	22
16/15	.5	.3																6	6	7	29
14/13		.3																3	3	5	11
12/11	.3	.1																4	4	4	10
10/9																					11
8/7																					4
6/5																					7
4/3																					1
TOTAL	15.35	1.22	7.3	4.9	.2													970	970	930	930

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	63.9	22.9	1	11.166	930							93
Dry Bulb	120.8	57.7	1	8.323	930		53.1					93
Wet Bulb	108.0	58.7	1	7.926	930		41.4					93
Dew Point	93.5	30.5	1	8.577	930		56.5					93

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

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAG

# PSYCHROMETRIC SUMMARY

135143 RAMSTEIN AB GERMANY 74-83 DEC MONTH  
STATION STATION NAME YEARS

PAGE 1 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
57/ 57				.1	.1													2	2																
55/ 55			.1	.1	.1													14	14																
54/ 53		.1	.1	.1	.1													7	7																
52/ 51		.1	.1	.1	.1	.1												12	12	57	1														
50/ 49	.1	.1	1.1	.4	.1													103	153	89	1														
48/ 47	.1	2.4	1.1	.1	.1													275	276	197	53														
46/ 45	.1	4.2	3.7	.1	.1													543	643	399	284														
44/ 43	.1	2.3	2.1	.1	.1													420	421	320	264														
42/ 41	.1	3.7	1.6	.7	.1													427	427	479	327														
40/ 39	.1	4.7	1.1	.1	.1													510	510	424	340														
38/ 37	1.5	3.9	2.5	.1	.1													535	536	628	377														
36/ 35	.1	5.5	3.8	.1	.1													566	566	582	617														
34/ 33	1.5	4.9	3.1	.1	.1													730	730	925	710														
32/ 31	.1	4.2	1.1	.1	.1													505	505	880	569														
30/ 29	.1	4.7	1.1	.1	.1													476	476	519	663														
28/ 27	2.1	3.9	1.9	.1	.1													500	500	485	561														
26/ 25	.1	1.9	.1	.1	.1													221	221	428	529														
24/ 23	.1	1.7	.1	.1	.1													193	193	244	333														
22/ 21	1.1	1.2	.1	.1	.1													192	192	227	299														
20/ 19	.1	.1	.1	.1	.1													125	125	162	256														
18/ 17	.1	.1	.1	.1	.1													70	77	121	242														
16/ 15	.1	.1	.1	.1	.1													50	50	81	209														
14/ 13	.1	.1	.1	.1	.1													25	25	30	133														
12/ 11	.1	.1	.1	.1	.1													27	23	23	85														
10/ 9	.1	.1	.1	.1	.1													1	21	24	107														
8/ 7	.1	.1	.1	.1	.1													14	14	14	40														
6/ 5	.1	.1	.1	.1	.1													11	11	11	30														
4/ 3	.1	.1	.1	.1	.1																10														
2/ 1	.1	.1	.1	.1	.1																4														
TOTAL	13.5	52.5	27.9	5.5	.5														7439		7439														

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

Element (X)	Σx'	Σx	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	49325497	602973	81.1	11.308	7439							
Dry Bulb	9925242	264206	35.5	8.533	7439		251.5					744
Wet Bulb	8820575	249061	33.5	8.049	7439		324.9					744
Dew Point	7319501	223557	30.1	9.933	7439		438.4					744



GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/44C

# PSYCHROMETRIC SUMMARY

176140 RAMSTEIN AB GERMANY 74-83 ALL  
 STATION STATION NAME YEARS MONTH

0615 ALL  
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
30/ 29	.2	2.0	.6	.1	.0													74 5	2456	2788	401.6
28/ 27	.5	1.8	.6	.3														26 7	2699	2595	562.6
26/ 25	.7	.7	.1	.0														953	560	1905	2724
24/ 23	.1	.4	.1															734	734	990	2351
22/ 21	.3	.3																517	517	745	1642
20/ 19	.7	.3																422	422	494	1257
18/ 17	.1	.2																276	276	450	946
16/ 15	.0	.2																116	168	250	730
14/ 12	.0	.1																106	106	129	483
12/ 11	.1	.1																83	93	86	362
10/ 9	.1	.1																103	103	170	420
8/ 7	.3	.0																38	34	41	163
6/ 5	.0	.0																20	30	47	113
4/ 3	.0	.0																17	17	15	53
2/ 1	.0																	0	7	5	33
0/ -1																					3
-2/ -3																					6
-4/ -5																					6
TOTAL	5.2	35.0	26.4	12.2	6.8	4.7	3.4	2.3	1.5	.9	.4	.2	.1	.1	.0	.0	.0	7639	7521	8750	17521

Element (X)	Σ X'	Σ X	X	n	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	499372815	5462473	73.9	15.235	87521							
Dry Bulb	223878509	8252793	48.5	14.134	87639		1088.1	892.2	467.4	161.2	6.3	3762
Wet Bulb	183220280	3870904	44.2	11.620	87521		1488.6	110.4	2.6			8767
Dew Point	147755767	3475983	39.7	11.563	87521	4.3	2463.8	3.7	.2			8760

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

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

175143 RAMSTEIN AB GERMANY

74-83

STATION		YEARS												
STATION NAME		YEARS												
HRS	LIST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	33.4	32.6	39.1	41.0	48.7	56.0	59.2	59.4	53.5	45.4	39.6	34.9	45.3
	S D	9.250	7.143	7.210	7.019	6.526	6.128	5.782	5.393	5.324	7.091	7.687	8.996	11.775
	TOTAL OBS	925	846	930	999	930	900	930	930	900	930	900	930	10953
03-05	MEAN	32.6	31.9	37.5	38.2	45.6	52.8	56.0	55.3	51.3	44.2	38.5	34.2	43.3
	S D	9.402	7.865	7.675	7.047	6.868	6.302	5.730	5.795	6.731	7.319	8.053	9.211	11.292
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN	32.6	31.4	35.9	37.5	46.3	53.7	56.5	54.7	50.4	44.0	38.2	34.1	43.1
	S D	9.507	8.156	8.134	6.983	6.712	6.216	5.931	6.092	6.879	7.191	8.129	9.249	11.499
	TOTAL OBS	930	846	930	900	930	900	930	928	900	930	900	930	10954
09-11	MEAN	33.0	32.3	39.8	45.2	54.3	61.6	64.8	63.1	56.2	46.4	39.3	34.5	47.7
	S D	9.516	7.493	7.390	7.066	7.261	7.059	7.345	6.314	6.084	7.072	7.890	9.024	13.777
	TOTAL OBS	930	846	930	900	930	899	930	930	900	930	900	930	10955
12-14	MEAN	35.6	37.5	45.2	51.7	59.9	67.2	70.5	70.1	64.1	51.4	42.8	37.0	52.8
	S D	8.534	6.748	6.939	8.474	8.805	8.739	9.142	7.419	6.852	7.560	7.158	7.758	14.952
	TOTAL OBS	930	846	930	900	930	900	930	929	900	930	900	930	10955
15-17	MEAN	37.4	40.2	47.9	53.9	62.1	69.1	73.1	72.4	66.5	53.8	44.4	38.1	55.0
	S D	7.956	7.005	7.400	9.048	9.307	9.171	9.587	7.797	7.561	7.972	6.902	7.181	15.239
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	929	10955
18-20	MEAN	35.5	37.7	46.0	52.4	60.8	67.9	71.8	70.7	63.2	50.5	41.3	35.3	53.0
	S D	8.175	6.405	7.045	8.532	8.991	8.739	9.158	7.678	7.031	7.285	6.990	7.483	15.262
	TOTAL OBS	930	845	930	900	930	900	930	930	900	930	900	930	10955
21-23	MEAN	34.0	34.2	41.3	45.4	53.9	61.3	64.9	62.8	56.3	46.8	40.1	35.1	48.1
	S D	8.793	6.104	6.651	7.076	7.359	7.161	7.428	6.354	5.988	6.884	7.520	8.323	13.135
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10954
ALL HOURS	MEAN	34.3	34.6	41.7	45.7	54.0	61.2	64.5	63.4	57.7	47.8	40.6	35.5	48.5
	S D	9.075	7.754	8.274	9.780	9.922	9.665	9.931	9.330	8.842	8.055	7.848	8.533	14.134
	TOTAL OBS	7438	6767	7440	7199	7440	7199	7440	7437	7200	7440	7200	7439	87639

GLOBAL CLIMATOLOGY BRANCH  
 JRAFETAC  
 AIR WEATHER SERVICE/MAC

### MEANS AND STANDARD DEVIATIONS

NET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

176140 RAMSTEIN AB GERMANY

74-83

STATION		STATION NAME												YEARS
HRS	LAST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	31.1	31.0	36.4	35.1	45.4	52.7	55.3	54.9	50.7	43.5	37.6	33.1	42.5
	S D	5.573	5.301	5.947	6.490	5.891	5.788	5.230	4.814	5.554	6.610	7.451	5.425	10.978
	TOTAL OBS	925	846	930	898	930	900	930	930	900	918	900	930	10937
03-12	MEAN	31.0	30.2	35.2	35.0	43.1	50.3	53.0	52.5	48.9	42.4	36.5	32.4	41.0
	S D	5.822	7.510	7.324	6.700	5.432	6.062	5.431	5.409	6.137	6.811	7.664	8.743	10.751
	TOTAL OBS	927	846	930	900	930	900	930	930	900	918	900	930	10941
05-13	MEAN	30.9	29.8	34.5	35.5	43.5	50.9	53.4	51.0	48.1	42.2	36.4	32.3	40.9
	S D	7.011	7.810	7.719	6.563	5.290	5.932	5.457	5.630	6.305	6.784	7.751	8.785	10.910
	TOTAL OBS	926	846	930	900	930	900	930	928	900	918	900	930	10938
05-11	MEAN	31.3	30.9	36.9	40.9	48.7	55.7	58.2	57.5	52.5	44.1	37.3	32.6	44.0
	S D	5.994	7.225	6.993	5.981	5.650	5.559	5.409	4.535	5.238	6.529	7.538	8.586	11.940
	TOTAL OBS	924	846	930	900	930	899	929	927	900	900	900	930	10935
10-14	MEAN	33.5	34.5	40.3	44.1	51.1	57.6	59.2	59.2	55.7	47.5	39.8	34.7	46.8
	S D	7.711	5.224	5.298	6.248	5.933	5.810	5.699	4.543	5.345	6.231	6.735	7.336	11.677
	TOTAL OBS	927	845	930	900	930	900	930	929	900	921	900	930	10942
15-17	MEAN	34.7	36.1	41.8	45.0	51.9	58.2	61.0	60.8	57.4	48.9	40.8	35.4	47.7
	S D	7.402	6.154	5.358	6.190	5.847	5.720	5.556	4.518	5.454	6.113	6.578	6.795	11.411
	TOTAL OBS	926	846	930	900	930	900	930	930	900	921	900	929	10942
15-20	MEAN	33.3	34.5	40.7	44.2	51.2	57.8	60.5	60.2	56.1	47.1	39.2	34.1	46.6
	S D	7.505	5.895	5.373	5.995	5.728	5.526	5.413	4.570	5.229	6.749	5.803	7.075	11.692
	TOTAL OBS	927	845	930	900	930	900	930	930	899	921	900	930	10942
21-23	MEAN	32.1	32.0	37.9	40.8	48.4	55.4	58.2	57.3	52.6	44.5	37.9	33.2	44.2
	S D	5.142	5.935	5.543	6.107	5.780	5.547	5.395	4.655	5.242	5.351	7.181	7.826	11.418
	TOTAL OBS	927	846	930	900	930	900	930	930	900	921	900	930	10944
ALL HOURS	MEAN	32.3	32.4	36.0	40.5	47.9	54.8	57.5	55.9	52.9	45.0	38.2	33.5	44.2
	S D	5.823	7.076	7.276	7.214	5.789	5.471	5.212	5.354	5.505	6.379	7.372	8.049	11.520
	TOTAL OBS	7409	6756	7440	7198	7440	7199	7439	7434	7199	7358	7200	7439	87521

FEDERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

105140 RAMSTEIN AB GERMANY  
STATION STATION NAME

74-83  
YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-37	MEAN	23.4	27.5	32.2	34.0	41.3	49.3	52.2	52.0	48.2	41.4	34.7	29.9	39.4
	S D	5.972	7.923	8.355	7.453	5.624	6.553	5.913	5.258	5.825	6.893	8.153	9.312	11.642
	TOTAL OBS	925	845	930	993	930	900	930	930	900	918	900	930	10937
00-35	MEAN	27.5	26.8	31.3	32.6	40.0	47.9	50.5	50.2	45.6	40.3	33.8	29.3	38.2
	S D	9.355	8.518	8.527	7.494	7.063	5.699	5.032	5.353	5.429	7.047	8.418	9.504	11.500
	TOTAL OBS	927	845	930	900	930	900	930	930	900	918	900	930	10941
05-33	MEAN	27.7	26.4	30.9	32.4	40.5	48.4	50.5	49.7	45.9	40.2	33.7	29.2	36.0
	S D	9.605	8.813	8.774	7.420	5.903	6.556	5.028	6.014	5.574	7.051	8.521	9.515	11.619
	TOTAL OBS	926	845	930	900	930	900	930	928	900	918	900	930	10938
07-11	MEAN	23.0	27.3	32.7	35.6	43.2	50.3	53.4	53.2	49.3	41.8	34.5	29.4	40.0
	S D	9.552	8.364	8.204	6.962	5.437	6.337	5.941	4.931	5.634	6.720	8.283	9.503	12.052
	TOTAL OBS	924	845	930	900	930	899	929	927	900	920	900	930	10935
12-14	MEAN	29.8	29.6	33.9	35.2	42.3	50.3	52.9	53.2	50.5	43.8	36.0	30.9	40.8
	S D	8.546	7.568	8.395	7.871	7.072	5.790	6.250	5.441	6.395	5.414	7.688	8.345	11.499
	TOTAL OBS	927	845	930	900	930	900	930	929	900	921	900	930	10942
15-17	MEAN	30.4	29.9	33.8	34.7	42.3	50.0	52.5	52.5	50.3	44.2	36.3	31.3	40.7
	S D	8.392	7.725	8.934	8.153	7.231	6.771	5.173	5.428	6.694	6.413	8.044	8.055	11.338
	TOTAL OBS	926	845	930	900	930	900	930	930	900	921	900	929	10942
18-20	MEAN	29.6	29.3	33.5	34.4	42.1	50.0	52.5	52.7	50.5	43.6	35.5	30.6	40.4
	S D	8.270	7.481	8.008	8.172	7.159	6.762	6.142	5.491	6.176	6.562	7.969	8.101	11.527
	TOTAL OBS	927	845	930	900	930	900	930	930	899	921	900	930	10942
21-23	MEAN	23.7	28.1	32.9	34.8	42.3	50.5	53.2	53.1	49.5	42.0	34.3	30.0	40.1
	S D	8.610	7.331	8.605	7.639	5.855	6.573	6.127	5.224	5.672	6.535	8.087	8.677	11.760
	TOTAL OBS	927	845	930	900	930	900	930	930	900	921	900	930	10944
ALL HOURS	MEAN	29.8	28.1	32.6	34.2	41.9	49.7	52.3	52.1	48.9	42.2	34.9	30.1	39.7
	S D	8.985	8.075	8.652	7.727	7.010	6.687	5.156	5.613	5.410	6.873	8.194	8.938	11.663
	TOTAL OBS	7439	5756	7400	7198	7400	7199	7439	7434	7199	7358	7200	7439	87521





























FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

120140  
 STATION

RAMSTEIN AB GERMANY  
 STATION NAME

74-83

PERIOD

ALL  
 MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.9	99.6	97.1	81.2	53.3	27.0	80.7	7429
FEB		100.0	100.0	99.9	99.1	95.3	89.5	69.9	47.7	16.6	77.5	6156
MAR		100.0	99.9	99.1	96.9	89.7	75.8	56.5	32.0	8.3	71.5	7442
APR		100.0	99.9	96.6	88.0	73.0	55.3	31.0	30.7	7.2	67.0	7198
MAY		100.0	100.0	96.0	88.5	77.8	55.3	31.2	27.7	8.1	65.0	7440
JUN		100.0	99.9	98.1	92.7	81.5	66.9	52.4	29.1	1.1	65.5	7159
JUL		100.0	99.9	98.0	91.7	73.5	52.5	49.3	25.7	9.0	67.1	7439
AUG		100.0	100.0	99.1	93.2	81.2	67.7	54.5	28.0	1.9	69.0	7434
SEP		100.0	100.0	99.7	97.7	91.2	75.6	64.6	37.0	17.3	74.3	7199
OCT		100.0	100.0	100.0	99.9	98.5	94.2	84.3	58.9	23.1	81.3	7358
NOV		100.0	100.0	100.0	99.8	99.2	95.4	82.5	54.9	18.6	81.7	7200
DEC		100.0	100.0	100.0	99.7	99.4	95.8	78.5	55.7	25.5	81.1	7439
TOTALS		100.0	100.0	98.9	95.5	89.3	79.8	64.7	40.1	14.1	73.5	87521

USAFETAC

FORM  
 JUL 64

0-87-5 (OL A)

U S AIR FORCE  
 ENVIRONMENTAL TECHNICAL  
 APPLICATIONS CENTER

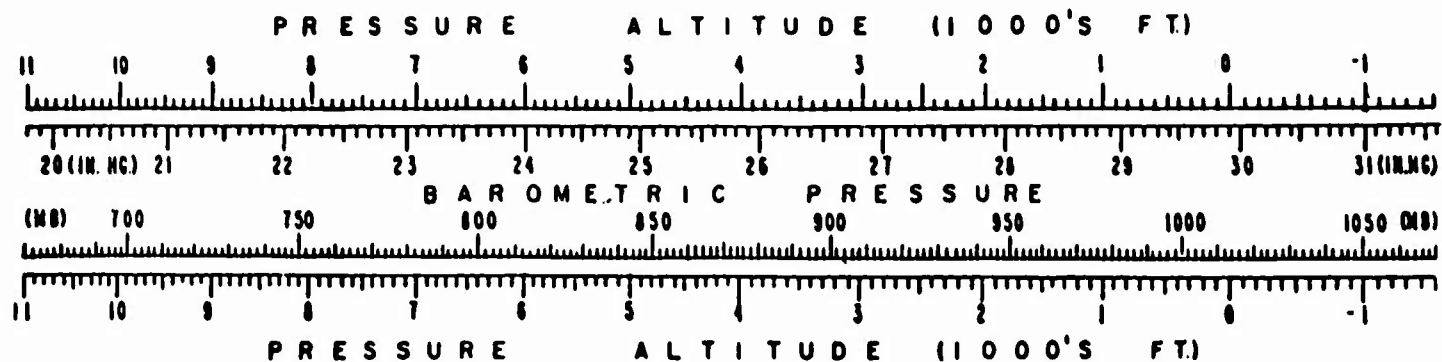
PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.  
 Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.  
 METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

### MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

135140 RAMSTEIN AB GERMANY

74-83

STATION

STATION NAME

YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNA
01	MEAN	29.214	29.174	29.133	29.129	29.134	29.189	29.201	29.205	29.230	29.156	29.227	29.143	29.176
	S D	.325	.330	.269	.201	.184	.150	.133	.135	.165	.266	.285	.388	.254
	TOTAL OBS	309	282	310	299	310	300	310	310	300	310	300	310	3650
04	MEAN	29.211	29.167	29.096	29.123	29.126	29.183	29.195	29.199	29.224	29.156	29.222	29.135	29.170
	S D	.318	.331	.271	.203	.189	.153	.135	.137	.191	.271	.283	.394	.255
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
07	MEAN	29.204	29.159	29.093	29.122	29.130	29.188	29.196	29.202	29.222	29.152	29.217	29.128	29.167
	S D	.318	.334	.272	.205	.192	.155	.137	.138	.193	.275	.282	.394	.256
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
10	MEAN	29.213	29.175	29.110	29.137	29.140	29.198	29.205	29.212	29.242	29.169	29.235	29.141	29.182
	S D	.315	.338	.272	.206	.194	.155	.138	.137	.194	.278	.281	.395	.257
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	29.224	29.192	29.110	29.129	29.133	29.193	29.202	29.209	29.237	29.169	29.236	29.144	29.180
	S D	.315	.337	.269	.205	.189	.154	.135	.133	.192	.276	.280	.394	.256
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
15	MEAN	29.198	29.158	29.094	29.106	29.116	29.174	29.183	29.191	29.215	29.149	29.211	29.122	29.159
	S D	.316	.330	.262	.201	.185	.151	.134	.130	.197	.270	.278	.388	.252
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
19	MEAN	29.205	29.162	29.098	29.108	29.106	29.160	29.169	29.180	29.206	29.151	29.215	29.132	29.155
	S D	.319	.325	.259	.197	.179	.150	.133	.130	.184	.265	.278	.386	.250
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
22	MEAN	29.215	29.177	29.097	29.123	29.127	29.178	29.183	29.198	29.228	29.168	29.223	29.142	29.171
	S D	.321	.325	.253	.198	.176	.149	.132	.130	.187	.267	.289	.386	.252
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
ALL HOURS	MEAN	29.211	29.169	29.096	29.121	29.127	29.183	29.191	29.199	29.225	29.160	29.223	29.136	29.170
	S D	.317	.331	.257	.202	.185	.152	.135	.134	.190	.271	.282	.39	.254
	TOTAL OBS	2479	2256	2480	2399	2480	2400	2480	2480	2400	2480	2400	2480	29214