

AD-A 122 709

RAMSTEIN AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A. 21 JUL 82
USAFETAC/DS-82/043 SBI-AD-E880 202 F/G 4/2

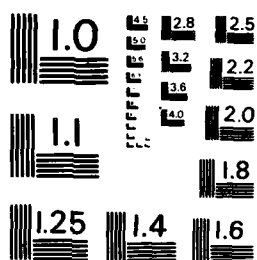
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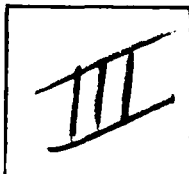
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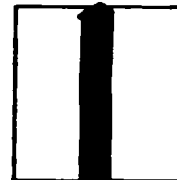
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USAFETAC
Air Weather Service (MAC)

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

RAMSTEIN AB DL

MSC #106140

N 49 26 E 007 36 FLD ELEV 782 FT EDAR

PARTS A-F

FOR FROM HOURLY OBS: JAN 73 - DEC 81

FOR FROM DAILY OBS: MAR 52 - DEC 81

TIME CONVERSION GMT TO LST: +1

JUL 21 1982

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS- 82/043	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER															
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18. SUPPLEMENTARY NOTES Supersedes USAFETAC/DA-79/101 AD A 079 838																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for RAMSTEIN AB, GERMANY (WEST) It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)																	

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

GERMANY (WEST)

RAMSTEIN AB, GERMANY (WEST)

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

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

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

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

DAILY OBSERVATIONS

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

DESCRIPTION OF SUMMARIES

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. The sections are prepared from hourly and daily observations recorded by stations operating the U.S. service and some foreign stations with 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 DATA NOT AVAILABLE

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 NOT 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: 000-0100, 0300-0400, 0600-0700, 0900-1000, 1200-1300, 1500-1600, 1800-1900, 2100-2200 hours local standard time.

MISSING HOUR GROUPS

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

JANUARY _____

APRIL _____

JULY _____

OCTOBER _____

FEBRUARY _____

MAY _____

AUGUST _____

NOVEMBER _____

MARCH _____

JUNE _____

SEPTEMBER _____

DECEMBER _____

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	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	May 82	Same	E 007 36	782 ft	Same	24

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 rnwy.	AN/GMQ 1	N/A	20 ft	
2	JUL 61	Located 500 ft N of GCA touchdown point of rnwy 27.	AN/GMQ 1	RO-2	13 ft	
3	APR 64	Located 500 ft N of GCA touchdown point on both rnwy 09 and 27.	Same	Same	Same	
4	JUN 68	Located 500 ft from center of rnwy & 1407 ft from touchdown point of rnwy 27 & 1300 ft from touchdown point of rnwy 09.	Same	Same	13 1/2 ft	
5	APR 69	1. Located 500 ft from centerline and 1500 ft from end of rnwy 27.	AN/GMQ 1	RO-2	13 ft	

USAFETAC FORM 0-19 (OL A)
APR 68

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	RO-362	Same	
		2. Located 500 ft from centerline and 1400 ft from end of rnwy 09.	Same		Same	
7	May 82	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	

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
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A

PART A

WEATHER CONDITIONS

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

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

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

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

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

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

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

Hail - Occurrences of hail and small hail are included.

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

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

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

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

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

Continued on Reverse

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

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

LOCAL CLIMATOLOGY BRANCH
METAC
WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 144 AMSTEIN AS DL 73-81 JAN
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	01-12		16.9	.2	7.1		23.0	34.6	8.6			43.2	635
	13-25		15.3	.7	7.2		24.7	35.1	7.0			42.0	637
	26-08		16.7	.8	8.8		28.0	34.3	7.2			41.5	637
	9-11		16.8	1.0	10.4		27.1	32.7	13.1			45.0	637
	12-14		19.1	1.2	8.7		27.5	20.3	20.2			42.5	637
	15-17		15.2	.7	8.0		23.5	17.8	23.4			41.2	637
	18-20		15.1	.8	6.0		21.8	24.8	18.2			42.9	637
	21-23		15.1	.7	6.9		21.3	31.2	13.1			44.3	637
TOTALS			17.0	.6	8.0		24.6	28.9	13.9			42.7	6693

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 100 HAMSTEIN AB DL 73-81 FEB
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02		14.2	.3	4.7		18.5	32.4	15.4			47.8	762
	03-05		13.4	.4	6.8		20.2	33.5	14.4			47.9	762
	06-08		13.6	.9	7.9		22.2	33.3	16.5			49.9	762
	09-11		15.2	.1	9.8		24.8	29.4	21.5			50.9	762
	12-14	.3	13.9	.4	9.8		23.5	14.3	23.6			37.9	762
	15-17		15.1	.3	7.1		21.5	8.8	26.0			34.6	762
	18-20		14.3	.5	5.0		19.2	13.5	25.9	.1		39.5	762
	21-23		14.8	.5	4.9		19.7	24.0	17.8	.1		42.7	762
TOTALS		.3	14.3	.4	7.0		21.2	23.7	20.1	.0		43.8	6096

5
FEDERAL CLIMATOLOGY BRANCH
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WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 14 HAMSTEIN AB DL 73-81 MAY
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
40A	0-32		19.0		1.8	.1	27.2	19.5	9.7			26.8	837
	05-09		16.8		1.4		20.1	24.3	7.9			31.9	837
	10-14		17.0		3.3		19.6	28.3	15.4			43.7	837
	15-19		17.1		3.9		20.4	18.9	24.1			47.5	837
	20-24	.1	14.5		2.4	.5	17.1	7.3	19.6			26.9	837
	25-29	.2	16.8		2.6		20.7	1.7	14.7			16.4	837
	30-31	.1	17.9		1.4	.1	19.2	2.4	17.4			19.4	837
	21-23		16.5		1.4		17.9	12.3	13.4			25.7	836
TOTALS		.1	17.5		2.3	.1	19.4	14.3	15.2			28.5	6695

AL CLIMATOLOGY BRANCH
 AFMPC
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 100 WAYSIDE AR PL 73-81 100
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
1-2	00-01		11.4		1.2		12.6	16.1	7.3			23.4	809
	03-05	.1	11.0		1.7		12.2	25.3	5.6			31.9	817
	06-08		13.1		3.1		15.4	33.5	14.3			47.4	817
	09-11	.1	12.6		2.7		15.1	13.1	19.3			32.3	817
	12-14	.4	13.6		1.7		14.7	5.1	7.9			18.7	809
	15-17	.6	14.1		1.3		14.4	3.2	4.6			7.1	817
	18-20	.1	11.2		.6		11.7	3.6	3.4			6.3	817
	21-23		9.9		1.7		10.9	8.5	6.4			14.7	817
TOTALS		.2	12.2		1.6		13.4	13.6	8.9			22.4	6476

☐
 METEOROLOGICAL BRANCH
 METAC
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 1 AMSTEIN AR 01 73-81 MAY
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	7-25	.2	11.9		.1		11.9	19.2	4.3			23.6	837
	26-31	.4	12.1				12.1	30.1	6.7			36.8	837
	1-10	.1	13.3				13.3	27.6	13.7			40.6	837
	11-20	.1	12.3				12.3	5.9	9.4			15.1	837
	21-31	.6	11.9				11.9	1.0	4.7			5.6	837
	1-10	1.0	9.7		.1		9.7	.4	3.6			3.9	837
	11-20	1.6	11.9				11.9	1.4	4.1			5.3	837
	21-31	1.0	14.4				14.4	6.5	4.3			11.8	836
TOTALS		.6	12.1		.1		12.1	11.5	6.3			17.8	6895

AL CLIMATOLOGY BRANCH

ATAC

WEATHER SERVICE/MAC

WEATHER CONDITIONS

1
STATION

AMSTEIN AP DL
STATION NAME

73-81
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	10-01	1.2	12.1				12.1	20.9	6.4			27.3	617
	02-05	1.4	9.8				9.8	35.1	7.7			42.7	617
	06-08	.6	9.5				9.5	70.2	13.7			44.1	617
	09-11	.1	4.6				4.6	7.0	13.9			17.9	619
	12-14	1.2	11.4				11.4	1.4	5.7			7.0	617
	15-17	3.9	12.2				12.2	1.2	3.2			4.4	617
	18-20	3.3	11.2			.1	11.4	2.5	4.5			6.4	617
	21-23	3.6	13.3				13.3	9.3	5.7			14.9	617
TOTALS		1.8	11.1			.	11.2	13.5	7.2			22.5	6470

1. ☐ METEOROLOGICAL CLIMATOLOGY BRANCH
 2. ☐ METEOROLOGICAL SERVICE/MAC

WEATHER CONDITIONS

1. 107 STATION AMSTEIN AB DL 73-81 YEARS JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	1-11	1.1	9.8				9.8	18.6	5.9			21.8	437
	12-22	1.1	9.3				9.3	34.8	5.6			40.4	837
	23-31	.7	12.5				12.5	29.0	12.9			41.9	837
	1-11	.5	13.8				13.8	7.4	10.8			19.2	837
	12-14	1.6	12.2				12.2	1.1	4.5			5.9	837
	15-17	1.9	11.1				11.1	1.0	2.7			3.7	837
	18-20	2.7	11.1				11.1	1.1	3.5			4.5	837
	21-23	2.2	11.0				11.0	5.6	5.9			11.5	837
TOTALS		1.5	11.3				11.3	12.1	5.4			18.5	6696

LOCAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 100 HAMSTEIN AB DL 73-81 AUG
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
1-31	0-12	.8	8.5				8.5	31.5	5.9			37.4	437
	13-24	1.0	7.8				7.8	48.9	4.2			53.0	637
	25-36	.4	7.6				7.6	47.8	9.3			57.1	637
	37-48		8.6				8.6	14.7	19.5			34.2	437
	49-60	.5	9.7				9.7	3.7	10.3			14.0	437
	61-72	1.2	8.0				8.0	1.7	7.3			9.0	437
	73-84	1.0	8.6				8.6	2.9	7.6			10.6	437
	85-96	1.3	6.3				6.3	13.4	8.0			21.4	437
TOTALS		.8	8.1				8.1	20.6	9.0			29.6	6696

1. MAJ CLIMATOLOGY BRANCH
2. AFSTAC
3. WEATHER SERVICE/AC

WEATHER CONDITIONS

1. IN HAMSTEIN AB DL 75-51 SEP
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	10-11	.6	9.4				9.4	41.7	3.3			45.1	517
	12-13	.6	1.5				11.5	50.5	2.5			53.1	517
	14-15	.2	8.4				8.4	57.0	5.9			53.1	517
	16-17	.4	3.1				8.1	26.5	16.2			42.7	517
	18-19	.2	3.9				3.9	5.7	12.1			17.6	519
	20-21	.1	6.2				6.2	1.5	6.7			17.1	519
	22-23	.7	6.5				6.5	7.5	12.3			15.9	517
	24-25	.9	4.0				9.0	27.7	7.0			34.7	517
TOTALS		.5	4.9				8.9	27.3	8.5			35.4	6474

CLIMATE CLIMATOLOGY BRANCH
 AFMSTAC
 AF WEATHER SERVICE/MAC

WEATHER CONDITIONS

1111 AFMSTEIN AB DL 73-31 OCT
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-07		14.6				14.6	49.3	2.4			51.7	637
	08-15	.2	13.5		.2		13.6	51.7	1.7			57.4	637
	16-23		18.2				16.2	54.2	3.3			57.6	637
	24-31		18.6		.1		18.6	40.4	10.9			51.3	637
	01-07		10.1				16.1	17.4	12.7			30.1	637
	08-14	.2	14.1				14.1	9.9	14.8			24.7	637
	15-21	.1	14.5				14.5	18.4	11.1			29.5	637
	22-28	.1	11.1				11.1	36.7	7.9			44.6	637
TOTALS		.1	13.1		.3		15.1	34.8	8.1			42.9	6696

U.S. AIR FORCE
CLIMATE BRANCH
AFMPC/CLIMATE
AFMPC/CLIMATE SERVICE/MAC

WEATHER CONDITIONS

11 1973 AMSTEIN AR 01 73-81 NOV
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-01		18.8		2.2		20.6	32.8	4.6			37.4	617
	02-05		20.2		3.2		22.6	35.3	4.7			40.0	617
	06-08		21.1		4.2		24.1	36.0	5.1			43.1	617
	09-11		11.0	.2	5.7		25.6	34.6	8.4			47.0	617
	12-14		17.3		4.7		20.6	21.9	11.4			33.2	610
	15-17		16.7		2.7		18.9	15.3	11.4			26.7	617
	18-20		17.8	.1	2.7		20.4	23.7	8.1			31.9	610
	21-23		16.4		2.3		20.1	29.1	6.7			35.8	617
TOTALS			19.9	.3	3.5		21.5	28.8	7.6			36.4	6487

CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

STATION WAKSTEIN AB DL 73-81 DEC
STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
DEC	0-22		21.0	.8	5.5		26.4	29.4	6.9			36.3	437
	03-25		23.2	1.2	5.6		28.3	30.3	6.3			36.5	436
	26-28		22.7	1.0	6.7		28.4	29.0	7.5			36.5	437
	29-31		20.2	1.1	5.4		28.7	33.3	8.7			41.1	437
	12-14	.1	21.4	.7	9.0		28.0	26.0	10.6			36.7	437
	15-17		22.7	.5	6.8		29.2	23.9	11.4			34.9	437
	18-20		20.3	.5	5.7		25.4	28.0	9.8			37.5	437
	21-23	.1	21.1	1.0	4.5	.1	26.0	30.3	8.2			36.6	437
TOTALS		.7	21.5	.9	6.5	.1	27.6	28.8	8.5			37.5	6645

CLIMATE CLIMATOLOGY BRANCH
 AFETAC
 WEATHER SERVICE/MAC

WEATHER CONDITIONS

STATION NAME: HANSTEIN AB 1L YEARS: 73-81 ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	ALL		17.7	.8	3.0		24.6	28.9	13.9			42.7	6677
FEB		.0	14.3	.4	7.0		21.2	23.7	20.1	.1		47.8	6796
MAR		.1	17.8		2.3	.1	19.4	14.3	15.2			24.5	6695
APR		.2	12.2		1.6		13.4	13.6	8.9			22.4	6478
MAY		.6	12.0		.0		12.0	11.5	6.3			17.8	6695
JUN		1.8	11.1			.1	11.2	13.5	7.2			20.0	6470
JUL		1.5	11.3				11.3	12.1	6.4			17.8	6696
AUG		.3	8.1				8.1	20.6	9.0			29.8	6596
SEP		.5	6.9				8.9	27.3	8.5			35.8	6478
OCT		.1	15.1		.5		15.1	34.8	8.1			40.9	6696
NOV			18.9	.4	3.5		21.5	28.8	7.6			36.4	6487
DEC		.0	21.5	.9	6.5	.0	27.6	28.8	8.6			37.8	6695
TOTALS		.5	14.0	.2	2.4	.0	16.2	21.5	10.0	.0		31.5	78877

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.

AL CLIMATOLOGY BRANCH
AFAC
WEATHER SERVICE /MAC

XX **WEATHER CONDITIONS** XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ATMOSPHERIC PHENOMENA

STATION LAKE STEIN 43 DL STATION NAME 52-01 YEARS ALL 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	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	DAILY	.8	50.1	8.1	26.9	.6	69.9	67.9	72.7	.2		1.4	300
FEB		1.0	48.3	7.4	33.1	1.3	65.3	65.0	77.2	.5		22.0	319
MAR		2.2	51.3	.4	18.3	1.9	60.6	53.6	77.5			14.0	307
APR		4.7	52.3		9.9	2.6	61.4	61.2	69.4		.1		394
MAY		12.3	51.2		.9	1.4	57.3	64.1	64.9		.2	27.6	32
JUN		17.8	57.6		.1	.0	57.6	65.1	60.2			41.0	40
JUL		16.5	53.7			.4	53.7	62.7	65.6		.2	70.7	
AUG		17.8	54.6			.0	54.6	71.2	69.4		.1	43.1	300
SEP		7.9	51.7			.1	51.3	73.7	76.6			27.3	400
OCT		1.0	52.3		.6	.3	52.3	61.9	75.1			11.9	30
NOV		.8	60.0	1.1	10.7	.3	65.7	74.3	69.1	.1		28.6	357
DEC		.3	55.5	6.3	32.6	.5	70.0	71.7	69.0	.1		4.0	30
TOTALS		6.7	54.1	1.3	12.4	1.2	59.8	66.6	71.1	.1	.1	15.6	1889

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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:

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

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

17 14
STATION

RAMSTEIN AB DL
STATION NAME

52-61

YEARS

AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	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	17.3	21.5	6.9	14.2	9.5	11.7	4.8	2.3	.7					47.3	899	2.02	4.73	.31	
FEB	34.1	19.1	6.1	12.3	9.2	11.7	6.5	1.8	.2					47.9	819	1.93	4.80	.14	
MAR	34.6	19.5	4.2	11.4	8.4	10.8	5.5	1.2	.4					41.9	928	1.74	5.56	.27	
APR	34.9	19.4	4.2	13.3	7.7	9.9	4.7	1.7	.2					41.7	900	1.68	3.78	.33	
MAY	41.6	18.4	4.0	10.8	6.7	9.7	5.6	2.8	.5					40.0	930	2.18	6.77	.33	
JUN	41.2	18.1	4.0	8.9	7.0	9.8	6.2	3.2	1.6					40.7	900	2.67	5.87	.37	
JUL	45.0	14.6	2.9	10.3	4.3	11.5	6.1	3.6	.6					39.3	886	2.47	6.73	.64	
AUG	44.6	14.7	3.7	9.4	5.7	10.4	7.8	2.9	.9					40.7	902	2.65	7.83	.07	
SEP	49.4	13.8	4.2	9.3	6.3	10.0	5.3	2.1	.4					37.8	900	1.93	5.26	TRACE	
OCT	46.0	13.9	5.3	11.4	6.7	9.9	4.3	2.4	.2					40.1	933	1.83	4.70	.27	
NOV	34.8	18.1	6.2	12.9	7.8	10.5	7.7	1.8	.2					47.1	899	2.10	5.28	.41	
DEC	24.8	22.5	6.5	12.5	7.3	12.3	7.2	2.2	.9					48.7	930	2.52	6.24	.23	
ANNUAL	39.3	17.7	4.8	11.4	7.2	10.7	6.7	2.3	.5					42.9	10823	25.65			

U.S. AIR FORCE
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WEATHER SERVICE/40

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

1 14 RAMSTEIN AB LL 52-61 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
52			1.76	.74	.11	.72	.44	.78	.77	.74	1.43	1.5	
53	.31	.74	.11	.19	.77	1.60	.54	.23	.62	.14	.25	.12	1.22
54	.42	1.44	.25	.54	.67	1.41	.90	.92	.46	.45	.58	1.02	1.44
55	.71	.63	.31	.17	.64	.76	.55	.56	.42	.78	.13	.42	.75
56	.49	.21	.20	.60	.84	.85	.83	.92	.33	.63	.45	.27	.97
57	.13	.58	.48	.16	.24	1.50	.67	1.25	1.25	.61	.32	.74	1.56
58	1.13	.56	.52	.39	.71	.64	.75	1.21	.27	.73	.30	.45	1.31
59	.31	.63	.49	.29	.23	.97	.81	.89	TRACE	.45	.33	.42	.77
60	.44	.32	.17	.37	.64	.53	.54	1.21	.57	.37	.42	.50	1.21
61	.63	.27	.19	.67	.43	1.13	1.61	.45	.21	.69	.64	.55	1.61
62	1.35	.65	.77	1.70	.46	.22*	1.30	.21	1.20	.15	.42	.70	1.77
63	.33	.25	.62	.48	.20	1.08	.30	.81	.39	.57	.74	.19	1.26
64	.78	.30	.45	.24	.46	.53	.25	.44	.54	.37	.84	.15	.94
65	.87	.20	.59	.27	.53	.76*	.63	.45	.50	.29	.71	.22	.93
66	.48	.32*	.39	.47	1.13	.75	.70	.58	.36	.64	.35	1.26	1.26
67	.22	.76	.45	.71	.77	.63	.92	.72	2.13	.49*	.42	1.24	1.17
68	.63	.40	.35	.72	.49	.69	.75	1.67	1.11	.48	.76	.53	1.67
69	.92	.68	1.07	.51	.55	.46*	.39*	.27	.29	.13	.33	.24	1.7
70	.64	.83	.51	.65	1.63	.71	1.16	.22	.24	.27	.39	.30	1.83
71	.34	.19	.23	.34	.79	.48	.33	.42	.39	.52	.47	.22	.78
72	.39	.47	.26	.37	.55	1.14	.87	.67	.35	.19	1.19	.37	1.19
73	.28	.34	.87	.64	.41	.29	.71	.41	.39	.58	.38	.43	.71
74	.19	.51	.35	.20	.49	.40	.71	.31	.36	.68	.50	.52	.71
75	.38	.49	.57	.38	.43	1.33	.88	.82	.63	.20	.31	.31	1.24
76	.25	.42	.23	.24	.14	.33	.70	.31	.71	1.08	.64	.69	1.70
77	.63	1.14	.37	.40	.31	1.01	1.25	.45	.61	.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	.68	.53	.68	1.21	.77	.47	.58	1.26	1.26
80	.85	.72	.44	.53	.64	1.40	1.40	1.63	.78	.67	.63	.23	1.67
81	.74	.20	.57	1.22	.34	1.26	.67	.58	.50	1.56	.56	.89	1.56
MEAN	.520	.579	.425	.491	.589	.848	.752	.727	.579	.526	.549	.614	1.239
S. D.	.304	.299	.223	.323	.345	.472	.318	.406	.412	.311	.283	.477	.334
TOTAL OBS.	899	819	928	970	933	970	886	902	503	931	899	931	10823

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)
JUL 64

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

EXTREME VALUES MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

STATION NAME HAMSTEIN AB DL STATION 02-41 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG.	SEP.	OCT.	NOV	DEC	ALL MONTHS
42			5.56	2.50	.33	1.33	1.54	2.39	3.54	7.65	5.28	4.46	
43	.63	2.76	.70	1.29	1.22	5.38	2.42	.91	1.64	.49	.46	.73	17.19
44	1.91	2.27	1.73	1.96	1.92	2.65	2.72	4.03	3.22	1.85	1.68	2.92	28.46
45	2.92	2.89	1.35	.33	2.00	3.00	2.68	1.51	1.92	1.06	.65	7.32	25.33
46	2.11	.45	.54	2.77	1.82	1.58	7.96	2.92	2.03	2.05	1.79	1.00	22.44
47	.71	2.89	2.17	.36	.83	4.28	2.36	3.35	5.25	1.17	.70	1.55	25.40
48	4.03	4.20	1.95	1.77	4.63	2.79	2.50	4.88	1.44	1.36	1.26	3.65	33.31
49	1.69	.54	1.63	1.63	.98	2.65	1.84	2.32	TRACE	1.11	1.36	2.80	16.17
50	1.99	2.14	.75	1.72	4.17	1.97	2.51	4.45	1.13	2.64	2.48	2.70	27.95
51	2.97	1.27	.59	1.84	2.21	3.61	3.44	1.55	.71	2.19	1.71	2.58	24.67
52	3.44	1.92	2.89	3.73	1.62	.37*	1.52	.72	3.26	.40	1.34	2.19	*22.76
53	1.15	.81	2.71	1.63	.93	2.65	.70	4.36	1.34	1.27	3.79	.23	*1.75
54	.31	1.10	2.76	.91	1.49	1.47	.68	2.24	1.17	1.91	1.56	1.13	16.13
55	4.01	.63	1.91	1.53	1.84	2.81*	2.80	1.61	2.83	.24	4.76	5.09	*30.13
56	1.42	1.52*	1.58	2.49	1.97	3.34	3.69	3.43	.67	2.88	1.94	4.19	*29.17
57	.83	2.09	2.36	1.52	3.54	2.76	2.03	2.59	5.26	2.83*	2.34	2.64	*31.18
58	2.76	2.38	1.65	2.38	2.19	1.80	2.94	7.83	3.94	1.41	1.49	1.23	27.75
59	3.35	2.71	2.77	2.97	3.09	2.78*	.88*	.07	.33	.20	2.92	.90	*22.02
60	1.95	4.48	1.72	2.79	3.46	2.33	3.44	.95	1.07	1.20	1.25	1.60	20.05
61	1.57	.85	.80	.78	2.99	2.51	.69	1.61	1.35	.83	2.01	.51	16.18
62	1.21	.98	1.04	2.02	2.85	2.78	2.17	3.46	1.22	.43	4.77	.71	23.18
63	.84	1.95	.23	1.78	1.91	1.25	2.97	1.20	1.02	2.51	1.21	1.46	12.03
64	1.23	1.22	1.66	.53	1.72	1.83	2.15	1.76	1.75	4.60	2.97	3.07	28.14
65	1.73	.75	2.46	1.24	1.37	4.73	1.82	2.50	2.78	.97	1.54	.43	22.26
66	2.37	1.44	.91	.74	.44	.41	1.51	.86	2.79	2.59	2.35	2.58	13.08
67	3.63	4.31	1.77	1.73	1.17	3.10	1.88	1.96	.74	2.09	3.98	3.17	29.16
68	1.91	1.76	3.15	.96	6.77	3.50	2.32	1.56	1.40	.53	.41	6.24	30.63
69	1.68	2.60	3.91	2.41	2.26	2.50	1.76	3.97	1.46	1.82	2.93	5.43	32.11
70	2.24	2.57	2.70	1.72	1.53	5.87	6.03	3.59	1.13	2.86	1.93	1.74	33.46
71	2.45	.71	3.14	2.38	1.20	3.42	2.43	1.64	2.01	4.70	1.40	4.76	29.74
MEAN	2.625	1.934	1.736	1.644	2.183	2.668	2.401	2.654	1.930	1.829	2.099	2.018	25.000
S.D.	1.031	1.177	.952	.873	1.365	1.273	1.111	1.591	1.319	1.181	1.295	1.600	5.677
TOTAL OBS.	899	819	928	970	975	900	886	902	900	930	899	971	10623

NOTE * (BASED ON LESS THAN FULL MONTHS)

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

1 147 PAMSTEIN AB DL 52-81
STATION STATION NAME YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE 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	17.7	2.2	3.1	5.9	1.6	.9	.1	.4	.1					17.1	898	5.1	15.7	TRACE
FEB	6.1	17.5	7.7	5.9	1.7	.9	.2	.1						16.5	819	4.0	13.2	TRACE
MAR	1.2	11.8	3.0	2.4	.6	.4	.1	.4	.1					7.1	928	2.7	13.8	.0
APR	8.9	8.1	1.6	1.0			.1	.1						2.9	900	.6	6.0	.7
MAY	8.8	1.2													930	TRACE	TRACE	.7
JUN	00.0														900	.0	.0	.7
JUL	00.0														895	.0	.0	.3
AUG	0.1														903	.0	.0	.0
SEP	0.7														900	.7	.0	.3
OCT	9.5	.5													930	TRACE	TRACE	.7
NOV	3.7	10.3	2.7	2.6	.9		.2	.1						6.4	900	1.7	8.8	.0
DEC	6.7	20.5	6.1	3.9	1.7	.5	.3	.1	.1					12.8	930	3.7	21.8	.7
ANNUAL	57.3	7.5	2.4	1.8	.5	.2	.1	.1	.7					5.2	10833	17.8		

CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

140 AMSTEIN 43 DL
STATION STATION NAME

52-21

YEARS

24 HOUR AMOUNTS IN INCHES

YEAR	MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
52				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.1	
53		1.1	2.8	.7	.0	TRACE	.0	.0	.1	.0	.0	.0	.0	2.8
54		1.8	1.2	.3	.5	.0	.0	.0	.1	.0	.0	TRACE	.1	1.3
55		1.1	1.9	2.2	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	.0	3.0
56		1.3	2.2	.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	1.1	2.2
57		.5	TRACE	.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	.5
58		4.9	5.1	5.3	.6	.0	.0	.0	.0	.0	.0	TRACE	5.0	5.3
59		3.1	TRACE	.0	.1	.0	.0	.0	.0	.0	.0	TRACE	TRACE	3.1
60		2.1	.3	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.0	2.0
61		6.3	.3	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	.5	6.3
62		.1	2.4	5.7	TRACE	.0	.0*	.0	.0	.0	TRACE	5.4	.6	5.7
63		2.7	3.4	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.4	3.4
64		1.2	.9	4.4	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.5	4.4
65		1.4	1.2	5.1	.0	.0	.0	.0	.0	.0	.0	4.0	.5	5.1
66		.4	TRACE*	1.0	TRACE	.0	.0	.0	.0	.0	TRACE	1.4	1.0	1.4
67	*	.0	.5	TRACE	.2	.0	.0	.0	.0	.0	.0	1.1	3.0	3.0
68		5.8	4.0	.3	.8	TRACE	.0	.0	.0	.0	.0	.9	2.2	5.8
69		1.3	2.0	.8	1.3	.0	.0*	.0*	.0	.0	.0	.3	2.4	2.4
70		7.2	2.0	4.7	.5	.0	.0	.0	.0	.0	.0	TRACE	6.7	7.2
71		.5	.2	2.6	.0	.0	.0	.0	.0	.0	.0	2.0	TRACE	2.6
72		1.3	.5	.3	.0	.0	.0	.0	.0	.0	TRACE	1.6	.0	1.6
73		.3	3.8	.7	.4	.0	.0	.0	.0	.0	TRACE	.0	.7	3.8
74		TRACE	.6	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.1	.6
75		TRACE	TRACE	7.6	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	TRACE	7.6
76		3.5	2.5	TRACE	.2	.0	.0	.0	.0	.0	.0	2.1	1.8	3.5
77		5.4	TRACE	1.2	TRACE	.0	.0	.0	.0	.0	.0	.5	1.0	5.4
78		1.1	2.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.8	2.8
79		2.9	.8	.0	TRACE	TRACE	.0	.0	.0	.0	.0	1.0	1.0	2.9
80		1.7	TRACE	.2	.4	.0	.0	.0	.0	.0	.0	4.2	2.4	4.2
81		1.5	1.8	TRACE	3.5	TRACE	.0	.0	.0	.0	.0	TRACE	5.0	5.0
MEAN		2.22	1.50	1.51	.48	TRACE	.80	.80	.80	.80	TRACE	.98	1.61	3.73
S.D.		2.041	1.405	2.249	1.243	.000	.000	.000	.000	.000	.000	1.413	1.636	1.915
TOTAL OBS.		898	819	928	900	930	900	895	903	900	930	902	930	10933

NOTE * (BASED ON LESS THAN FULL MONTHS)

U.S. AIR FORCE
 AFETAC
 WEATHER SERVICE/MAC

EXTREME VALUES MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

1 140 RAMSTEIN AB DL 52-21
 STATION STATION NAME YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
52			* 3.5	6.7	.0	.0	.0	.0	.0	.0	1.3	7.5	
53	1.3	8.6	.7	.0	TRACE	.0	.0	.0	.0	.0	.0	.4	11.0
54	7.1	2.6	.3	.8	.0	.1	.0	.0	.0	.0	TRACE	.1	10.9
55	5.3	8.4	6.3	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	3.2	13.2
56	2.4	3.7	.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.0	9.7
57	1.1	TRACE	.1	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	1.1
58	7.3	11.8	13.8	1.7	.0	.0	.0	.0	.0	.0	TRACE	7.5	59.1
59	9.7	TRACE	.0	.1	.0	.0	.0	.0	.0	.0	TRACE	TRACE	19.8
60	3.2	.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	5.4	9.7
61	8.7	1.3	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	11.9
62	.1	4.5	9.5	TRACE	.0	.0*	.0	.0	.0	TRACE	3.5	1.5	* 24.1
63	6.4	8.7	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.9	18.5
64	1.4	2.0	6.7	TRACE	.0	.0	.0	.0	.0	.0	TRACE	7.9	18.0
65	5.5	4.3	8.4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	15.6
66	.9	TRACE*	1.6	TRACE	.0	.0	.0	.0	.0	TRACE	3.1	3.1	* 8.7
67	* 1.2	1.0	TRACE	.3	.0	.0	.0	.0	.0	.0	.0	4.2	* 10.0
68	15.7	7.5	.4	1.6	TRACE	.0	.0	.0	.0	.0	.0	4.9	10.4
69	2.6	13.2	.9	1.6	.0	.0*	.0*	.0	.0	.0	.0	7.6	* 28.7
70	10.7	7.7	18.2	1.1	.0	.0	.0	.0	.0	.0	TRACE	.0	39.7
71	.8	.4	5.2	.1	.1	.0	.0	.0	.0	.0	.0	TRACE	12.0
72	3.5	.7	.3	.1	.0	.1	.0	.0	.0	.0	TRACE	.0	5.9
73	.3	8.8	1.4	.6	.0	.0	.0	.0	.0	.0	TRACE	.0	15.0
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	.0	TRACE	TRACE	8.6
76	7.9	4.3	TRACE	.2	.1	.0	.0	.0	.0	.0	.0	3.9	21.2
77	14.2	TRACE	1.2	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	16.9
78	2.3	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	.0	1.4	18.1
80	2.3	TRACE	.2	.9	.0	.0	.0	.0	.0	.0	.0	5.6	18.1
81	7.2	3.6	TRACE	4.5	TRACE	.0	.0	.0	.0	.0	TRACE	21.9	37.1
MEAN	5.17	3.97	2.66	.64	TRACE	.00	.00	.00	.00	TRACE	1.75	3.69	17.39
S.D.	4.599	4.027	4.073	1.363	.000	.000	.000	.000	.000	.000	2.553	4.471	1.647
TOTAL OBS.	898	819	928	900	930	900	895	903	900	910	900	930	1,333

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)
 JUL 68

PERCENTAGE FREQUENCY OF
SNO. DEPTH
(FROM DAILY OBSERVATIONS)

YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PREC P	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	67.7	13.6	7.4	4.8	4.3	6.8	.2							23.5	868			
FEB	77.9	10.4	6.6	5.1	4.2	2.7	.1							18.7	818			
MAR	82.9	4.8	2.2	1.7	.7	.7	.1							5.4	897			
APR	9.4	.3	.1	.1		.1								.3	900			
MAY	10.7														930			
JUN	.3														900			
JUL	3.3														910			
AUG	3.7														903			
SEP	10.7														900			
OCT	100.7														930			
NOV	93.7	4.4	.7	.8	.1	.3								1.9	900			
DEC	74.3	17.9	6.2	1.6	.4	1.8	.8							10.9	929			
ANNUAL	91.2	3.7	1.9	1.2	.8	1.0	.1							5.1	10785			

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AF-ETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

1 148 STATION 52-81 YEARS

DAILY SNOW DEPTH IN INCHES

YEAR	MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
52				*	1	0	0	0	0	0	0	2	1	
53			2	TRACE	0	0	0	0	0	0	0	0	TRACE	
54			2	TRACE	0	0	0	0	0	0	0	0	TRACE	
55			5	0	0	0	0	0	0	0	0	TRACE	1	
56			4	TRACE	0	0	0	0	0	0	0	0	1	
57			1	0	0	0	0	0	0	0	0	0	TRACE	
58			8	5	TRACE	0	0	0	0	0	0	0	0	
59			1	0	0	0	0	0	0	0	0	TRACE	TRACE	
60			1	0	0	0	0	0	0	0	0	0	1	
61			TRACE	0	0	0	0	0	0	0	0	TRACE	1	
62			3	5	0	0	0	0	0	0	0	4	TRACE	
63			5	2	0	0	0	0	0	0	0	0	4	
64			0	0	0	0	0	0	0	0	0	0	4	
65			0	0	0	0	0	0	0	0	0	0	1	
66			0*	0	0	0	0	0	0	0	0	0	2	
67			0	0	0	0	0	0	0	0	0	0*	2	
68			6*	6	1	0	0	0	0	0	0	2	6	*
69			3	4	TRACE	TRACE	0*	0*	0	0	0	TRACE	2	
70			2	5	0	0	0	0	0	0	0	0	2	
71			4	TRACE	1	0	0	0	0	0	0	2	TRACE	
72			1	TRACE	0	0	0	0	0	0	0	1	1	
73		TRACE	3	0	0	0	0	0	0	0	0	2	1	
74			0	TRACE	0	0	0	0	0	0	0	0	TRACE	TRACE
75			0	7	0	0	0	0	0	0	0	0	1	
76			3	TRACE	0	0	0	0	0	0	0	TRACE	1	
77			1	0	0	0	0	0	0	0	0	TRACE	0	
78			6	0	0	0	0	0	0	0	0	0	2	
79			1	0	0	0	0	0	0	0	0	TRACE	1	
80			0	0	0	0	0	0	0	0	0	4	6	
81			2	0	0	0	0	0	0	0	0	TRACE	9	
MEAN		2.7	1.9	1.0	.3	.1	.0	.0	.0	.0	.0	.6	1.6	4.7
S.D.		2.373	2.206	2.047	1.143	.000	.300	.000	.000	.000	.700	1.165	2.379	2.219
TOTAL OBS.		868	818	897	970	930	920	910	903	900	930	900	929	12745

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)
 JUL 64

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
ATMOSPHERIC WEATHER SERVICE/MAC

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

SURFACE WINDS

10-1-80
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JAN
MONTH

ALL WEATHER
CLASS

2000-0200
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	.2	.2	.1									.6	4.6
NNE	.5											.5	2.3
NE	2.4	1.2	.6	.1								4.3	3.9
ENE	1.7	2.5	.8									5.0	4.6
E	1.5	1.2	.7									3.2	4.4
ESE	.2	.1										.4	3.3
SE	.1											.1	3.0
SSE		.1			.1							.2	12.7
S	.5	.1	.1									.7	3.7
SSW	.4	.4	.7	.1								1.6	6.4
SW	1.3	2.0	1.8	1.1		.1						6.3	7.3
WSW	2.2	5.5	6.3	6.1	1.7	.2	.1					22.2	9.5
W	2.7	4.8	3.8	3.1	.2							14.0	7.7
WNW	.8	.5	.1									1.4	3.3
NW	.1											.1	2.0
NNW													
VARBL			2.4	1.4	.1	.2						4.2	11.5
CALM												35.1	
	13.8	18.7	17.6	12.0	2.2	.6	.1					100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JAN
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 - 53	≥ 56	%	MEAN WIND SPEED
N	.2	.4										.6	3.4
NNE	.4	.1										.5	2.0
NE	1.3	.8	.5									2.6	3.9
ENE	2.4	2.9	1.1	.1								6.5	4.8
E	1.3	1.8	.5									3.6	4.5
ESE	.2	.2										.5	3.5
SE		.1										.1	4.0
SSE			.1									.1	8.0
S			.4									.4	8.7
SSW	.2	.4	.6									1.2	6.1
SW	1.2	2.3	2.9	1.4	.4							8.1	7.9
WSW	2.0	3.3	6.8	4.2	1.1	.7	.1					18.8	9.5
W	3.3	3.6	4.7	1.6	.4							13.5	7.1
WNW	.5	.1	.4	.2								1.2	6.3
NW	.4	.1										.5	3.3
NNW			.1									.1	7.0
VARBL			3.0	2.4	.2	.2	.1					6.0	11.4
CALM												35.8	
	13.5	16.6	20.9	9.9	2.0	1.0	.2					100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

SURFACE WINDS

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

1-147
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JAN
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	.4											.4	2.0
NNE	.4	.1										.5	2.5
NE	1.2	1.1	.6									2.9	4.3
ENE	2.3	3.0	1.7	.1								7.1	4.8
E	2.6	1.7	.4	.2								4.9	4.0
ESE	.4											.4	1.7
SE													
SSE		.1	.4									.5	8.0
S	.4	.1	.1									.6	3.2
SSW	.4	.6	.5	.1								1.6	6.2
SW	1.3	1.4	3.3	2.0	.4							8.5	8.7
WSW	1.3	4.1	7.5	4.8	.7	.4						18.8	9.4
W	1.6	3.2	5.3	1.2	.1	.4						11.7	8.0
WNW	.7	.7	.4									1.8	4.5
NW	.1											.1	3.0
NNW	.1	.1	.1									.4	5.7
VARBL		.1	3.1	2.0	.1							5.4	10.3
CALM												34.8	
	13.0	16.4	23.3	12.5	1.3	.7						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 - 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS MONTH JAN
STATION CLASS ALL WEATHER 0900-1100
CONDITION HOURS (L.S.T.)

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	1.7
NNE	.4	.1										.5	2.5
NE	1.2	1.2	.5	.1								3.0	4.4
ENE	2.2	3.6	2.3	.2								8.2	5.5
E	2.3	.8	.8	.6								4.5	5.1
ESE	.4	.4										.7	3.3
SE	.4											.4	2.0
SSE	.2	.1										.4	2.7
S		.8	.4	.2								1.4	7.8
SSW	.5	.7	1.0	.4								2.5	7.0
SW	1.3	2.4	2.0	1.9	.1							7.8	7.8
WSW	1.3	3.0	9.3	6.5	.8	.1						21.0	9.4
W	2.4	4.1	5.0	3.2	.4							15.1	7.8
WNW	1.0	.5	.2									1.7	3.8
NW													
NNW	.1											.1	2.0
VARBL		.2	2.4	2.3	.1							5.0	10.5
CALM												27.4	
	13.9	17.9	23.9	15.4	1.4	.1						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

SURFACE WINDS

10-140 STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH JAN
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	.5	1.7	.2									1.8	4.1
NNE	1.1	.8	.1									2.0	3.5
NE	1.7	1.6	.2									3.5	3.9
ENE	2.4	3.0	2.6	.6								8.6	5.8
E	1.1	1.7	1.2	.5								4.4	6.2
ESE	.2			.1								.4	5.3
SE		.1										.1	4.0
SSE	.2	.1	.1									.5	4.3
S	.1	.7	.6	.2								1.7	7.4
SSW	2.0	1.0	1.0	.2								4.2	4.6
SW	.4	2.6	3.2	2.6	.1	.2						9.2	9.3
WSW	.7	3.6	6.7	7.5	1.2							19.7	10.1
W	2.4	2.6	5.4	4.9	1.1	.1						16.5	9.1
WNW	1.0	1.0	.4	.2								2.5	5.4
NW	.4	.2			.1							.7	6.2
NNW	.2	.4										.6	3.4
VARBL		.1	5.9	1.6	.6							6.1	10.0
CALM												15.5	
	14.5	20.4	27.6	18.5	3.1	.4						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATTN: WEATHER SERVICE/MAC

SURFACE WINDS

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

1 7147 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS JAN MONTH
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.2										2.0	3.4
NNE	1.4	.7	.4									2.5	3.7
NE	2.6	1.9	.1									4.7	3.4
ENE	1.6	3.7	3.1	.6								9.0	6.0
E	.8	1.4	.8	1.1								4.2	7.2
ESE		.4										.4	4.7
SE		.1										.1	6.0
SSE	.2		.1									.4	5.0
S	1.0	.6	.4	.1								2.0	5.0
SSW	1.3	1.9	.4	.6	.1							4.3	5.9
SW	.6	3.5	2.7	2.4	.2							9.4	8.2
WSW	1.3	4.2	9.0	6.2	.5	.2						21.4	9.2
W	2.0	3.8	4.2	3.1	.4	.4						13.9	8.4
WNW	1.1	.8	.6	.1								2.6	4.7
NW	.7	.4				.1						1.2	5.0
NNW	.4	.6	.1									1.1	4.0
VARBL			3.7	1.3	.2	.1						5.4	10.5
CALM												15.5	
	15.9	25.2	25.6	15.5	1.4	.8						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0140 STATION NAME RAMSTEIN AB DL 73-81 YEARS MONTH JAN
1800-2000 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	%	MEAN WIND SPEED
N	.4	.4										.7	3.3
NNE	.4	.7	.1									1.2	4.0
NE	1.3	1.0										2.3	3.3
ENE	1.7	3.5	2.0	.5								7.7	5.6
E	2.6	1.9	1.2									5.7	4.2
ESE	.2		.1									.4	4.2
SE	.1											.1	1.0
SSE	.1	.1		.1								.4	7.7
S	.5	.4	.1	.1								1.1	5.2
SSW	.2	1.0	.5	.5								2.2	7.4
SW	1.0	1.9	2.9	2.3	.4	.1						8.5	8.8
WSW	1.9	4.1	5.5	5.7	.8	.2						18.3	9.2
W	2.6	4.4	4.4	2.4	.5							14.4	7.2
WNW	.2	.1	.1	.1								.6	6.8
NW	.4	.1										.5	2.5
NNW	.1											.1	3.2
VARBL		.2	3.2	1.4	.4							5.3	10.1
CALM												30.7	
	13.8	19.7	20.2	13.2	2.0	.4						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATMOSPHERIC WEATHER SERVICE/MAC

SURFACE WINDS

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

14143
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JAN
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.2										.7	2.8
NNE	.2	.1										.4	2.3
NE	.8	.8	.5									2.2	4.5
ENE	1.7	4.1	1.6	.2								7.5	5.3
E	1.1	1.8	.4									3.2	4.1
ESE	.2											.2	2.5
SE													
SSE	.2	.2	.1									.6	4.0
S	.5	.1		.1								.7	4.0
SSW		.8	.6	.1	.1	.2						1.9	9.5
SW	.8	2.5	2.4	1.0		.2						6.9	7.7
WSW	1.0	3.9	4.9	6.2	1.4	.5						17.9	10.3
W	1.9	4.7	5.1	3.9	.5							16.1	8.2
WNW	.7	.1	.1	.2								1.2	5.2
NW	.2											.2	2.0
NNW													
VARBL		.1	2.7	1.0	.4							4.2	10.2
CALM												36.0	
	9.9	19.6	18.4	12.8	2.4	1.0						120.0	5.1

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 140 STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH JAN

CLASS ALL WEATHER

CONDITION

HOURS (L.S.T.) ALL

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	.0									.9	3.5
NNE	.6	.3	.1									1.0	3.3
NE	1.6	1.2	.4	.0								3.2	3.9
ENE	2.0	3.3	1.9	.3								7.4	5.4
E	1.6	1.5	.7	.3								4.2	5.0
ESE	.2	.1	.0	.0								.4	3.6
SE	.1	.7										.1	3.0
SSE	.1	.1	.1	.0	.0							.4	5.9
S	.4	.4	.3	.1								1.1	5.8
SSW	.6	.8	.6	.3	.0	.0						2.4	6.4
SW	1.0	2.3	2.7	1.8	.2	.1						8.1	8.3
WSW	1.5	4.3	7.0	5.9	1.0	.3	.0					19.8	9.5
W	2.3	3.9	4.7	2.9	.4	.1						14.4	8.0
WNW	.7	.5	.3	.1								1.6	4.8
NW	.3	.1			.0	.0						.4	4.3
NNW	.1	.1	.0									.3	4.1
VARBL		.1	3.3	1.7	.3	.1	.0					5.4	10.5
CALM												28.9	
	13.5	19.3	22.2	13.5	2.0	.6	.0					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 6693

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 147
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

FEB
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											.3	2.5
NNE	.3	.3										.5	3.5
NE	1.3	3.3	.1									4.7	4.7
ENE	3.0	3.3	2.0	.5								8.8	5.1
E	2.1	1.6	1.3	.1								5.1	4.8
ESE	.3											.3	2.0
SE	.3											.3	2.0
SSE													
S	.1		.1									.3	5.5
SSW	.4	.8	.3	.3		.1						1.8	7.6
SW	.4	.7	2.0	1.4	.5							5.0	10.1
WSW	.5	1.8	6.6	2.2	.8							11.9	9.4
W	1.6	2.8	2.6	.5								7.5	6.2
WNW	.4	.3										.7	3.4
NW	.3											.3	2.0
NNW	.5											.5	2.3
VARBL		.1	1.2	.9	.3							2.5	11.1
CALM												49.1	
	12.2	14.8	16.1	6.0	1.6	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10-140 STATION NAME RAMSTEIN AB DL 73-81 YEARS FEB MONTH
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.1										.9	2.0
NNE	.7											.7	2.0
NE	2.5	2.5	.8									5.8	4.2
ENE	2.4	2.5	2.5	.5								7.9	5.6
E	1.3	1.2	.7	.5								3.7	5.7
ESE	.7	.1										.8	2.2
SE	.3											.3	1.0
SSE		.3										.3	6.0
S	.3											.3	2.0
SSW		.9	.3	.1								1.3	6.3
SW	.3	.7	2.6	1.8								5.4	9.6
WSW	1.4	1.7	6.4	3.0	.4							13.0	8.8
W	2.2	2.8	3.0	.7								8.7	5.9
WNW	.3											.3	1.5
NW													
NNW	.1	.1										.3	3.0
VARBL		.1	1.2	.9	.4	.1						2.8	12.0
CALM												47.9	
	13.1	13.0	17.5	7.6	.8	.1						100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1.140 STATION RAMSTEIN AB DL 73-81 YEARS FEB 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	.3										.8	2.8
NNE	1.3	.1										1.4	2.1
NE	1.7	2.4	.4									4.5	4.1
ENE	2.0	4.3	2.5	.4								9.2	5.5
E	2.5	.7	.9	.7								4.7	4.9
ESE	.9	.4	.1									1.3	3.1
SE	.1	.1										.3	3.5
SSE	.3											.3	2.0
S	.1	.3										.4	3.7
SSW	.4	.7	.8	.1								2.0	6.8
SW	.4	1.3	1.4	1.4	.4							5.0	9.1
WSW	1.0	2.9	4.3	4.7	.5							13.5	9.4
W	1.8	3.7	1.7	.7	.1							8.0	6.0
WNW	.5	.4	.1									1.0	4.1
NW	.3	.1										.4	3.7
NNW													
VARBL		.1	2.1	.9	.5							3.7	10.9
CALM												43.6	
	13.8	17.7	14.4	8.9	1.6							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10 140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

FEB

MONTH

ALL WEATHER

CLASS

0900-1100

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5										1.0	3.4
NNE	1.7	.9										2.6	3.0
NE	1.4	3.1	.1									4.7	4.3
ENE	2.8	4.1	4.3	.1								11.3	6.0
E	2.5	1.7	2.1	1.0								7.3	5.8
ESE	.9	.4	.1									1.4	3.0
SE		.1										.1	4.0
SSE	.5	.3										.8	3.2
S		.4	.4									.8	6.7
SSW	.5	.5	.9	.5								2.5	7.3
SW	.4	1.7	2.0	1.7	.5							6.3	9.3
WSW	1.0	1.8	5.4	4.1	1.2							13.5	9.8
W	1.4	2.9	3.1	1.6								9.1	7.1
WNW	.5	.7										1.2	3.2
NW	.3	.1										.4	2.7
NNW	.1	.1										.3	3.5
VARBL			4.7	1.3	.3							6.3	9.5
CALM												30.3	
	14.7	19.4	23.2	10.4	2.0							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10-14
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

FEB
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	1.0	1.3										2.4	3.8
NNE	2.1	3.5	.1									5.8	4.1
NE	3.9	5.8	1.4									11.2	4.4
ENE	2.5	3.8	3.7	.7	.1							10.8	6.2
E	1.0	.9	1.4	1.0								4.5	7.5
ESE	.7	.4										1.0	3.1
SE	.3											.3	3.0
SSE	.3	.1	.1									.5	4.3
S	.8	.7	.3									1.7	4.5
SSW	.3	1.3	1.2									2.8	6.4
SW	.9	1.3	3.5	1.7	.9	.4						8.8	10.2
WSW	1.3	2.6	5.6	3.8	.8							14.2	9.2
W	1.8	3.1	3.5	2.9	.3							11.7	8.0
WNW	.5	.9	.4									1.8	4.7
NW	.3	.3										.5	3.5
NNW	.1	.5										.7	3.8
VARBL	.3		6.6	3.4	.3							10.5	10.2
CALM												11.0	
	18.1	26.6	28.0	13.5	2.4	.4						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 147 STATION RAMSTEIN AB DL 73-81 YEARS FEB NORTH
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)

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	1.4	1.1	.4									2.9	3.8
NNE	2.9	3.5	.5									7.2	4.1
NE	3.5	7.1	1.8									12.5	4.7
ENE	2.0	3.4	2.8	.5								8.7	6.0
E	.9	1.2	2.0	1.6								5.7	7.9
ESE	.4	.7										1.1	4.0
SE	.3	.1										.4	2.3
SSE	.4	.1	.3									.8	4.0
S	1.3	1.4	.4									3.2	4.3
SSW	1.6	1.6	.7	.1								3.9	4.4
SW	.9	1.4	2.6	2.4	.7	.3						8.3	10.0
WSW	2.0	2.9	4.1	3.5	1.2							13.7	8.9
W	1.8	3.3	3.9	1.6	.1							10.8	7.3
WNW	.4	.8	.3									1.4	5.2
NW	.4	.3	.1									.8	4.0
NNW	.4											.4	2.7
VARBL	.1		6.8	2.0	.1							9.1	9.5
CALM												9.6	
	20.8	28.9	26.7	11.7	2.1	.3						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 761

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1-140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

FEB

MONTH

ALL WEATHER

CLASS

1800-2000

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.4	.1									1.2	3.2
NNE	3.0	.8										3.8	2.6
NE	3.0	2.6	.1									5.8	3.4
ENE	5.1	4.9	2.2	.3								12.5	4.5
E	3.8	1.6	.5	.5								6.4	4.2
ESE	.3	.1										.4	2.7
SE	.8	.3										1.0	2.9
SSE	.1	.3										.4	3.7
S	.9	.3	.1									1.2	3.4
SSW	1.3	1.7	.8									3.8	4.5
SW	.9	1.0	1.8	1.2	.7	.4						6.0	10.2
WSW	1.2	1.4	4.3	2.8	.5							10.2	9.0
W	2.2	2.1	1.7	.9	.3							6.7	5.8
WNW	.3	.3	.1	.1								.8	6.0
NW	.1											.1	3.0
NNW	.1											.1	1.0
VARBL			2.1	1.4	.1	.1						3.8	11.3
CALM												35.7	
	23.8	17.7	14.0	6.7	1.6	.5						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 140 STATION NAME RAMSTEIN AB DL YEARS 73-81 FEP NORTH
STATION 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	.4											.4	1.7
NNE	.7	.7										1.3	3.5
NE	2.5	2.0	.4									4.9	3.6
ENE	2.6	3.8	2.1	.5								9.1	5.3
E	2.3	1.7	.5	.8								5.0	5.0
ESE	.7											.7	1.6
SE	.3											.3	2.0
SSE	.3	.1										.4	3.3
S	.1	.4	.1									.7	5.2
SSW	.4	.9	.9	.3								2.5	6.9
SW	.5	2.1	1.4	1.1	.3	.3	.1					5.8	9.2
WSW	1.4	1.4	3.8	3.8	.3							10.8	9.5
W	1.7	1.7	1.8	.5								5.8	6.0
WNW	.3	.1	.1									.5	5.0
NW	.1											.1	3.0
NNW	.4											.4	2.7
VARBL			1.4	.7	.7							2.8	12.3
CALM												48.8	
	14.3	15.0	12.7	7.6	1.2	.3	.1					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 761

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.5	.1									1.3	3.3
NNE	1.6	1.2	.1									2.9	3.5
NE	2.5	3.6	.7									6.7	4.2
ENE	2.8	3.8	2.8	.4	.0							9.8	5.5
E	2.0	1.3	1.2	.8								5.3	5.7
ESE	.6	.3	.0									.9	2.9
SE	.3	.1										.4	2.6
SSE	.2	.1	.0									.4	3.7
S	.4	.4	.2									1.1	4.4
SSW	.6	1.1	.7	.2		.0						2.6	6.0
SW	.6	1.3	2.2	1.6	.5	.2	.0					6.3	9.8
WSW	1.2	2.1	5.1	3.5	.7							12.6	9.3
W	1.8	2.8	2.7	1.1	.1							8.5	6.7
WNW	.4	.4	.1	.0								1.0	4.4
NW	.2	.1	.0									.3	3.4
NNW	.2	.1										.3	2.9
VARBL	.0	.0	3.3	1.4	.3	.0						5.2	10.4
CALM												34.5	
	16.3	19.1	19.1	9.1	1.6	.2	.0					100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 6094

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH MAR
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	.1									.6	4.4
NNE	.6	.4										1.0	3.0
NE	1.9	1.7	.5	.1								4.2	4.1
ENE	1.3	2.5	.8	.1								4.8	4.9
E	1.7	.6	.2									2.5	3.2
ESE	.2											.2	2.5
SE		.2										.2	6.0
SSE	.1											.1	3.0
S		.5	.2									.7	6.0
SSW	.2	.6	.6	.2								1.7	6.4
SW	1.3	2.0	1.9	2.0	.4							7.7	8.3
WSW	1.3	3.2	6.5	2.6	.5							14.1	8.3
W	2.3	3.1	1.4	1.2	.1							8.1	6.1
WNW	1.4	.7		.1								2.3	3.4
NW	.5	.2										.7	2.8
NNW	.2	.1										.4	2.3
VARBL		.1	1.3	.7		.1						2.3	10.6
CALM												48.4	
	13.4	16.3	13.6	7.2	1.2	.1						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1-147 STATION NAME RAMSTEIN AB DL 73-81 YEARS MONTH MAR
CLASS ALL WEATHER HOURS (LST) 0330-0500
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	.6	.2									1.3	4.6
NNE	.2	.5	.1									.8	4.0
NE	1.9	1.3	.7									3.9	4.3
ENE	1.7	2.5	.8									4.3	4.9
E	1.6	.8										2.4	3.2
ESE	.4	.2										.6	2.8
SE		.1										.1	4.0
SSE	.1											.1	2.0
S		.1	.1									.2	7.0
SSW	.2	.5	.2									1.0	5.3
SW	1.1	1.8	2.9	1.4	.1	.1						7.4	8.3
WSW	1.3	3.8	6.2	3.6	.6							15.5	8.5
W	1.9	3.2	2.7	1.3	.2							9.4	6.7
WNW	.1	1.0	.2									1.3	4.7
NW	.6	.4										1.0	3.4
NNW	.1		.2									.4	5.7
VARBL			1.7	.6								2.3	9.5
CALM												47.9	
	11.0	16.8	16.2	6.9	1.0	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 16140 STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH MAR
CLASS ALL WEATHER HOURS (L & T) 0600-0800
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.4	.2									1.3	4.1
NNE	.5	.4										.8	3.7
NE	1.2	1.2	.6									3.0	4.2
ENE	1.3	2.3	1.6									5.1	5.4
E	1.8	1.7	.2									3.7	3.6
ESE	.6	.1										.7	2.2
SE													
SSE													
S	.6	.1	.2									1.0	3.8
SSW	1.0	.5	.2	.1								1.8	4.5
SW	.7	2.5	3.6	1.9	.1							8.8	8.0
WSW	1.3	3.3	5.1	3.2	.2							13.3	8.5
W	2.9	1.6	3.2	1.4	.6							9.7	7.3
WNW	.7	.2	.1									1.1	3.6
NW	.4											.4	2.7
NNW	.1	.1										.2	4.0
VARBL			2.2	.8	.4	.1						3.5	11.6
CALM												45.6	
	13.7	14.3	17.3	7.5	1.3	.1						100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 147 STATION RAMSTEIN AB DL 73-81 YEARS MAR
STATION N.W.E. NORTH
ALL WEATHER CLASS 1950-1999
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	1.0	.7	.5									2.2	4.4
NNE	1.1	1.2										2.3	3.7
NE	2.3	2.5	.1	.1								5.0	3.8
ENE	2.6	4.3	2.4	.8								10.2	5.6
E	1.6	1.4	1.2	.2								4.4	5.4
ESE	.7	.1			.1							1.0	3.6
SE	.1	.1										.2	4.5
SSE	.2	.2										.5	3.0
S		.8	.6									1.4	6.3
SSW	.4	1.1	.5	.1	.1							2.2	6.3
SW	1.0	2.5	3.7	3.6	.6	.1						11.5	9.2
WSW	1.3	3.6	6.5	5.1	.6	.1						17.2	9.2
W	2.5	3.2	5.0	2.0	.8							13.6	7.5
WNW	1.0	.5	.1									1.6	3.2
NW	.6											.6	2.0
NNW	.2	.6										.8	3.9
VARBL	.1		4.7	1.7	.1	.1						6.7	9.7
CALM												18.8	
	16.6	22.9	25.2	13.7	2.4	.4						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
US/FETAC
AF WEATHER SERVICE/MAC

SURFACE WINDS

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

1-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

MAR
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	2.4	1.7										3.3	2.8
NNE	2.0	2.3	.4									4.7	4.0
NE	2.3	2.4	1.0	.2								5.9	4.7
ENE	2.2	2.4	1.2	1.0								6.7	5.9
E	.5	1.8	2.2	1.1								5.5	7.7
ESE	.2	.2										.5	3.3
SE	.4	.1										.5	2.3
SSE	.2		.2									.5	4.5
S	.5	.6	.4									1.4	4.6
SSW	.8	1.8	1.1	.1	.1							3.9	6.1
SW	.7	2.4	4.3	3.9	.7	.2						12.3	12.2
WSW	.8	3.1	5.9	5.1	.8	.6						16.4	10.4
W	1.3	3.7	3.9	3.6	1.2							13.7	9.0
WNW	.6	1.3	.2	.1								2.3	4.8
NW	.8	.5										1.3	3.4
NNW	.6	.5	.1									1.2	4.0
VARBL		.1	11.7	3.3	.2							15.4	9.4
CALM												4.5	
	16.4	24.1	32.5	18.5	3.1	.8						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1-142 STATION NAME RAMSTEIN AB DL 73-81 YEARS MAR MONTH
1500-1700 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	1.3	1.2	.2									2.5	4.0
NNE	2.2	2.4	.2									4.8	3.9
NE	1.3	2.9	.5	.2								4.9	5.0
ENE	1.1	2.7	2.0	.4	.1							6.3	6.4
E	.7	1.4	1.7	.7								4.5	7.1
ESE	.2	.2	.1									.6	4.4
SE	.1	.4										.5	4.8
SSE		.6										.6	4.6
S	1.2	1.2	.8									3.0	4.5
SSW	1.6	2.9	1.6									6.0	4.9
SW	.5	2.4	3.1	4.1	.1	.1						12.3	9.7
WSW	1.0	3.1	5.5	4.7	1.4							15.7	9.9
W	2.9	4.3	5.1	3.0	1.0							16.2	8.0
WNW	.8	1.3	.8	.1								3.1	5.7
NW	.7	.6	.1									1.4	4.1
NNW	.7	.3										1.6	3.7
VARBL		.1	9.2	3.2	.4							12.9	9.6
CALM												5.1	
	16.2	28.1	31.1	16.4	3.0	.1						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 STATION RAMSTEIN AB DL 73-81 YEARS MAR MONTH
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.1	.5										1.6	2.6
NNE	1.6	.6										2.2	2.6
NE	2.9	3.5	.4									6.7	3.9
ENE	2.9	2.4	2.6	.1								8.0	5.1
E	1.4	1.6	1.1									4.1	4.9
ESE	.4	.1										.5	2.5
SE	.6	.1										.7	2.7
SSE	.5	.6	.1									1.2	4.3
S	.8	.7	.1									1.7	3.6
SSW	1.1	2.4	.6	.4								4.4	5.2
SW	1.0	3.1	2.2	1.6	.1	.4						8.2	8.3
WSW	2.3	3.1	4.7	2.6	.5							13.1	7.6
W	3.7	2.9	2.9	1.6	.1							10.4	6.5
WNW	1.1	.6										1.7	2.9
NW	.4	.4										.7	3.2
NNW	.2	.1										.4	2.7
VARBL			3.7	1.2								4.9	9.7
CALM												29.6	
	21.0	22.6	18.3	7.4	.7	.4						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AT: WEATHER SERVICE/MAC

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

SURFACE WINDS

17140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

MAR
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	.4	.4										.7	2.7
NNE	2.0	.4										2.4	2.5
NE	1.6	1.6	.1	.1								3.3	3.9
ENE	2.5	3.1	1.8	.1								7.5	4.9
E	1.1	.8										1.9	3.0
ESE	.5	.1										.6	2.2
SE	.2											.2	2.5
SSE	.2		.1									.4	5.3
S	.6	.4	.4									1.3	4.2
SSW	.5	1.2	.5	.2								2.4	6.0
SW	1.3	1.8	1.9	1.2	.4	.2						6.8	8.6
WSW	1.7	3.1	4.9	3.1	.5							13.3	8.3
W	3.0	2.6	2.0	1.3								9.0	6.0
WNW	.6	.7	.1									1.4	4.0
NW													
NNW	.1		.1									.2	5.0
VARBL	.1		1.9	1.0	.1							3.1	10.0
CALM												45.3	
	16.4	16.1	13.9	7.1	1.0	.2						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

100140 STATION NAME RAMSTEIN AB DL 73-81 YEARS MAR MONTH ALL 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	.9	.6	.2									1.7	3.6
NNE	1.3	1.7	.1									2.4	3.5
NE	1.9	2.1	.5	.1								4.6	4.3
ENE	1.9	2.8	1.7	.3	.0							6.6	5.4
E	1.3	1.3	.8	.3								3.6	5.3
ESE	.4	.1	.0		.0							.6	3.0
SE	.2	.1										.3	3.5
SSE	.2	.2	.1									.4	4.2
S	.5	.5	.4									1.3	4.7
SSW	.7	1.4	.7	.1	.0							2.9	5.5
SW	.9	2.3	2.9	2.5	.3	.1						9.1	9.0
WSW	1.4	3.3	5.6	3.8	.6	.1						14.8	8.9
W	2.5	3.1	3.3	1.9	.5							11.3	7.3
WNW	.8	.8	.2	.0								1.8	4.2
NW	.5	.3	.0									.8	3.3
NNW	.3	.3	.1									.6	3.8
VARBL	.0	.0	4.5	1.6	.1	.0						6.4	9.7
CALM												30.7	
	15.6	20.2	21.0	10.6	1.7	.3						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 6694

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

APR
MONTH

ALL WEATHER
CLASS

0000-0200
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	.4	.1									1.5	3.3
NNE	1.6	.4	.2									2.2	3.2
NE	1.6	1.4	.2									3.2	3.9
ENE	1.4	1.7	1.1	.1								4.3	4.9
E	1.4	.4										1.7	2.4
ESE	.7	.1										.9	2.3
SE	.1											.1	1.0
SSE													
S	.2											.2	2.0
SSW	.1	.4	.5		.1							1.1	7.4
SW	.1	.7	1.7	.2								2.8	7.9
WSW	1.1	2.7	2.5	1.0	.2							7.5	7.0
W	2.7	3.3	1.6	.5	.2							8.4	5.5
WNW	1.5	.4										1.9	2.5
NW	.1											.1	1.0
NNW	.9	.2	.1									1.2	2.9
VARBL		.2	.9	.2	.1							1.5	9.7
CALM												61.2	
	14.6	12.4	9.0	2.1	.7							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
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	.7	.7										1.5	3.5
NNE	.7	.4	.1									1.2	3.9
NE	.6	1.0	.1									1.7	4.2
ENE	1.2	1.7	1.2	.1								4.3	5.3
E	2.3	.4	.2									3.0	2.8
ESE	.6											.6	1.4
SE	.2											.2	2.0
SSE	.1											.1	1.0
S	.1		.1									.2	4.0
SSW	.1		.4									.5	6.8
SW	.5	1.6	1.0	.7	.1							4.0	7.7
WSW	1.4	3.1	3.6	1.4								9.4	7.0
W	2.8	2.0	2.1	.5								7.4	5.2
WNW	1.5	.2		.1								1.9	3.3
NW	.4											.4	2.3
NNW		.1										.1	5.0
VARBL		.1	.7	.4	.1	.1						1.5	11.9
CALM												62.0	
	13.5	11.4	9.6	3.2	.2	.1						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 141 STATION NAME RAMSTEIN AB DL 73-81 YEARS APR 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	.7	.7										1.5	3.5
NNE	1.4	.2	.1									1.7	3.3
NE	1.2	2.1	.2									3.6	4.1
ENE	1.1	3.0	.7	.2								5.1	5.3
E	3.2	1.1	.7									5.1	3.6
ESE	1.5	.6										2.1	2.8
SE	.1											.1	2.0
SSE	.1											.1	2.0
S	.1	.1										.2	3.0
SSW	.1	.2	.1	.1								.6	7.0
SW	.6	2.0	1.6	.9								5.1	7.2
WSW	1.9	2.2	5.3	1.5	.2							11.1	7.4
W	2.5	2.1	2.2	.7	.2							7.8	6.4
WNW	.6	.1	.1	.1								1.0	4.5
NW	.1	.4										.5	4.5
NNW	.1	.5										.6	4.2
VARBL			2.3	.6	.1							3.1	9.7
CALM												50.7	
	15.4	15.4	13.6	4.2	.6							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFI WEATHER SERVICE/MAC

SURFACE WINDS

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

1 - 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

APR
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.2	.2									4.3	4.2
NNE	2.2	2.2	.5									4.9	3.9
NE	3.2	4.9	.7	.1								9.0	4.5
ENE	2.5	4.8	2.3	1.0								10.6	5.9
E	1.5	2.3	.9	.7								5.4	6.0
ESE	.1	.6	.1	.1								1.0	6.1
SE	.2	.1	.1									.5	4.8
SSE	.2											.2	2.0
S	.2	.2	.1									.6	4.4
SSW	.4	.9	.5	.1								1.9	5.7
SW	.5	1.0	1.5	1.4	.1	.1	.1					4.7	9.9
WSW	.5	2.3	4.4	3.7	.2							11.2	9.3
W	3.3	3.1	2.1	2.6	.2							11.4	6.9
WNW	.6	1.1	.2	.2								2.2	5.6
NW	.6	.9	.2									1.7	4.6
NNW	1.1	1.2	.2									2.6	4.0
VARBL		.5	11.2	3.5	.1							15.3	9.2
CALM												12.6	
	18.8	28.6	25.6	13.5	.7	.1	.1					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 - 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

APR
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	2.5	3.5	.4									6.3	3.9
NNE	2.1	3.2	.5									6.4	4.4
NE	1.4	3.0	.9	.2								5.4	5.5
ENE	1.2	3.0	2.6	.6								7.4	6.5
E	.6	1.7	1.6	.2								4.2	6.6
ESE		.6	.5	.2								1.4	7.6
SE	.5	.1	.4									1.0	4.6
SSE	.1	.2	.1									.5	5.3
S	.6	.7	.2									1.6	4.5
SSW	.5	.7	.6			.1						2.0	6.9
SW	.4	1.2	1.6	1.4	.2							4.9	9.2
WSW	.9	2.5	2.8	2.7	.5							9.4	8.8
W	1.6	3.5	4.7	3.5	1.0	.4						14.6	9.4
WNW	.4	1.4	1.1	.1								3.0	6.4
NW	.9	1.4										2.2	3.9
NNW	.7	1.0	.1									1.9	3.7
VARBL		.2	19.7	5.2	.4	.1						25.6	9.5
CALM												2.3	
	14.3	28.6	37.8	14.2	2.1	.6						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1614J STATION NAME RAMSTEIN AB DL YEARS 73-81 APP MONTH
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	2.6	.4	.4								5.6	4.6
NNE	1.5	2.5	.2									4.2	4.3
NE	1.7	3.2	1.1	.4								6.4	5.1
ENE	.5	3.0	2.7	.6								6.8	7.0
E	.9	2.1	2.8	.6								6.4	7.0
ESE	.4	.4	1.0									1.7	5.9
SE	.2	.1	.1									.5	4.0
SSE	.2	.2	.1									.6	3.8
S	.7	1.2	.4									2.3	5.1
SSW	.6	.7	.7	.2								2.3	5.9
SW	1.0	1.6	2.0	.5		.1						5.2	7.5
WSW	1.1	1.5	3.2	3.2	.6	.1	.1					9.9	9.6
W	1.4	2.7	5.8	2.6	.7	.2						13.5	9.0
WNW	.6	1.7	1.0	.2								3.6	5.9
NW	.4	1.1	.2	.1								1.9	5.3
NNW	1.5	1.4	.6									3.5	4.4
VARBL		.2	17.5	4.7	.2	.1						22.8	9.2
CALM												2.8	
	14.9	26.3	40.0	13.6	1.6	.6	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

10147
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

APR
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	2.8	2.3	.4									5.6	3.7
NNE	2.5	3.1	.1									5.7	3.5
NE	4.4	3.6	1.0	.1								9.1	4.0
ENE	1.9	4.0	1.7	.4								7.9	5.5
E	2.7	1.6	1.5	.2								6.0	4.7
ESE	.9	.7	.4									2.0	4.4
SE	.4											.4	1.7
SSE	.6	.2										.2	3.3
S	.5	.4		.1								1.0	4.6
SSW	.7	1.1	.5	.1	.1							2.6	5.9
SW	.9	1.4	1.2	.4								3.8	6.5
WSW	1.6	3.0	3.3	1.9		.1						9.9	7.6
W	2.2	4.2	3.1	1.1	.2							10.9	6.5
WNW	1.4	1.5	.9	.1								3.8	4.9
NW	.7	1.1		.1								2.0	4.8
NNW	.5	1.1	.1	.1								1.9	5.1
VARBL		.2	4.9	.7								5.9	8.4
CALM												20.7	
	24.7	29.5	19.1	5.4	.4	.1						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1:140 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS APR 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	.7	.6	.4									1.7	4.6
NNE	1.5	.6										2.1	2.9
NE	1.6	1.6	.5									3.7	4.1
ENE	1.7	1.4	1.2	.5								4.8	5.6
E	1.4	.6	.1									2.1	3.4
ESE	.9	.1										1.0	1.6
SE	.2											.2	2.0
SSE	.1											.1	1.0
S		.5										.5	4.8
SSW	.7	.1	.1		.2							1.2	6.8
SW	.4	1.2	.9	.1	.2							2.8	7.0
WSW	1.4	3.1	2.5	.7								7.7	6.2
W	2.8	2.8	2.3	.4	.4							8.8	5.7
WNW	2.1	.4	.2									2.7	3.0
NW	.5											.5	2.3
NNW	.4	.2										.6	3.4
VARBL			1.2	.5								1.7	9.6
CALM												57.7	
	16.4	13.3	9.5	2.2	.9							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 810

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 147
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

APR
MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.6	.2	.0								3.4	4.0
NNE	1.7	1.7	.2									3.6	3.8
NE	2.0	2.6	.6	.1								5.3	4.5
ENE	1.4	2.8	1.7	.4								6.4	5.8
E	1.7	1.3	1.0	.2								4.2	5.0
ESE	.6	.4	.2	.0								1.3	4.3
SE	.3	.0	.1									.4	3.5
SSE	.2	.1	.0									.3	3.4
S	.3	.4	.1	.0								.8	4.6
SSW	.4	.5	.4	.1	.1	.0						1.5	6.3
SW	.5	1.3	1.4	.7	.1	.0	.0					4.2	7.9
WSW	1.2	2.5	3.5	2.0	.2	.0	.0					9.5	8.0
W	2.4	3.0	3.0	1.5	.4	.1						10.3	7.2
WNW	1.1	.8	.4	.1								2.5	4.7
NW	.5	.6	.1	.0								1.2	4.3
NNW	.6	.7	.2	.0								1.5	4.1
VARBL		.2	7.3	2.0	.1	.0						9.7	9.3
CALM												33.8	
	16.6	20.7	20.5	7.3	.9	.2	.0					100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 6477

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 014.7 STATION NAME RAMSTEIN AB DL 73-81 YEARS MAY MONTH
0000-0200 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	.1	.2										.4	3.7
NNE	.5		.1									.6	3.2
NE	.7	.1	.1									1.0	3.4
ENE	2.3	2.0	.6	.1								5.0	4.2
E	3.9	.8	.2									5.0	2.7
ESE	1.0	.1										1.1	2.1
SE													
SSE													
S	.2	.1	.1									.5	3.8
SSW	.4	1.0	.6	.1								2.0	5.8
SW	1.0	1.3	.7									3.0	5.0
WSW	2.0	2.6	1.4	.1								6.2	4.9
W	3.5	3.7	1.2	.4								8.7	4.5
WNW	1.0	.2										1.2	2.6
NW	.4											.4	1.7
NNW	.4	.2										.6	3.0
VARBL			1.2									1.2	8.7
CALM												63.2	
	17.2	12.6	6.3	.7								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

MAY
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.4										1.0	3.0
NNE	.6	.2										.8	3.1
NE	.8	.6										1.4	2.9
ENE	1.2	2.2	1.0									4.3	4.5
E	3.1	1.1										4.2	2.6
ESE	.6	.1										.7	2.2
SE	.1											.1	1.0
SSE				.1								.1	11.0
S	.1	.1										.2	3.0
SSW	.2	.8	.1									1.2	4.8
SW	.8	1.9	1.3	.4								4.4	6.3
WSW	1.2	3.3	1.9	.5								6.9	5.8
W	3.9	2.3	1.9	.6								8.7	4.9
WNW	.7	.1	.1									1.0	2.9
NW	.1	.1										.2	3.5
NNW	.5											.5	2.3
VARBL			1.2									1.2	8.6
CALM												63.0	
	14.7	13.3	7.5	1.6								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0147 STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH MAY
CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.6	.1									1.6	3.8
NNE	.7	1.6	.1									2.4	4.1
NE	1.1	1.3	.1									2.5	4.0
ENE	3.0	4.7	1.7									9.3	4.8
E	4.2	1.9	.2	.6								6.9	3.9
ESE	1.0	.4										1.3	2.8
SE	.1											.1	1.0
SSE													
S													
SSW	.5	.7	1.3									2.5	6.0
SW	.7	2.0	2.4	.1								5.3	6.2
WSW	1.3	2.7	4.5	.8								9.4	6.8
W	3.0	2.5	3.1	1.2								9.8	6.4
WNW	.7	.2										1.0	3.3
NW	.2											.2	2.5
NNW	.1	.1										.2	3.5
VARBL			2.9	.2	.2							3.3	8.9
CALM												44.1	
	17.4	18.8	16.5	3.0	.2							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

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

SURFACE WINDS

1 F140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
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 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.0	.1									3.2	4.2
NNE	1.0	1.4	.2									2.6	4.2
NE	2.0	3.1	.7	.1								6.0	4.8
ENE	2.5	6.3	1.8	.6								11.2	5.5
E	2.3	1.7	2.0	.8	.1							6.9	6.2
ESE	.5	.2	.2	.1								1.1	6.0
SE	.4	.1										.5	3.0
SSE	.6	.1										.7	2.2
S	.4	.6		.1								1.1	4.6
SSW	.2	1.1	.7									2.0	5.9
SW	.5	2.0	2.4	1.7								6.6	8.4
WSW	2.4	3.0	5.1	1.4								11.9	7.0
W	3.6	3.2	3.2	3.8	.2							14.1	7.7
WNW	1.3	.7										2.0	3.1
NW	.5	.2										.7	2.8
NNW	.5	.2	.2									1.0	4.5
VARBL		.1	13.4	4.5	.2							18.3	9.4
CALM												10.0	
	19.6	26.3	30.2	13.3	.6							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
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	1.7	2.3	.2									4.2	4.3
NNE	2.0	2.3	.2									4.5	3.9
NE	1.0	3.9	.2									5.1	4.6
ENE	.8	2.4	1.9	.5								5.6	6.7
E	.4	2.0	1.6	1.0								4.9	7.6
ESE	.5	.2	.2	.2								1.2	6.2
SE	.1	.1										.2	4.5
SSE		.7	.4	.1								1.2	7.0
S	.6	1.2	.4									2.2	4.8
SSW	.1	1.9	1.2	.4	.1							3.7	7.4
SW	.4	2.5	2.7	.8	.1							6.6	7.9
WSW	.5	3.0	4.4	2.4	.1							10.4	8.3
W	2.2	3.0	4.2	1.9	.4							11.6	7.6
WNW	1.0	2.2	.5	.4	.1							4.1	5.9
NW	.4	.8	.2									1.4	4.8
NNW	.7	1.1										1.8	3.9
VARBL		.2	19.5	8.5	.7							28.9	10.0
CALM												2.4	
	12.2	29.9	37.9	16.1	1.6							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

MAY
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	1.7	1.9	.2									3.8	4.1
NNE	1.9	2.3	.2									4.4	4.0
NE	1.9	2.5	.5									4.9	4.2
ENE	.7	3.1	1.6	.6								6.0	6.4
E	1.0	2.4	2.3	1.2								6.8	7.5
ESE		.7	1.1	.2								2.0	7.6
SE	.5	.5	.1									1.1	3.8
SSE	.4	.6	.1									1.1	3.9
S	1.4	1.1	.2									2.7	3.9
SSW	.7	1.1	1.1									2.9	5.6
SW	.5	2.3	3.3	1.0	.1							7.2	7.5
WSW	1.2	3.0	3.8	1.7	.1							9.8	7.6
W	.8	4.7	5.4	3.3	.5	.1						14.8	8.7
WNW	1.3	1.6	.6	.1								3.6	4.6
NW	.2	.5	.4									1.1	5.8
NNW	1.1	1.2										2.3	3.7
VARBL		.2	16.1	6.5	.1							22.9	9.6
CALM												2.6	
	15.3	29.5	37.0	14.6	.8	.1						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS MAY MONTH
1800-2000 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	2.6	.8										3.5	2.7
NNE	3.3	2.3	.1									5.7	3.4
NE	3.3	2.9	.6									6.8	3.9
ENE	3.1	4.3	2.0									9.4	4.8
E	2.3	2.6	2.3	.6								7.8	5.7
ESE	.7	.6	.5	.1								1.9	5.0
SE	.8											.8	1.9
SSE	.9	.1										.7	2.8
S	1.6	.8	.1									2.5	3.5
SSW	1.4	1.2	.5									3.1	4.0
SW	.7	2.5	1.3	.7								5.3	6.6
WSW	3.0	2.5	2.5	.6	.1							8.7	5.8
W	3.2	3.8	5.0	1.4	.2							13.7	6.9
WNW	.7	.7	.6	.4								2.4	5.9
NW	.7	.2	.4									1.3	4.7
NNW	.2	.5										.7	4.7
VARBL		.2	7.6	1.9								9.9	9.0
CALM												15.8	
	29.4	26.2	23.5	5.7	.4							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS MAY NORTH
2100-2300 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	.7	.2										1.0	2.5
NNE	1.4	.4										1.8	2.5
NE	2.0	1.6	.1									3.7	3.4
ENE	3.1	2.2	.6	.1								6.0	3.7
E	2.3	.7	.5									3.5	3.2
ESE	1.4	.2										1.7	1.9
SE	.5											.5	1.8
SSE	.2											.2	1.5
S	.4		.1									.5	4.0
SSW	1.3	.6	.2	.1								2.3	4.1
SW	.7	1.8	.7	.2								3.5	5.6
WSW	1.8	1.7	1.6	.2								5.3	5.5
W	2.8	3.1	2.3	.7								8.9	5.7
WNW	1.2	.6			.1							1.9	3.9
NW			.1	.1								.2	11.0
NNW	.4											.4	1.3
VARBL			1.8	.6								2.4	8.9
CALM												56.5	
	20.2	13.0	8.0	2.2	.1							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0140 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS MAY MONTH ALL WEATHER CLASS ALL MONTHS (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	1.1	.1									2.3	3.7
NNE	1.4	1.3	.1									2.9	3.7
NE	1.6	2.0	.3	.0								3.9	4.1
ENE	2.1	3.4	1.4	.2								7.1	5.1
E	2.4	1.7	1.1	.5	.7							5.8	5.2
ESE	.7	.3	.3	.1								1.4	4.5
SE	.3	.1	.0									.4	2.8
SSE	.2	.2	.1	.0								.5	4.4
S	.6	.5	.1	.0								1.2	4.0
SSW	.6	1.0	.7	.1	.0							2.5	5.6
SW	.7	2.0	1.9	.6	.0							5.2	7.0
WSW	1.7	2.7	3.2	1.0	.0							8.6	6.7
W	2.9	3.3	3.3	1.7	.2	.0						11.3	6.8
WNW	1.0	.8	.2	.1	.0							2.1	4.5
NW	.3	.2	.1	.0								.7	4.6
NNW	.5	.4	.0									.9	3.7
VARBL		.1	8.0	2.8	.2							11.0	9.5
CALM												32.2	
	18.1	21.2	20.9	7.1	.5	.0						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 6694

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS JUN MONTH
0000-0200 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	1.7											1.0	2.4
NNE	.4	.2										.6	3.6
NE	1.5	.7										2.2	2.9
ENE	.5	.7	.4									1.6	5.0
E	.7											.7	1.7
ESE	.4											.4	1.3
SE		.1										.1	4.0
SSE													
S	.2		.1									.4	3.7
SSW	1.1	.4	.1	.1								1.7	3.7
SW	1.1	.9	.9	.1								3.0	5.2
WSW	1.9	3.3	2.3	.1								7.7	5.2
W	3.5	2.2	1.1	.2								7.0	4.1
WNW	1.1	.6	.2									2.0	3.6
NW	.7	.1										.9	2.4
NNW	.2	.1										.4	3.7
VARBL			.6	.2								.9	9.3
CALM												69.5	
	14.3	9.5	5.8	.9								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

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

SURFACE WINDS

13-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUN
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	.4	.4										.7	3.7
NNE	1.0	.2										1.2	2.6
NE	.4	.9										1.2	4.2
ENE	.1	.2										.4	3.7
E	1.0											1.0	1.6
ESE	.4	.1										.5	2.3
SE													
SSE													
S	.2											.2	2.0
SSW	.4	.5	.4	.1								1.4	5.8
SW	.5	1.0	.7	.4								2.6	6.7
WSW	2.7	3.7	1.6	.2								8.3	5.0
W	3.7	2.7	1.6	.1								8.1	4.2
WNW	.7	.4										1.1	2.7
NW	.4											.4	1.3
NNW	.2											.2	1.5
VARBL			1.1	.2								1.4	9.1
CALM												71.2	
	12.1	10.1	5.4	1.1								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1-145 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS JUN MONTH
CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7										1.9	2.9
NNE	.7	1.0	.1									1.9	3.7
NE	1.4	1.5	.5									3.3	4.1
ENE	2.5	2.6	.2									5.3	3.8
E	3.3	1.9	.1									5.3	3.2
ESE	1.0	.1										1.1	1.8
SE													
SSE	.1											.1	1.0
S													
SSW	.4	1.0	.5									1.9	5.4
SW	1.0	1.5	2.2	.9	.1							5.7	7.3
WSW	3.3	4.3	4.0	.7	.1							12.5	5.9
W	4.1	4.6	2.5	.5								11.6	4.9
WNW	1.0	.2	.2	.1								1.6	3.9
NW		.1	.1									.2	6.7
NNW	.5											.5	2.3
VARBL			2.0	.4								2.3	8.7
CALM												44.8	
	20.4	19.5	12.5	2.6	.2							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS 810

2 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140 RAMSTEIN AB DL 73-81 JUN
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
0900-1100
HOURS (L.S.T.)

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	2.6	.4									4.8	3.8
NNE	2.6	3.0										5.6	3.6
NE	1.2	3.3	.2									4.8	4.3
ENE	3.1	4.3	.9	.2								8.5	4.5
E	2.4	2.5	.4	.6								5.8	4.8
ESE	.9	.4	.1									1.4	3.5
SE	.1											.1	1.0
SSE	.5	.1										.6	2.4
S	.4	.4	.1									.9	3.6
SSW	.7	1.7	.9	.1								3.5	5.3
SW	1.1	2.5	3.2	1.0	.1							7.9	7.3
WSW	2.2	4.2	5.2	1.5	.1							13.2	7.0
W	2.5	3.5	5.1	2.1		.1						13.2	7.2
WNW	1.6	1.0	.4									3.0	3.8
NW	.7	.4	.1									1.2	3.5
NNW	.5	.7	.1									1.4	4.1
VARBL		.4	12.0	2.1	.2							14.7	9.2
CALM												9.3	
	22.4	30.9	29.1	7.7	.5	.1						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 808

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUN
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	1.9	2.2	.5									4.6	4.1
NNE	1.2	2.8	.1									4.2	4.2
NE	1.1	4.6		.1								5.3	4.5
ENE	2.5	3.6	.7	.2								7.0	4.7
E	1.1	1.2	.6	.4	.1							3.5	5.8
ESE	.7	.2	.2									1.2	4.4
SE	.1											.1	1.0
SSE	.7	.1										.9	2.4
S	.9	.7	.2									1.9	4.1
SSW	.7	1.1	.7		.1							2.7	5.8
SW	1.0	2.6	4.3	1.5								9.4	7.7
WSW	1.0	3.0	4.7	1.9	.4							10.9	8.1
W	1.5	4.3	5.9	1.9	.1							13.7	7.5
WNW	.7	1.7	1.0	.1								3.6	5.4
NW	.2	1.0										1.2	4.2
NNW	1.2	1.2	.2									2.7	4.1
VARBL		1.1	16.9	5.4	.6							24.1	9.6
CALM												2.6	
	16.7	31.6	36.3	11.5	1.4							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

104140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUN
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	3.5	.2									5.1	4.4
NNE	3.2	3.3	.1									6.7	3.6
NE	2.3	3.5	.4									6.2	4.1
ENE	1.6	3.1	.5	.2								5.4	5.0
E	1.1	1.4	.2	.7								3.5	5.8
ESE	.5	.4	.1									1.0	4.4
SE	.7	.1	.1									1.0	3.4
SSE	.4	.4	.1									.9	4.3
S	.6	.7	.1									1.5	4.2
SSW	.7	1.0	1.6									3.3	5.9
SW	1.0	2.7	3.7	.9	.1							3.4	7.1
WSW	1.1	3.8	4.6	2.7	.1							12.3	8.1
W	1.5	4.0	6.3	3.2	.6							15.6	8.4
WNW	1.0	1.6	.9									3.5	5.4
NW	.1	.5	.2									.9	5.1
NNW	.9	1.1	.1									2.1	3.9
VARBL	.1	.6	13.6	4.8	.4							19.5	9.5
CALM												3.3	
	18.3	31.6	33.0	12.6	1.2							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

10-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUN
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	2.3										4.9	3.2
NNE	3.6	3.1	.1									6.8	3.5
NE	3.3	3.7	1.0									8.0	4.3
ENE	2.3	2.0	.1									4.4	3.8
E	.7	1.0	.4									2.1	4.6
ESE	.1	.2	.2									.6	5.4
SE	.5	.1	.1									.7	3.7
SSE	.6	.5										1.1	2.7
S	1.2	1.0										2.2	3.4
SSW	1.4	1.6	.9									3.8	4.8
SW	1.6	2.2	1.9	.7								6.4	6.0
WSW	2.7	4.7	5.2	1.5	.2							14.3	6.8
W	3.6	5.7	4.8	1.6	.1							15.8	6.3
WNW	1.2	1.1	.4	.1								2.8	4.5
NW	.6	1.2	.1									2.0	4.3
NNW	.5	.5	.1									1.1	3.9
VARBL			6.7	.9								7.5	8.6
CALM												15.2	
	26.7	31.0	22.0	4.8	.4							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

100140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUN
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.4										1.5	2.3
NNE	2.0	1.5										3.5	3.1
NE	2.0	.7										2.7	2.7
ENE	1.0	.5										1.5	2.7
E	1.1	.5										1.6	2.8
ESE	.5	.1										.6	1.8
SE	.1											.1	2.0
SSE		.1										.1	4.0
S	.1	.4										.5	4.3
SSW	.9	.2	.4									1.5	4.6
SW	.5	1.0	1.1	.6								3.2	7.0
WSW	3.2	2.2	3.0	.4	.1							8.9	5.4
W	5.1	3.5	1.1	.2								9.9	4.1
WNW	1.4	.4	.1									1.9	2.8
NW	.6	.5		.1								1.2	3.8
NNW	.2	.2										.5	3.3
VARBL		.1	.6									.7	7.7
CALM												60.1	
	19.8	12.4	6.3	1.4	.1							100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

JUN
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	1.4	1.5	.1									3.1	3.7
NNE	1.8	1.9	.1									3.8	3.6
NE	1.7	2.4	.3	.0								4.3	4.1
ENE	1.7	2.1	.4	.1								4.3	4.4
E	1.4	1.1	.2	.2	.0							2.9	4.3
ESE	.6	.2	.1									.8	3.3
SE	.2	.0	.0									.3	3.2
SSE	.3	.2	.0									.5	2.9
S	.5	.4	.1									.9	3.8
SSW	.8	.9	.7	.0	.0							2.5	5.2
SW	1.0	1.8	2.3	.8	.0							5.8	7.0
WSW	2.3	3.7	3.8	1.1	.1							11.0	6.6
W	3.2	3.8	3.6	1.2	.1	.0						11.9	6.2
WNW	1.1	.9	.4	.0								2.4	4.3
NW	.4	.5	.1	.0								1.0	3.9
NNW	.5	.5	.1									1.1	3.8
VARBL	.0	.3	6.7	1.8	.2							8.9	9.3
CALM												34.5	
	18.8	22.1	18.8	5.3	.5	.0						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

6476

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUL
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	.1											.1	1.0
NNE	.1	.4										.5	3.3
NE	.1		.1									.2	6.0
ENE	1.1	.4										1.4	2.5
E	.6	.4										1.0	2.8
ESE													
SE	.4											.4	1.7
SSE	.1											.1	2.0
S		.1										.1	5.0
SSW	.4	.7	.2									1.3	4.7
SW	.7	.6	2.2	.6								4.1	7.5
WSW	2.3	2.4	2.4	1.0								8.0	6.1
W	5.1	4.1	1.9	.4								11.5	4.4
WNW	1.9	.6	.1									2.6	2.9
NW	.1	.1										.2	3.0
NNW	.4											.4	2.0
VARBL			.1		.1							.2	13.0
CALM												67.9	
	13.4	9.7	7.0	1.9	.1							100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 6140 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS JUL MONTH 3300-0500 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	.2											.2	1.5
NNE	.2	.2										.5	2.5
NE													
ENE	.1	.1										.2	3.3
E	1.0	.4										1.3	2.4
ESE	.2											.2	1.0
SE	.1											.1	2.0
SSE	.1		.1									.2	5.0
S	.1		.1									.2	4.0
SSW		.1	.5									.6	7.4
SW	1.0	2.0	2.3									5.3	6.0
WSW	2.8	4.3	3.0	.6								10.6	5.6
W	3.9	3.7	1.6	.2								9.4	4.4
WNW	1.2	.2										1.4	2.2
NW	.2	.1										.4	2.7
NNW	.1											.1	2.7
VARBL			.4									.4	8.0
CALM												68.7	
	11.4	11.2	7.9	.8								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS JUL MONTH
ALL WEATHER CLASS 0600-0800 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	1.5
NNE	.5	.2										.7	2.7
NE	.2	.5	.1									.8	4.9
ENE	1.4	1.0		.1								2.5	4.7
E	2.3	1.2	.1	.1								3.7	3.5
ESE	1.1	.1										1.2	2.1
SE	.1	.1										.2	4.0
SSE													
S	.1		.5									.6	7.6
SSW	.5	.5	1.2	.1								2.3	6.8
SW	.6	1.9	2.8	.1								5.4	6.6
WSW	3.1	4.8	5.9	1.3								15.1	6.3
W	4.4	5.9	3.3	.4								14.0	5.1
WNW	1.6	.2										1.8	2.3
NW		.1										.1	4.0
NNW	.4											.4	2.0
VARBL			1.1	.1								1.2	8.5
CALM												49.5	
	16.7	16.5	15.0	2.3								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 836

AD-A122 700

RAMSTEIN AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF
 SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL
 TECHNICAL APPLICATIONS CENTER SCOTT A. 21 JUL 82
 USAFETAC/DS-82/043 SBI-AD-E880 202 F/G 4/2

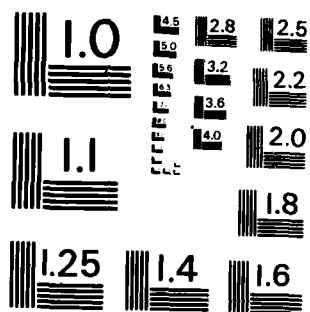
215

UNCLASSIFIED

F/O 4/2

NL

A 10x10 grid of squares. The top-left square (row 1, column 1) is missing, leaving a 9x10 grid of squares. The grid is composed of 90 squares in total.



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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 0140 STATION RAMSTEIN AB DL 73-81 YEARS JUL MONTH
0900-1100 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	1.4	1.3	.1									2.9	3.3
NNE	2.6	1.2	.2									4.1	3.3
NE	2.0	2.9	.4	.1								5.4	4.2
ENE	1.8	3.2	.1	.1								5.3	4.2
E	1.1	2.0	.6									3.7	4.9
ESE	1.0	1.0										1.9	3.3
SE	.1	.1										.2	3.5
SSE	.2		.2									.5	5.0
S	.4	.4	.2									1.0	4.1
SSW	.7	1.0	1.2	.6								3.5	7.0
SW	1.0	2.0	2.7	1.4								7.2	7.7
WSW	1.9	5.5	8.5	1.9								17.8	7.1
W	2.0	6.1	7.4	1.9								17.4	7.0
WNW	1.9	1.1	.4									3.3	3.4
NW	.6	.2										.8	3.0
NNW	.6	1.1										1.7	3.8
VARBL		.1	9.9	2.7								12.8	9.0
CALM												10.6	
	19.4	29.2	32.0	8.8								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATC WEATHER SERVICE/MAC

SURFACE WINDS

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

10140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUL
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.1	.5									3.9	3.6
NNE	1.2	1.9										3.1	3.8
NE	.7	2.7	.1									3.6	4.3
ENE	.7	1.2	.7									2.6	4.6
E	1.1	2.5	1.2									4.3	5.3
ESE	.1	.7	.4									1.2	5.6
SE	.4		.2									.6	4.8
SSE	.2	.2	.5									1.0	5.4
S	.8	.6	.4									1.8	4.5
SSW	.5	1.0	.7	1.4								3.6	8.7
SW	.2	2.2	2.5	1.3	.1							6.3	8.3
WSW	1.3	4.3	6.2	4.1	.1							16.0	8.5
W	2.2	4.8	7.5	3.8								18.3	7.8
WNW	1.6	3.0	1.0									5.5	5.1
NW	.7	.6	.2									1.6	4.2
NNW	1.1	1.4	.4									2.9	4.4
VARBL		.6	14.7	4.8								20.1	9.3
CALM												3.2	
	15.2	28.8	37.2	15.4	.2							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

JUL
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	2.2	3.7	.4									5.5	4.0
NNE	1.7	2.5	.1									4.3	4.1
NE	.8	2.2	.1									3.1	4.3
ENE	1.4	1.4	.5									3.3	4.4
E	1.0	.8	.7	.2								2.7	5.3
ESE	.4	1.1	.5									1.9	5.1
SE	.1	.2	.1									.5	4.5
SSE	.5	.5	.2									1.2	4.7
S	.5	1.1	.2	.1								1.9	4.8
SSW	.4	1.6	.7	.5								3.1	6.9
SW	.2	2.9	2.7	.6	.1							6.6	7.3
WSW	1.4	3.8	6.9	4.2	.1							16.5	8.4
W	1.0	5.0	7.8	4.5								18.3	8.3
WNW	1.1	2.5	1.3	.5								5.4	6.1
NW	.6	1.3	.8									2.7	5.0
NNW	1.1	1.4	.1									2.6	3.9
VARBL		.7	12.2	3.8	.4							17.1	9.5
CALM												3.2	
	14.2	32.0	35.5	14.5	.6							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

SURFACE WINDS

100140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

JUL
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.6	.4									4.3	3.6
NNE	2.9	1.2	.6									4.7	3.4
NE	1.9	2.7	.2	.1								5.0	4.3
ENE	1.2	2.5	.1									3.8	4.2
E	1.2	1.6	1.2									3.9	5.0
ESE	1.0	1.2	.1									2.3	4.2
SE	.2											.2	1.5
SSE	.6	.2		.1								1.0	4.0
S	1.1	.4	.2	.1								1.8	4.5
SSW	1.4	.7	.7	.4								3.2	5.2
SW	.8	2.7	2.6	.5								6.7	6.6
WSW	3.3	5.0	6.5	1.6								16.4	6.5
W	3.1	6.2	8.1	1.7	.2							19.4	6.8
WNW	1.4	2.4	.2	.1								4.2	4.5
NW	1.2	1.2										2.4	3.6
NNW	.6	1.1										1.7	4.0
VARBL			4.2	1.1								5.3	9.0
CALM												13.9	
	24.4	30.7	25.2	5.6	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140 STATION RAMSTEIN AB DL 73-81 YEARS MONTH JUL
2300-2300
HOURLY (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	.4											.4	2.3
NNE	1.6	.2										1.8	2.3
NE	.7	.2										1.0	3.0
ENE	1.4	.2										1.7	2.5
E	1.9	.6										2.5	2.4
ESE	.5	.1										.6	3.0
SE	.1											.1	2.0
SSE	.1	.1										.2	3.0
S	.2	.1										.4	3.3
SSW	.7	.5	.2	.1								1.6	4.6
SW	1.2	1.9	1.0	.6	.1							4.8	6.4
WSW	3.0	3.7	2.9	.7								10.3	5.6
W	4.4	5.6	2.4									12.4	4.4
WNW	1.7	.7	.1	.1								2.6	3.2
NW	.4	.4										.7	3.3
NNW	.2	.1	.1									.5	5.0
VARBL			.7	.1								.8	8.7
CALM												57.7	
	18.5	14.6	7.4	1.7	.1							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS MONTH JUL
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	1.2	.9	.2									2.2	3.6
NNE	1.3	1.0	.1									2.4	3.5
NE	.8	1.4	.1	.0								2.4	4.2
ENE	1.2	1.3	.2	.0								2.6	4.0
E	1.3	1.2	.5	.0								3.0	4.3
ESE	.5	.5	.1									1.2	4.0
SE	.2	.1	.0									.3	3.5
SSE	.2	.1	.1	.0								.5	4.6
S	.4	.3	.2	.0								1.0	4.7
SSW	.6	.7	.7	.4								2.4	6.6
SW	.7	2.0	2.3	.6	.0							5.8	7.1
WSW	2.4	4.2	5.3	1.9	.0							13.8	6.9
W	3.3	5.2	5.0	1.6	.0							15.1	6.4
WNW	1.5	1.3	.4	.1								3.4	4.2
NW	.5	.5	.1									1.1	4.0
NNW	.6	.6	.1									1.3	3.9
VARBL		.2	5.4	1.6	.1							7.2	9.3
CALM												34.3	
	16.6	21.6	20.9	6.4	.2							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 6694

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 8140 RAMSTEIN AB DL

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0000-0200

HOURE (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										.6	3.6
NNE	.2	.1										.4	2.7
NE	.6	.1	.1									.8	2.6
ENE	.5	.8	.4									1.7	4.4
E	1.6	.4	.1									2.3	2.6
ESE	.4	.1										.5	2.3
SE	.1											.1	2.0
SSE			.1									.1	8.0
S	.2	.1										.4	3.7
SSW	.1		.2									.4	7.0
SW	.8	1.0	.4	.2								2.4	5.3
WSW	2.2	2.3	1.0	.1								5.5	4.7
W	3.5	1.6	.1	.2								5.4	3.5
WNW	1.0	.1	.1									1.2	3.1
NW	.1											.1	3.0
NNW	.1	.1										.2	3.0
VARBL			.4									.4	8.3
CALM												77.9	
	11.7	6.9	2.9	.6								100.0	.9

TOTAL NUMBER OF OBSERVATIONS

837

USAFETAC

FORM
AA 94

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 0142 RAMSTEIN AB DL 73-81 AUG
STATION STATION NAME YEARS MONTH
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													
NNE	.5											.5	2.3
NE	.7		.2									1.0	3.8
ENE	1.0	.7	.1									1.8	3.4
E	2.2	.6										2.7	2.3
ESE	.2	.1										.4	2.3
SE	.2	.1										.4	3.0
SSE	.1											.1	2.3
S	.1											.1	2.0
SSW	.1	.2	.1									.5	5.3
SW	.7	1.1	.2	.5								2.5	5.9
WSW	1.6	2.6	1.0									5.1	4.8
W	2.9	1.3	.7	.2								5.1	4.0
WNW	.7	.6										1.3	3.2
NW			.1									.1	10.0
NNW	.4	.2										.6	3.4
VARBL			.1	.1								.2	11.0
CALM												77.5	
	11.4	7.6	2.6	.8								100.0	.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

17-140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

3637-3600
HOURS (L.S.T.)

CONDITION

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	.6	.2										.8	3.1
NNE	.5											.5	2.3
NE	1.1	.4										1.4	2.3
ENE	1.6	1.4	.5									3.5	3.8
E	4.1	1.0	.1									5.1	2.7
ESE	1.1	.1										1.2	2.1
SE	.1											.1	1.0
SSE													
S	.1											.1	1.0
SSW	.7	.5										1.2	3.1
SW	1.0	1.0	1.6	.4								3.8	6.2
WSW	1.9	2.5	2.3	.2								6.9	5.4
W	3.0	3.0	1.7	.6								8.2	5.1
WNW	1.0											1.0	1.8
NW	.2	.4										.6	3.4
NNW	.1											.1	1.7
VARBL			.6	.1								.7	8.5
CALM												64.6	
	17.0	10.4	6.7	1.3								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS

837

USAFETAC

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

16140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

AUG
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	.7	1.1										1.8	3.9
NNE	3.3	1.6										4.9	2.9
NE	2.0	2.7	.5									5.3	4.2
ENE	4.2	4.5	1.1	.5								10.3	4.4
E	1.6	3.1	1.8	.6	.1							7.2	6.1
ESE	1.0	.2	.1									1.3	3.3
SE	.2	.1										.4	2.3
SSE	.5	.1										.6	2.2
S	.5	.7	.1									1.3	4.0
SSW	.8	.4	.5									1.7	4.4
SW	1.0	2.2	2.3	.6								6.0	6.7
WSW	2.6	3.9	4.5	1.8								12.9	6.7
W	4.4	2.7	2.9	1.2								11.2	5.3
WNW	1.3	.8	.4									2.5	4.1
NW	.5	.4	.2									1.1	4.3
NNW	.7	.6	.1									1.4	3.8
VARBL			6.5	1.8	.1							8.4	9.2
CALM												21.9	
	25.3	25.2	20.9	6.5	.2							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 - 147
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

1200-1400

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.2	.1									3.1	3.3
NNE	2.7	2.3										5.0	3.4
NE	2.0	3.1	.5	.1								5.7	4.5
ENE	1.7	3.0	1.7	.1								6.5	5.2
E	1.4	2.6	.7	1.1								5.9	6.2
ESE	.7	.7	.4	.2								2.0	5.9
SE	.6	.5	.2									1.3	3.8
SSE	.5	.2	.4									1.1	4.7
S	.5	.6										1.1	3.8
SSW	1.1	1.8	1.1	.1								4.1	5.1
SW	1.1	3.1	2.0	1.3	.1							7.6	7.0
WSW	2.0	3.1	5.0	1.6	.1							12.4	7.2
W	4.3	4.7	3.6	1.9								14.5	6.0
WNW	1.7	2.3	.6	.1								4.7	4.4
NW	.7	.7	.1									1.6	3.6
NNW	1.1	1.0										2.0	3.2
VARBL		.2	10.9	4.8								15.9	9.7
CALM												5.6	
	23.9	31.7	27.2	11.4	.2							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 147 STATION RAMSTEIN AB DL 73-81 YEARS AUG NORTH
1500-1700 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	2.5	2.5	.1									5.1	3.4
NNE	2.4	2.5	.4									5.3	3.7
NE	2.0	2.6	.2	.2								5.1	4.2
ENE	1.2	3.3	1.3	.1								6.3	5.2
E	1.8	2.2	1.8	.7								6.5	6.3
ESE	1.1	.8	.2									2.2	3.9
SE	.2	.5	.1									.8	4.6
SSE	.1	.6										.7	3.7
S	1.0	.7	.1									1.8	3.5
SSW	1.4	1.9	.2									3.6	4.4
SW	1.4	4.2	2.9	.7	.1							9.3	6.3
WSW	2.2	4.3	3.3	2.0	.4							12.2	7.2
W	2.9	3.9	5.1	2.4	.1							14.5	6.9
WNW	1.3	1.4	.5	.1								3.3	4.7
NW	1.4	1.0	.1									2.5	3.4
NNW	.8	1.7										2.5	4.1
VARBL	.1	.2	9.6	2.7								12.7	9.2
CALM												6.0	
	23.9	34.4	26.0	9.1	.6							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1140 STATION NAME RAMSTEIN AB OL 73-81 YEARS AUG 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	1.2	.7										1.9	2.9
NNE	2.9	1.4	.2									4.5	3.2
NE	2.8	2.3	.1									5.1	3.3
ENE	3.0	3.3	.6									6.9	3.9
E	2.9	2.4	1.2	.4								6.8	4.5
ESE	1.3	.4	.2									1.9	3.3
SE	.7	.1	.1									1.0	3.4
SSE	.4	.1	.1									.6	3.8
S	1.3	.4										1.7	2.6
SSW	2.6	.5	.6									3.7	3.5
SW	1.8	1.3	1.1	.2								4.4	5.2
WSW	3.3	3.2	2.8	.5								9.8	5.5
W	2.9	4.3	3.6	.2								11.0	5.6
WNW	1.7	1.0	.4									3.0	3.6
NW	1.0											1.0	2.1
NNW	1.0	.2	.1									1.3	2.5
VARBL			1.4	.6								2.0	9.9
CALM												33.3	
	30.6	21.7	12.6	1.9								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS AUG MONTH
2100-2300 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	.6											.6	1.6
NNE	.4											.4	1.3
NE	.8	.5										1.3	2.7
ENE	2.2	.6	.2									3.0	2.7
E	1.3	.1										1.4	2.1
ESE	.2											.2	1.5
SE	.1	.1										.2	3.0
SSE	.2	.1										.4	3.7
S	.2	.2										.5	3.0
SSW	.8		.1									1.0	3.0
SW	1.0	.8	.6	.1								2.5	5.1
WSW	2.4	1.7	.5									4.5	3.8
W	3.7	1.1	.4	.2								5.4	3.5
WNW	1.0	.6										1.6	2.5
NW	.4	.1										.5	3.3
NNW	.1											.1	3.0
VARBL			.4	.1								.5	9.5
CALM												76.0	
	15.4	6.0	2.2	.5								100.0	.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATMOSPHERIC WEATHER SERVICE/MAC

SURFACE WINDS

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

143 STATION RAMSTEIN AB DL 73-81 YEARS AUG 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	1.7	.7	.2									1.7	3.3
NNE	1.6	1.3	.1									2.7	3.2
NE	1.5	1.5	.2	.0								3.2	3.9
ENE	1.9	2.2	.7	.1								4.9	4.3
E	2.1	1.5	.7	.3	.0							4.7	4.8
ESE	.7	.3	.1	.0								1.2	3.7
SE	.3	.2	.1									.5	3.5
SSE	.2	.1	.1									.4	3.8
S	.5	.3	.0									.9	3.3
SSW	1.7	.7	.4	.0								2.0	4.3
SW	1.1	1.8	1.4	.5	.0							4.8	6.2
WSW	2.3	3.0	2.5	.8	.1							8.7	6.1
W	3.4	2.8	2.3	.9	.0							9.4	5.4
WNW	1.2	.9	.2	.0								2.3	3.8
NW	.5	.3	.1									.9	3.5
NNW	.5	.5	.0									1.0	3.5
VARBL	.0	.1	3.7	1.3	.0							5.1	9.4
CALM												45.3	
	19.9	18.0	12.6	4.0	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 6695

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0140 STATION RAMSTEIN AB DL 73-81 YEARS SEP MONTH
ALL WEATHER CLASS 3000-0200 HOURS (L.S.T.)

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										1.1	1.9
NNE	.4	.2										.6	2.8
NE	.4											.4	2.3
ENE	1.2	.2										1.5	2.4
E	1.2	.2										1.5	2.3
ESE	.4	.5										.9	3.9
SE		.1										.1	4.0
SSE													
S	.2	.1										.4	3.3
SSW	.4	.7	.2									1.4	4.7
SW	.4	2.1	1.2	.6								4.3	6.7
WSW	2.5	4.1	2.1	1.5								10.1	6.2
W	1.9	1.9	1.9	.5								6.0	5.6
WNW	.5											.5	2.5
NW	.2											.2	2.5
NNW	.1		.1									.2	5.0
VARBL			.7	.6	.4							1.7	12.4
CALM												69.0	
	10.7	10.4	6.3	3.2	.4							100.0	1.7

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

10-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0330-0500
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													
NNE	.2											.2	2.5
NE	.5	.2										.7	3.3
ENE	1.0	.1										1.1	2.2
E	1.9	.6										2.5	2.7
ESE	.5											.5	1.8
SE	.1											.1	1.0
SSE													
S	.1	.1	.4									.6	6.4
SSW	.4	.4	.4	.1								1.2	5.8
SW	.7	1.4	1.5	.5								4.1	6.6
WSW	1.7	3.3	3.5	.7								9.3	6.6
W	3.7	2.2	1.6	.2								7.8	4.4
WNW	1.0	.2										1.2	2.0
NW	.2	.2										.5	3.0
NNW	.1											.1	1.0
VARBL			1.1	.7								1.9	9.9
CALM												68.1	
	12.2	8.9	8.4	2.3								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
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	.1	.1	.1									.4	4.7
NNE	.4	.1										.5	2.3
NE	.9	.2										1.1	2.7
ENE	1.7	.6										2.3	2.9
E	2.2	1.3										3.2	3.0
ESE	.5	.2										.7	3.0
SE													
SSE													
S	.2											.2	1.5
SSW	.7	.7	.4									1.9	4.5
SW	.4	1.6	1.5	.9								4.3	7.6
WSW	1.9	2.7	4.9	1.6	.1							11.2	7.3
W	2.3	2.6	1.6		.1							6.7	5.1
WNW	.9	.6										1.5	3.3
NW	.1											.1	3.0
NNW	.1											.1	1.0
VARBL			1.5	1.0	.1							2.6	10.6
CALM												63.1	
	12.5	10.6	10.0	3.5	.4							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
MONTH
1900-1100
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	.7	.4										1.1	3.0
NNE	1.2	1.9										3.1	3.8
NE	2.0	1.4	.1									3.5	3.5
ENE	2.5	3.2	.4									6.0	4.0
E	3.7	2.6	.7									7.0	3.7
ESE	.9	.4	.1	.1								1.5	3.9
SE	.1	.1										.2	4.0
SSE	.5	.1	.1									.7	3.2
S	.4	.7	.1									1.2	4.7
SSW	.1	.5	.9	.1								1.6	7.3
SW	1.0	2.3	2.6	1.9								7.8	7.9
WSW	2.2	3.8	5.9	3.5	.4							15.8	8.1
W	4.6	4.0	5.1	.9								14.4	5.6
WNW	1.5	.6	.6									2.7	4.3
NW	.1	.1										.2	3.0
NNW		.1	.1									.2	6.0
VARBL		.4	6.3	2.0	.1							8.8	9.6
CALM												24.0	
	21.5	22.6	23.1	8.4	.5							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

100140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.2	.1									2.2	4.0
NNE	1.9	.9										2.7	3.0
NE	.9	2.1	.4									3.3	4.9
ENE	2.8	3.1	1.0									6.9	4.3
E	1.4	1.9	1.1	.2								4.6	5.3
ESE	.7	.5	.6	.2								2.1	6.0
SE	.2		.1									.4	5.3
SSE	.5	.1	.4									1.0	4.9
S	1.1	1.0	.1									2.2	3.4
SSW	1.0	2.1	1.4	.1								4.6	5.7
SW	1.1	3.1	3.3	2.6	.2							10.4	8.3
WSW	2.2	3.8	5.4	4.4	.5	.1						16.6	8.6
W	2.5	4.7	7.4	1.5								16.1	7.1
WNW	1.1	1.6	.4	.2								3.3	4.4
NW	.2	1.0										1.2	4.3
NNW	.6	.6										1.2	3.5
VARBL		.4	11.1	4.3	.1							15.9	9.5
CALM												5.2	
	19.2	28.1	32.8	13.8	.9	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

SURFACE WINDS

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

10147
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
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	.6										1.9	2.9
NNE	1.5	2.0	.2									3.7	3.9
NE	1.6	2.1	.2									4.0	4.0
ENE	1.9	3.2	1.2									6.3	4.7
E	2.0	3.5	.7									6.2	4.5
ESE	.6	.9	.4	.2								2.1	5.6
SE	.9	.6	.2									1.7	4.1
SSE	.7	.2										1.0	2.9
S	1.1	1.0	.1									2.2	3.4
SSW	1.5	1.2	1.2	.2								4.2	5.8
SW	1.4	3.1	2.5	1.5								8.4	7.0
WSW	3.5	4.1	7.5	3.0	.6							18.7	7.6
W	3.1	4.7	7.7	2.2	.2							17.9	7.2
WNW	1.2	1.0	1.2									3.5	5.2
NW	.6	.4	.4									1.4	4.4
NNW	.5	.6										1.1	3.1
VARBL		.1	7.3	2.7								10.1	9.3
CALM												5.7	
	23.2	29.3	31.0	9.9	.9							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 6140 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS SEP MONTH 1800-2000 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	1.3	.4										1.4	2.9
NNE	.7	.4										1.1	2.6
NE	3.1	.9										4.0	2.4
ENE	3.3	1.0	.1									4.4	2.9
E	3.7	1.2	.2									5.2	3.0
ESE	1.1	.2	.1									1.5	2.9
SE	.2	.1										.4	3.3
SSE	.2	.1										.4	2.3
S	1.5	.7	.1									2.3	3.1
SSW	1.6	1.5	.5	.2								3.8	4.7
SW	2.3	2.1	2.7	.2								7.4	5.7
WSW	2.6	3.1	3.5	.9								10.0	5.8
W	3.1	3.2	3.2	.6								10.1	5.7
WNW	2.3	1.0	.4									3.7	3.1
NW	.7	.1										.9	2.6
NNW	.4											.4	1.7
VARBL			1.9	.6	.1							2.6	9.6
CALM												43.5	
	28.0	16.0	12.7	2.6	.1							100.2	2.7

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

176140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
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	.4											.4	2.0
NNE	.7	.1										.9	2.9
NE	1.1											1.1	2.0
ENE	1.2	.5										1.7	2.9
E	1.6	.1										1.7	2.4
ESE	.7											.7	1.5
SE	.5	.1										.6	2.4
SSE	.2											.2	2.0
S	.4	.5	.1									1.0	3.6
SSW	.4	1.2	.1	.1								1.9	4.9
SW	.6	1.9	1.4	1.0	.2							5.1	7.8
WSW	1.9	2.3	3.3	.9								9.4	6.4
W	3.2	1.7	1.4	.9								7.2	5.2
WNW	1.2	.1	.2									1.6	3.2
NW	.1											.1	2.0
NNW		.1										.1	4.0
VARBL			1.0	.7								1.7	10.7
CALM												65.6	
	14.3	8.8	7.5	3.6	.2							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

106140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

SEP
MONTH

ALL WEATHER
CLASS

ALL
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	.7	.4	.0									1.2	3.1
NNE	.9	.7	.0									1.6	3.4
NE	1.3	.9	.1									2.3	3.5
ENE	2.0	1.5	.3									3.8	3.8
E	2.2	1.4	.4	.0								4.0	3.7
ESE	.7	.3	.2	.1								1.3	4.2
SE	.3	.1	.0	.0								.4	3.7
SSE	.3	.1	.1									.4	3.4
S	.6	.5	.1									1.3	3.7
SSW	.8	1.0	.6	.1								2.6	5.4
SW	1.3	2.2	2.1	1.1	.1							6.5	7.3
WSW	2.3	3.4	4.5	2.1	.2	.0						12.5	7.3
W	3.0	3.1	3.7	.8	.0							10.8	6.7
WNW	1.2	.6	.4	.0								2.3	3.9
NW	.3	.2	.0									.6	3.6
NNW	.2	.2	.0									.4	3.3
VARBL		.1	3.9	1.6	.1							5.7	9.7
CALM												42.6	
	17.7	16.8	16.5	5.9	.4	.0						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 6477

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 147
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

OCT
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	.2											.2	2.0
NNE	.4	.4										.2	3.2
NE	1.1	.7										1.8	2.7
ENE	2.2	1.8	.6									4.5	4.1
E	1.8	.8	.5	.1								3.2	4.2
ESE	.7	.4										1.1	3.3
SE	.4											.4	2.7
SSE	.1											.1	3.0
S	.4	.2										.6	3.6
SSW	.8	.7	.2	.5								2.3	6.0
SW	.2	.7	1.4	.6								3.0	8.3
WSW	1.3	3.5	4.1	1.1	.2							10.2	7.2
W	4.1	3.0	3.1	.6	.1							10.9	5.5
WNW	1.4	.4										1.8	2.3
NW	.5											.5	1.8
NNW	.2	.1										.4	3.0
VARBL		.1	1.4	.8								2.4	9.7
CALM												56.0	
	15.8	12.8	11.4	3.7	.4							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 5140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0330-0500
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	.2										.4	4.3
NNE	1.0	.1										1.1	2.3
NE	.7	.7										1.4	3.1
ENE	2.7	1.8	.5									5.1	3.5
E	3.5	.7	.1									4.3	2.8
ESE	.2	.1										.4	4.7
SE	.6											.6	2.0
SSE	.1	.1	.1									.4	5.7
S		.1	.1									.2	6.5
SSW	.5	.4	.4	.1								1.3	5.8
SW	1.0	.7	1.3	1.1								4.1	7.7
WSW	1.6	3.3	4.3	1.4								10.6	7.7
W	3.8	3.2	2.0	1.2								10.3	5.6
WNW	1.0	.1										1.1	2.4
NW	.6											.6	1.8
NNW	.2											.2	2.7
VARBL			1.8	.6	.1							2.5	10.1
CALM												55.6	
	17.6	11.7	10.6	4.4	.1							100.0	2.4

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1.14
STATION

PAMSTEIN AB DL

STATION NAME

73-81

YEARS

OCT

MONTH

3633-7800

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	.4	.2										.5	2.2
NNE	1.1	.1										1.2	1.9
NE	2.7	.8										2.9	2.6
ENE	1.7	1.9	.5									4.1	4.7
E	3.5	1.7	.1									5.3	2.9
ESE	1.3	.2										1.6	2.2
SE	.5											.5	2.0
SSE	.4											.4	1.7
S	.2	.2										.5	4.0
SSW	.4	.6	.5									1.4	5.4
SW	1.1	1.3	1.2	1.1								4.7	7.1
WSW	1.2	2.5	4.2	1.7	.1							9.7	8.0
W	3.9	2.4	2.6	1.2								10.2	5.6
WNW	1.7	.5	.2									1.7	3.4
NW	.5											.5	1.8
NNW	.1											.1	2.0
VARBL			2.3	1.0	.1							3.3	10.2
CALM												51.6	
	19.1	12.5	11.6	4.9	.2							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 RAMSTEIN AB DL

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.2										.8	3.3
NNE	2.0		.1									2.2	1.9
NE	2.6	1.8										4.4	3.1
ENE	3.0	3.2	1.2									7.4	4.2
E	3.0	3.3	.8									7.2	4.0
ESE	1.3	.4	.1									1.8	2.7
SE	.2											.2	2.0
SSE	.5											.5	2.0
S	.4	.6	.1									1.1	4.4
SSW	.6	1.2	1.0	.2								3.0	6.1
SW	.8	1.9	1.1	.8	.1							4.8	7.2
WSW	1.9	2.9	4.3	1.9	.2							11.2	7.6
W	4.8	5.1	3.9	1.4	.4	.4						15.7	6.5
WNW	1.9	.6	.4		.1							3.0	4.1
NW	.4	.6										1.0	3.9
NNW	.5	.1										.6	2.4
VARBL			4.8	2.0	.5							7.3	10.5
CALM												28.0	
	24.1	22.0	17.8	6.5	1.3	.4						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 - 14 STATION RAMSTEIN AB DL 73-81 OCT
STATION NAME YEARS MONTH
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	2.0	1.0										3.0	2.6
NNE	1.6	1.3										2.9	3.3
NE	2.5	3.0	.1									5.6	3.7
ENE	3.9	2.2	1.7									7.8	4.2
E	2.3	2.2	2.3	.5								7.2	6.0
ESE	.5	.5	.1									1.1	3.9
SE	.1	.2										.4	4.3
SSE	.2											.7	2.5
S	.7	.8	.1									1.7	4.0
SSW	1.3	1.6	.8	.1								3.8	5.1
SW	1.2	2.0	2.9	1.7	.1							7.9	7.7
WSW	1.1	3.0	3.8	3.3	.2	.1						11.6	8.5
W	3.3	5.5	5.0	2.5	.6	.1						17.1	7.3
WNW	1.7	2.0	.1									3.8	3.7
NW	.8	.7	.2									1.8	3.9
NNW	.7	.2	.1									1.1	3.2
VARBL		.1	5.3	2.5	1.1	.1						9.1	10.8
CALM												14.1	
	24.0	26.3	22.6	10.6	2.0	.4						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 STATION NAME RAMSTEIN AB DL 73-81 YEARS OCT MONTH
1500-1700 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	1.4	.5										1.9	2.5
NNE	2.5	1.2										3.7	2.8
NE	3.2	4.3	.2									7.8	3.9
ENE	2.2	3.7	1.1	.1								7.0	4.7
E	1.2	4.1	1.7									6.9	5.3
ESE	.4	.1	.1									.6	3.8
SE	.5	.2										.7	3.0
SSE	.6	.8	.1									1.6	3.8
S	.6	.8	.1									1.6	3.6
SSW	1.3	1.7	.6									3.6	4.6
SW	1.7	2.5	3.5	1.7	.4							9.7	7.7
WSW	3.6	3.3	6.0	1.9	.2							15.1	7.0
W	3.1	3.5	3.5	3.1	.1	.1						13.4	7.3
WNW	1.1	1.0	.1									2.2	3.6
NW	.8	.4	.1									1.3	3.1
NNW	.8											.8	2.1
VARBL			5.1	.8								6.0	9.0
CALM												16.2	
	25.0	28.1	22.2	7.6	.7	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

OCT
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	N	MEAN WIND SPEED
N	.2	.2										.5	3.3
NNE	.8	.1										1.0	2.4
NE	2.9	1.0										3.0	2.6
ENE	3.9	1.8	.4									6.1	3.3
E	3.0	1.7	.6									5.3	3.8
ESE	1.7	.2										1.9	2.3
SE	.2											.2	1.0
SSE	.1											.1	2.0
S	1.7	.4										1.3	2.7
SSW	.7	1.4	.5	.4								5.3	5.7
SW	1.1	2.4	1.3	.5								10.6	6.9
WSW	1.3	4.3	4.1	1.0								9.9	5.4
W	3.2	3.6	2.3	.8								1.6	2.1
WNW	1.4	.1										.6	1.8
NW	.6											.2	2.5
NNW	.2											1.6	10.2
VARBL			1.0	.5		.1						47.1	
CALM													
	22.5	17.2	10.0	3.1		.1						120.2	2.6

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 147 STATION RAMSTEIN AB DL 73-81 YEARS OCT 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 - 53	≥ 56	%	MEAN WIND SPEED
N	.5	.1										.6	2.4
NNE	.4	.1										.5	2.0
NE	1.6	.8										2.4	3.1
ENE	2.4	2.2	.2									4.8	3.6
E	1.2	1.2	.5									2.9	4.3
ESE	.8											.8	2.3
SE	.1											.1	2.0
SSE	.4											.4	2.3
S	.1	.4										.5	4.5
SSW	.1	.8	.5									1.4	6.1
SW	.6	1.1	2.0	.5	.2							4.4	7.8
WSW	1.4	3.5	3.7	.5	.2							9.3	6.8
W	4.4	3.1	3.0	.6								11.1	5.3
WNW	2.3	.5										2.7	2.5
NW	.2											.2	1.5
NNW													
VARBL			1.0	.4								1.3	9.0
CALM												56.5	
	16.5	13.7	10.9	1.9	.5							100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 14" STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH OCT
STATION NAME 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	.7	.3										1.0	2.8
NNE	1.2	.4	.0									1.6	2.6
NE	2.1	1.6	.0									3.3	3.3
ENE	2.7	2.3	.8	.0								5.8	4.0
E	2.4	2.0	.8	.1								5.3	4.3
ESE	.9	.2	.0									1.2	2.8
SE	.3	.1										.4	2.5
SSE	.3	.1	.0									.4	3.2
S	.4	.4	.1									.9	3.8
SSW	.7	1.0	.6	.2								2.5	5.5
SW	1.0	1.6	1.8	1.0	.1							5.5	7.4
WSW	1.7	3.3	4.3	1.6	.2	.0						11.0	7.4
W	3.8	3.7	3.2	1.4	.1	.1						12.3	6.2
WNW	1.5	.6	.1		.0							2.2	3.2
NW	.6	.2	.0									.8	2.9
NNW	.4	.1	.0									.4	2.6
VARBL		.0	2.8	1.1	.2	.0						4.2	10.1
CALM												40.6	
	20.6	18.0	14.6	5.3	.7	.1						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 6695

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 - 14 STATION NAME RAMSTEIN AB DL 73-81 YEARS NOV 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	.4	.1										.5	2.8
NNE	.5	.6										1.1	3.7
NE	.7	.9	.1									1.7	3.9
ENE	3.1	.7	.5									4.3	3.1
E	1.4	.7										2.1	3.2
ESE	.1	.1										.2	4.5
SE	.4	.1										.5	2.8
SSE	.4											.4	1.3
S	.1	.1	.1									.4	5.0
SSW	.2	1.1	.7	.4								2.5	7.0
SW	.5	2.7	2.6	1.9	.4	.2						7.5	9.2
WSW	2.5	4.6	5.9	4.0	1.2	.1						18.3	8.6
W	2.6	4.9	4.0	2.6			.2					14.3	7.3
WNW	1.5	.1										1.6	2.3
NW	.6	.4										1.0	2.9
NNW	.2											.2	2.0
VARBL			2.8	1.7	.7	.4	.1					5.8	12.7
CALM												37.5	
	15.2	16.5	16.8	10.5	2.3	.7	.4					100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 812

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

10-140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

0300-0500

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.1										.7	2.7
NNE	.6	.6										1.2	3.4
NE	.6	.2	.2									1.1	3.9
ENE	1.9	.9	.7	.4								3.8	4.7
E	1.9	.6	.2									2.7	3.3
ESE	.4	.1										.5	2.5
SE	.1											.1	2.0
SSE		.1										.1	5.0
S		.5	.1	.1								.7	7.3
SSW	.4	1.0	.6	.7								2.7	7.8
SW	1.4	2.1	2.5	.5	.4	.2						7.0	7.8
WSW	2.3	4.8	4.8	3.6	.9	.1						16.5	8.5
W	4.0	5.4	3.6	3.0	.6	.1	.1					16.8	7.4
WNW	1.6	.1										1.7	2.1
NW	.4	.2										.6	3.4
NNW													
VARBL			2.7	1.4	.5							4.6	11.3
CALM												38.9	
	16.0	16.9	15.6	9.6	2.3	.5	.1					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

10-140 STATION RAMSTEIN AB DL 73-81 YEARS NOV MONTH
ALL WEATHER CLASS 3600-0800 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											.9	1.9
NNE	.7	.5										1.2	3.2
NE	1.4	1.3	.5									2.8	4.1
ENE	1.1	1.4	.9	.1								3.5	5.2
E	1.4		.6									2.0	3.9
ESE	.5	.1										.6	2.6
SE	.2		.1									.4	4.0
SSE	.4	.2										.6	3.6
S	.2	.6	.1	.1								1.1	5.0
SSW	.6	.5	1.1	1.0	.1							3.3	8.7
SW	.5	2.2	3.1	1.1	.1	.2						7.3	8.2
WSW	1.6	5.7	7.7	2.5	1.2							18.6	8.3
W	4.1	4.2	3.1	2.2	.2	.5						14.3	7.1
WNW	.7	.9	.1	.1								1.9	4.4
NW	.2	.1										.4	2.3
NNW	.4	.1										.5	2.5
VARBL			2.8	1.5	.4							4.7	11.3
CALM												35.9	
	14.9	17.5	20.1	8.6	2.1	.7						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

13-140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

NGV
MONTH

ALL WEATHER
CLASS

1900-1100
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	1.7	.2										1.2	2.4
NNE	1.7	.6										2.3	2.6
NE	1.7	1.1										2.1	3.7
ENE	1.7	2.0	1.2	.1								5.1	5.0
E	1.6	.6	.4									2.6	3.5
ESE	.9											.9	2.0
SE	.2											.2	2.0
SSE	.2	.2										.5	3.0
S	.7	.2	.1	.1								1.2	4.4
SSW	1.1	1.1	1.9	.9								4.9	7.1
SW	1.2	2.7	4.6	1.2	.4	.1						10.2	8.0
WSW	2.1	5.3	8.4	3.3	1.4	.6						21.1	8.9
W	2.7	4.9	4.1	2.0	.2	.1						14.1	7.1
WNW	.9	.2	.2									1.4	3.5
NW	.1	.1										.2	3.5
NNW	.4											.4	1.7
VARBL			4.8	2.3	.4	.4						7.9	10.9
CALM												23.6	
	17.7	19.5	25.7	10.0	2.3	1.2						100.3	5.6

TOTAL NUMBER OF OBSERVATIONS 812

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFC WEATHER SERVICE/MAC

SURFACE WINDS

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

17-140 STATION NAME 73-81 YEARS NOV
1200-1400
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	1.5	.5										2.2	3.0
NNE	3.6	1.5	.1									5.2	3.0
NE	1.1	1.7	.2									3.1	4.2
ENE	1.2	1.9	.7	.4								4.2	5.4
E	1.0	1.1	.9									3.3	4.8
ESE	.2	.2	.1									.5	4.0
SE	.5	.1	.2									.9	4.1
SSE	.6	.1										.7	2.3
S	.5	.7	.5									1.7	4.7
SSW	.7	1.4	2.2	1.7								6.3	8.0
SW	1.0	3.8	4.0	2.2	.1							11.1	8.7
WSW	1.3	4.1	9.1	4.6	1.2	.1	.1					20.2	9.5
W	1.2	4.2	6.4	3.5	.7	.1						16.2	8.7
WNW	.9	1.1	.4									2.3	3.9
NW	.1	.4										.5	4.0
NNW	.1	.9	.1									1.1	4.8
VARBL			6.3	2.8	.6							9.8	10.6
CALM												11.4	
	15.3	23.7	31.4	15.2	2.7	.2	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

140 STATION NAME: FARMSTEIN AB DL YEARS: 73-81 MONTH: NOV
1507-1700 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	.5										2.6	2.9
NNE	1.5	.6	.1									2.2	3.0
NE	2.7	2.8	.1									5.7	3.6
ENE	2.1	2.7	.7	.2								5.1	4.7
E	1.0	1.0	1.5									3.5	5.5
ESE	.6	.1	.1									.9	3.6
SE	.1											.1	1.7
SSE	.1	.2										.4	3.7
S	.6	.4	.7									1.7	5.9
SSW	1.2	1.5	.7	1.0								4.4	6.7
SW	1.6	4.2	4.3	1.6	.1							11.9	7.2
WSW	1.7	6.5	8.0	3.5	.5	.1						20.4	8.0
W	2.5	4.7	4.0	3.6	.9							15.6	7.9
WNW	.7	1.2	.4									2.3	4.7
NW	.6	.1										.7	2.7
NNW	.1	.1										.2	4.5
VARBL	.1	.1	4.6	2.0	.6	.1						7.5	10.5
CALM												14.8	
	19.5	26.2	25.3	11.9	2.1	.2						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10 140
STATION

FAMSTEIN AB DL
STATION NAME

73-81
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1870-2000
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	1.2	.4										1.0	2.4
NNE	1.1	.6										1.6	2.9
NE	1.4	.9	.1									2.3	3.3
ENE	2.6	.7	.5	.4								4.2	4.4
E	1.3	1.2										2.2	3.7
ESE	.7	.1										.9	2.6
SE	.4	.2										.0	3.0
SSE	.2	.1										.4	3.3
S	.9	.4	.2									1.5	3.5
SSW	.6	.7	.5		.2							2.0	7.9
SW	1.1	2.5	3.0	1.6	.1	.2						8.5	6.2
WSW	3.1	5.4	7.3	3.7	.9	.1						20.5	8.0
W	2.8	4.7	2.6	1.1	.2							11.5	6.1
WNW	1.5	.5	.1	.1								2.2	3.3
NW	.1	.1	.1									.4	6.0
NNW	.2	.5										.7	4.0
VARBL		.4	3.7	1.9	.5	.4						6.6	11.2
CALM												31.5	
	18.9	19.4	18.1	9.3	2.0	.7						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SERVICE/MAC

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

SURFACE WINDS

10-140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

YEARS

NOV
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	.6										1.0	3.5
NNE	.3	.5										1.4	2.9
NE	1.9	.9										2.7	2.7
ENE	2.3	1.4	.2	.2								4.2	3.9
E	1.4	1.1	.5	.1								3.7	4.4
ESE	.1	.1										.2	2.5
SE	.5	.1										.5	2.6
SSE	.1	.2										.4	4.2
S	.4	.1	.1	.1								.7	5.3
SSW	.2	.9	1.3	.6	.2							3.9	9.3
SW	.4	1.6	3.1	1.2	.4	.4						7.0	9.3
WSW	2.2	4.9	6.4	3.3	1.0							17.5	8.1
W	3.3	3.8	4.8	1.6	.9	.1						14.6	7.1
WNW	1.5	.9	.1									2.5	3.2
NW	.2		.1									.4	3.7
NNW		.7										.2	4.5
VARBL	.1	.1	3.1	2.3	.2	.4						8.3	11.4
CALM												33.9	
	15.9	17.4	19.5	9.6	2.7	.9						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

609

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 140 STATION NAME RAMSTEIN AB DL YEARS 73-81 NOV NORTH
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	1.2	.3										1.3	2.7
NNE	1.3	.7	.0									2.0	3.0
NE	1.3	1.2	.2									2.7	3.6
ENE	2.0	1.4	.7	.2								4.3	4.5
E	1.3	.8	.5	.0								2.6	4.1
ESE	.4	.1	.0									.5	2.9
SE	.3	.1	.0									.4	3.1
SSE	.3	.2										.4	3.1
S	.4	.4	.3	.1								1.1	5.2
SSW	.6	1.0	1.1	.8	.1							3.7	7.7
SW	1.0	2.6	3.4	1.4	.2	.2						3.8	6.1
WSW	2.1	5.2	7.2	3.5	1.0	.2	.0					19.2	8.5
W	2.9	4.6	4.1	2.4	.5	.1	.0					14.7	7.4
WNW	1.2	.6	.2	.0								2.0	3.5
NW	.3	.2	.0									.5	3.3
NNW	.2	.2	.0									.4	3.7
VARBL	.0	.1	3.9	2.0	.5	.2	.0					6.7	11.2
CALM												28.4	
	16.7	19.7	21.6	10.6	2.3	.7	.1					120.0	5.2

TOTAL NUMBER OF OBSERVATIONS 6479

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATMOSPHERIC WEATHER SERVICE/MAC

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

SURFACE WINDS

1 1. STATION NAME: RAMSTEIN AB DL YEARS: 73-81 MONTH: DEC
STATION MONTH
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.1										.5	2.0
NNE	.5	.4										.8	3.4
NE	1.2	.7	.1									2.9	3.2
ENE	1.2	2.5	1.3									5.0	5.1
E	1.6	1.4	1.2									4.2	4.6
ESE	.7	.1										.8	2.4
SE	.5											.5	2.8
SSE		.1	.1									.2	6.0
S		.2	.2		.2							.7	11.5
SSW	.2	1.1	1.1	.7	.4							3.5	9.3
SW	.7	1.8	1.9	2.3	.6	.2						7.5	9.9
WSW	2.2	3.1	7.7	4.8	.2	.4						18.3	8.9
W	2.3	4.1	3.9	3.2	.5							14.0	7.8
WNW	.7	.2	.5									1.4	4.7
NW	.5	.1										.6	2.8
NNW		.1										.1	5.0
VARBL			1.3	1.2	.7							3.2	12.6
CALM												35.8	
	13.3	16.1	19.4	12.2	2.6	.6						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 147 STATION NAME RAMSTEIN AB DL 73-81 YEARS DEC
STATION NORTH
ALL WEATHER CLASS 0300-0500
CONDITION 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	.5	.4	.1									1.1	3.6
NNE	.2	.5										.7	3.5
NE	.7	1.1	.1									1.9	4.0
ENE	1.6	2.8	1.6	.2								6.1	5.1
E	2.3	1.3	.2									4.3	3.9
ESE	.6	.4										1.0	3.7
SE	.4	.1										.5	3.2
SSE	.2											.2	2.5
S	.2	.2										.5	3.5
SSW	.5	.5	.8	.6	.2							2.6	9.1
SW	.5	1.9	3.0	1.6	.4	.2						7.5	9.2
WSW	2.3	4.1	6.1	3.9	.8	.5						17.7	8.9
W	1.8	3.6	5.9	3.1	.4	.1						14.8	8.2
WNW	1.0	1.7	.1									2.0	3.5
NW	.2	.4										.6	3.8
NNW	.2	.5										.7	4.2
VARBL			2.5	1.4	1.3	.2						5.5	13.2
CALM												32.2	
	13.3	19.0	20.5	10.9	3.1	1.1						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1-14° STATION NAME RAMSTEIN AB DL 73-81 YEARS MONTH DEC
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	1.1		.1									1.2	2.8
NNE	.5	.2										.7	2.5
NE	1.1	1.7	.5									2.5	4.1
ENE	2.7	3.9	.8									7.5	4.2
E	1.3	2.6	.2									4.7	3.9
ESE	.2	.2										.5	3.5
SE	.2											.2	2.0
SSE	.1	.1										.2	3.5
S		.1	.4	.1								.6	8.2
SSW	.1	.8	1.1	.7	.1							2.9	9.1
SW	.6	2.3	3.1	1.4	.7	.1	.1					6.4	9.4
WSW	.8	4.1	7.5	3.8	1.0	.1						17.3	9.2
W	2.7	3.7	3.8	3.3	.7	.2						14.6	8.1
WNW	.7	.4	.1									1.2	3.6
NW	.4	.2										.6	3.4
NNW	.4	.2	.1									.7	4.2
VARBL			1.9	2.3	1.3	.2						5.7	13.9
CALM												30.5	
	13.5	20.0	19.7	11.7	3.8	.7	.1					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
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	.0	.2										1.1	3.0
NNE	.5	.5	.1									1.1	3.0
NE	1.4	1.6	.2									3.2	3.7
ENE	1.7	3.1	1.7	.1								6.6	5.2
E	2.3	1.9	1.6	.2								6.0	4.9
ESE	.7	.1										.5	2.1
SE	.1	.2	.1									.5	1.3
SSE	.2											.2	1.5
S	.4		.6									1.0	6.6
SSW	.2	.6	.7	.6	.1							2.3	6.8
SW	1.4	2.4	3.0	2.6	.6		.5					17.5	9.6
WSW	2.4	5.6	7.0	5.3	1.2	.4	.1					22.0	9.1
W	2.3	3.6	4.2	3.0	.2	.1						13.4	7.8
WNW	.1	.2										.4	3.7
NW	.4											.4	2.3
NNW	.2	.1										.4	3.0
VARBL		.1	3.0	2.6	.6	.1						6.5	11.5
CALM												23.9	
	15.2	20.3	22.2	14.5	2.7	.6	.6					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

10140 STATION NAME RAMSTEIN AB DL YEARS 73-81 MONTH DEC
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.2										1.1	3.0
NNE	.5	.5	.1									1.1	3.9
NE	1.4	1.6	.2									3.2	3.7
ENE	1.7	3.1	1.7	.1								6.6	5.2
E	2.3	1.9	1.6	.2								6.0	4.9
ESE	.7	.1										.8	2.1
SE	.1	.2	.1									.5	5.3
SSE	.2											.2	1.5
S	.4		.6									1.0	6.6
SSW	.2	.6	.7	.6	.1							2.3	8.8
SW	1.4	2.4	3.0	2.6	.6		.5					10.5	9.6
WSW	2.4	5.6	7.0	5.3	1.2	.4	.1					22.0	9.1
W	2.3	3.6	4.2	3.0	.2	.1						13.4	7.8
WNW	.1	.2										.4	3.7
NW	.4											.4	2.3
NNW	.2	.1										.4	3.0
VARBL		.1	3.0	2.6	.6	.1						6.5	11.5
CALM												23.9	
	15.2	20.3	22.2	14.5	2.7	.6	.6					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0140 STATION RAMSTEIN AB DL 73-81 YEARS DEC NORTH
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	.5	1.7	.1									1.6	3.8
NNE	1.1	.6										1.7	3.1
NE	1.9	1.7	.1									3.7	3.4
ENE	1.7	4.1	2.2	.1								8.1	5.4
E	1.4	1.4	2.0	.7								5.6	6.4
ESE		.2										.2	4.5
SE	.5			.1								.6	3.6
SSE	.1											.1	1.0
S	.5	.6	.5	.4								1.9	6.5
SSW	.2	.8	.6	1.3	.1							3.1	9.8
SW	1.2	1.8	3.6	2.7	.1		.1					9.6	8.6
WSW	1.2	3.3	8.6	6.6	1.6	.2	.1					21.6	10.2
W	2.2	4.3	4.9	4.3	.4							16.0	8.3
WNW	.7	.2										1.0	3.0
NW	.2	.2										.5	3.8
NNW	.6	.2										.8	3.3
VARBL			4.4	2.0	1.2	.4						9.0	12.3
CALM												16.0	
	14.0	20.5	27.0	18.3	3.3	.6	.2					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 0140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

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	.3	.6										1.4	3.2
NNE	1.6		.1									2.3	3.1
NE	2.2	2.0	.4									4.5	3.8
ENE	3.0	4.8	2.0									9.8	4.8
E	1.2	2.5	1.0									4.7	4.8
ESE	.5	.2										.7	3.3
SE													
SSE													
S	.4	.2	.1	.6								1.3	8.7
SSW	1.4	1.4	.6	1.3	.1							4.9	7.1
SW	1.4	2.3	3.3	2.2	.6	.1						9.9	8.7
WSW	1.4	5.6	6.6	5.7	.6	.2						20.2	9.1
W	2.3	2.5	4.9	2.5	1.0	.1						13.3	8.6
WNW	1.3		.1	.1								1.6	3.2
NW	.4	.6										1.0	3.6
NNW	.2	.1	.1									.5	3.8
VARBL			2.5	1.9	.6	.4	.1					5.5	12.2
CALM												18.5	
	18.0	23.5	21.7	18.3	2.9	.8	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 2140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

DEC
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.1										.6	2.2
NNE	1.0	.8										1.8	3.4
NE	1.6	1.6	.2									3.3	3.7
ENE	3.0	2.5	1.3									6.8	4.3
E	2.2	2.2	.6									4.9	3.9
ESE	.5	.1		.1								.7	3.8
SE	.1	.1										.2	3.0
SSE	.1			.1								.2	7.5
S	.1	.1	.1	.2	.1							.7	11.2
SSW	.7	.7	1.1	1.2								3.7	8.5
SW	1.1	1.4	2.2	1.7								6.3	7.9
WSW	1.7	3.3	7.6	4.8	1.1	.1						18.6	9.1
W	3.0	3.1	2.9	2.9	.8							12.7	7.9
WNW	.6	.2	.2									1.1	3.7
NW	.2	.1										.4	3.0
NNW		.2										.2	4.5
VARBL	.1	.1	3.7	2.3	.2	.2						6.7	11.0
CALM												30.9	
	16.4	16.8	20.0	13.3	2.3	.4						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

176140 STATION RAMSTEIN AB DL STATION NAME 73-81 YEARS DEC NORTH
ALL WEATHER CLASS 2100-2300 HOURS (L S T)

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	1.3
NNE	.4	.6										1.2	3.5
NE	.8	1.0	.2									2.0	4.2
ENE	1.2	3.1	1.0	.1								5.4	5.6
E	2.5	1.4	.7									4.7	3.7
ESE	.7	.5	.1									1.3	3.5
SE	.1	.1										.2	2.5
SSE	.2											.2	2.5
S	.2	.1	.2	.5	.4	.1						1.6	12.5
SSW	.1	1.7	.8		.2							2.2	8.6
SW	1.1	1.6	1.8	1.8	.4							6.6	8.5
WSW	1.2	4.7	7.0	5.5	1.0							19.4	9.2
W	1.8	2.7	3.2	3.0	.5							11.2	6.4
WNW	1.0	.6	.1	.1								1.8	3.8
NW		.2										.2	4.5
NNW	.2	.2	.1									.6	4.4
VARBL			2.6	2.2	.7							5.5	12.1
CALM												35.7	
	12.1	17.8	18.0	13.1	3.1	.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 6140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEARS

DEC
MONTH

ALL WEATHER
CLASS

ALL
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	.6	.3	.0									1.0	3.0
NNE	.7	.5	.0									1.3	3.3
NE	1.4	1.3	.2									3.0	3.7
ENE	2.0	3.3	1.5	.1								6.9	4.9
E	1.9	1.9	.9	.1								4.9	4.6
ESE	.5	.2	.0	.0								.8	3.2
SE	.2	.1	.0	.0								.3	3.4
SSE	.1	.0	.0	.0								.2	3.7
S	.2	.2	.3	.2	.1	.0						1.0	8.8
SSW	.4	.9	.9	.8	.2	.0						3.1	8.7
SW	1.0	1.9	2.7	2.0	.4	.1	.1					8.3	9.0
WSW	1.6	4.2	7.3	5.0	.9	.2	.0					19.4	9.2
W	2.3	3.5	4.2	3.2	.6	.1						13.7	8.2
WNW	.8	.4	.1	.0								1.3	3.7
NW	.3	.2										.5	3.4
NNW	.2	.2	.0									.5	3.9
VARBL	.0	.0	2.7	2.0	.8	.2	.0					5.8	12.3
CALM												27.9	
	14.5	19.3	21.1	13.5	3.0	.6	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

6694

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 6140 RAMSTEIN AB DL 73-81
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
ALL
MONTH
ALL
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	.9	.7	.1	.0								1.7	3.5
NNE	1.3	1.0	.1	.0								2.3	3.4
NE	1.6	1.8	.3	.0								3.3	4.0
ENE	2.0	2.5	1.2	.2	.0							5.8	4.9
E	1.8	1.4	.7	.2	.0							4.2	4.4
ESE	.6	.3	.1	.0	.0							1.0	3.7
SE	.2	.1	.0	.0								.4	3.2
SSE	.2	.1	.1	.0	.0							.4	3.9
S	.4	.4	.2	.0	.0	.0						1.1	4.7
SSW	.7	.9	.7	.3	.0	.0						2.6	6.2
SW	.9	1.9	2.3	1.2	.2	.1	.0					6.5	8.0
WSW	1.8	3.5	4.9	2.7	.4	.1	.0					13.4	8.1
W	2.8	3.6	3.6	1.7	.2	.0	.0					12.0	6.9
WNW	1.0	.7	.3	.1	.0							2.1	4.1
NW	.4	.3	.1	.0	.0	.0						.7	3.8
NNW	.4	.3	.0	.0								.8	3.7
VARBL	.7	.1	4.6	1.7	.2	.1	.0					6.8	10.0
CALM												34.	
	17.1	19.7	19.1	8.2	1.2	.2	.0					100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 78862

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

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

SURFACE WINDS

10140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
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 (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	.6	.3	.0									1.0	2.9
NNE	1.1	.6	.0									1.7	3.1
NE	2.1	1.8	.2									4.1	3.6
ENE	3.3	3.2	1.1	.2	.0							7.8	4.4
E	2.0	1.6	.5	.1								4.2	4.1
ESE	.5	.2	.0									.7	2.7
SE	.2	.1	.0	.0								.3	3.3
SSE	.2	.0	.0	.0								.3	3.4
S	.2	.1	.1	.0	.0	.0						.5	6.9
SSW	.5	.5	.4	.3	.1							1.8	7.3
SW	.9	2.0	2.7	1.2	.1	.0						7.1	7.8
WSW	2.0	4.3	6.5	3.3	.4	.0						18.6	8.1
W	3.1	3.5	3.2	1.1	.1							10.9	6.1
WNW	.8	.3	.1	.0								1.2	3.3
NW	.2	.1										.3	2.7
NNW	.2	.0	.0									.3	3.1
VARBL	.0	.0	1.6	.8	.2	.1						2.7	10.8
CALM												38.5	
	18.0	18.6	16.7	7.1	.9	.2						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

14011

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.

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	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

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

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

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

ADDITIONAL EXAMPLES

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

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

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

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

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

GLOBAL CLIMATOLOGY BRANCH
AFSTAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10 140 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
NO OBSERVATIONS	5.6	12.2	13.5	13.9	16.4	16.5	18.0	19.8	20.5	21.7	21.7	21.8	22.4	22.6	22.8	23.4	
20000	9.5	13.1	14.8	15.2	17.9	18.0	20.0	22.0	22.8	24.0	24.0	24.2	24.8	25.0	25.2	25.8	
20000	9.5	13.1	14.8	15.2	17.9	18.0	20.0	22.0	22.8	24.0	24.0	24.2	24.8	25.0	25.2	25.8	
20000	9.5	13.1	14.8	15.2	17.9	18.0	20.0	22.0	22.8	24.0	24.0	24.2	24.8	25.0	25.2	25.8	
20000	9.5	13.1	14.8	15.2	17.9	18.0	20.0	22.0	22.8	24.0	24.0	24.2	24.8	25.0	25.2	25.8	
20000	9.5	13.1	15.1	15.3	18.0	18.1	20.1	22.1	22.9	24.1	24.1	24.4	25.0	25.1	25.3	25.9	
20000	10.0	13.6	15.4	15.8	18.5	18.6	20.6	22.6	23.4	24.8	24.8	25.1	25.7	25.8	26.1	26.7	
20000	10.4	14.0	15.8	16.2	18.8	18.9	21.0	22.9	23.8	25.2	25.2	25.5	26.1	26.2	26.4	27.0	
20000	11.5	15.2	17.1	17.6	20.4	20.5	22.7	24.6	25.5	26.9	26.9	27.1	27.7	27.9	28.1	28.7	
20000	12.3	16.7	18.1	18.6	21.4	21.5	23.6	25.6	26.4	27.9	27.9	28.1	28.7	28.8	29.1	29.7	
20000	12.4	16.4	18.7	19.2	22.0	22.1	24.2	26.2	27.1	28.5	28.5	28.7	29.3	29.4	29.7	30.3	
20000	13.6	18.1	20.4	20.9	23.9	24.1	26.2	28.1	29.0	30.4	30.4	30.6	31.2	31.4	31.6	32.2	
20000	16.4	21.5	23.8	24.2	27.4	27.7	30.2	32.1	33.3	35.0	35.0	35.2	35.8	35.9	36.2	36.9	
20000	18.2	23.8	26.1	26.5	29.9	30.3	32.7	34.6	35.9	37.6	37.6	38.0	38.6	38.7	39.0	39.6	
20000	19.7	25.6	28.0	28.6	32.0	32.3	35.2	37.2	38.5	40.2	40.2	40.5	41.1	41.3	41.5	42.1	
20000	25.0	31.7	34.9	35.7	39.9	40.3	43.3	45.4	46.9	48.7	48.7	49.1	49.7	49.8	50.1	50.7	
20000	25.9	33.5	37.2	38.0	42.7	43.1	46.1	48.5	50.1	52.0	52.0	52.4	53.0	53.1	53.3	53.9	
20000	28.6	37.5	41.3	42.3	47.9	48.3	51.3	54.2	56.2	58.1	58.3	58.6	59.2	59.3	59.6	60.2	
20000	30.3	39.2	43.2	44.3	49.8	50.2	53.4	56.3	58.4	60.3	60.4	60.8	61.4	61.5	61.8	62.4	
20000	36.4	47.9	52.4	54.0	60.2	60.6	63.8	67.3	69.5	71.4	71.5	71.9	72.5	72.6	72.9	73.5	
20000	38.1	50.3	55.5	57.8	64.9	65.3	68.8	72.5	74.7	76.8	77.0	77.3	77.9	78.0	78.3	78.9	
20000	40.3	52.8	58.9	61.4	70.0	70.3	73.9	78.0	80.2	82.5	82.6	83.0	83.6	83.7	84.0	84.6	
20000	40.7	53.3	59.5	62.6	72.3	72.7	76.4	80.7	82.9	85.6	85.8	86.1	86.7	86.9	87.1	87.7	
20000	40.7	53.3	59.5	62.7	72.9	73.3	77.6	82.6	85.2	87.9	88.1	88.4	89.0	89.1	89.4	90.0	
20000	40.7	53.3	59.6	63.1	74.1	74.5	79.0	84.2	86.7	90.0	90.1	90.5	91.1	91.2	91.4	92.1	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.2	86.1	88.7	92.5	92.6	93.0	93.6	93.7	94.0	94.6	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.6	87.2	89.7	94.8	94.9	95.3	95.9	96.0	96.3	96.9	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.6	87.3	89.9	95.4	95.5	95.9	96.6	96.7	97.0	97.6	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.8	87.6	90.1	96.1	96.3	96.6	97.3	97.5	97.7	98.3	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.8	87.6	90.2	96.4	96.6	97.0	97.9	98.1	98.6	99.6	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.8	87.6	90.2	96.4	96.6	97.0	97.9	98.3	98.9	100.0	
20000	40.7	53.3	59.6	63.1	75.3	75.8	80.8	87.6	90.2	96.4	96.6	97.0	97.9	98.3	98.9	100.0	

TOTAL NUMBER OF OBSERVATIONS

829

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

ELEVATION FEET		VISIBILITY STATUTE MILES																
		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	11	12
0-100	100	7.1	9.2	10.4	10.8	13.5	13.5	14.9	17.3	17.7	18.9	18.9	19.2	19.6	19.9	20.1	20.6	
100-200	200	8.1	10.3	11.8	12.1	15.2	15.2	16.7	19.2	19.6	21.0	21.0	21.2	21.7	21.9	22.2	22.7	
200-300	300	8.1	10.3	11.8	12.1	15.2	15.2	16.7	19.2	19.6	21.0	21.0	21.2	21.7	21.9	22.2	22.7	
300-400	400	8.1	10.3	11.8	12.1	15.2	15.2	16.7	19.2	19.6	21.0	21.0	21.2	21.7	21.9	22.2	22.7	
400-500	500	8.1	10.3	11.8	12.1	15.2	15.2	16.7	19.2	19.6	21.0	21.0	21.2	21.7	21.9	22.2	22.7	
500-600	600	8.1	10.4	11.9	12.4	15.4	15.4	17.0	19.4	19.9	21.2	21.2	21.5	21.9	22.2	22.4	22.9	
600-700	700	8.1	10.4	11.9	12.4	15.4	15.4	17.0	19.4	19.9	21.2	21.2	21.5	21.9	22.2	22.4	22.9	
700-800	800	8.1	10.5	12.0	12.5	15.5	15.5	17.1	19.5	20.0	21.3	21.3	21.6	22.1	22.3	22.5	23.0	
800-900	900	8.7	11.2	12.8	13.3	16.4	16.4	18.2	20.6	21.1	22.5	22.5	22.8	23.3	23.5	23.8	24.2	
900-1000	1000	9.2	11.6	13.3	13.8	17.1	17.1	18.9	21.3	21.8	23.4	23.4	23.6	24.1	24.4	24.6	25.1	
1000-1100	1100	9.2	12.0	13.7	14.2	17.5	17.5	19.3	21.7	22.2	23.8	23.8	24.0	24.5	24.7	25.1	25.5	
1100-1200	1200	10.9	14.1	15.9	16.5	19.8	19.8	21.6	24.0	24.5	26.1	26.1	26.3	26.8	27.0	27.3	27.8	
1200-1300	1300	13.8	17.2	19.1	19.6	23.3	23.8	25.6	28.1	29.0	30.5	30.5	30.8	31.3	31.5	31.8	32.2	
1300-1400	1400	15.9	19.6	21.5	22.4	26.1	26.5	28.5	31.0	31.9	33.6	33.6	33.8	34.3	34.5	34.8	35.3	
1400-1500	1500	17.2	21.0	23.2	24.1	27.8	28.2	30.5	33.2	34.2	36.1	36.1	36.4	36.8	37.1	37.3	37.8	
1500-1600	1600	20.6	25.7	28.1	29.2	33.2	33.7	36.2	38.9	39.9	41.9	41.9	42.2	42.7	42.9	43.2	43.6	
1600-1700	1700	22.9	29.6	32.4	33.5	37.7	38.2	40.8	43.6	44.6	46.7	46.7	46.9	47.4	47.6	48.1	48.5	
1700-1800	1800	27.2	35.2	38.3	39.6	44.6	45.1	48.0	50.8	52.5	54.8	54.9	55.2	55.9	56.0	56.4	56.8	
1800-1900	1900	28.1	36.2	39.5	40.8	45.9	46.4	49.3	52.1	53.8	56.1	56.2	56.5	57.1	57.3	57.7	58.2	
1900-2000	2000	34.7	44.5	48.6	50.4	56.0	56.5	59.9	63.4	65.1	67.4	67.5	67.8	68.4	68.6	69.0	69.5	
2000-2100	2100	37.3	48.5	52.8	55.6	61.9	62.4	66.1	70.1	71.9	74.2	74.3	74.5	75.2	75.4	75.8	76.2	
2100-2200	2200	39.4	50.8	55.4	58.4	66.3	66.8	70.5	74.9	76.7	79.0	79.2	79.4	80.0	80.2	80.6	81.1	
2200-2300	2300	39.3	51.2	56.1	59.8	68.1	68.6	72.6	77.3	79.2	81.6	81.7	81.9	82.5	82.8	83.2	83.6	
2300-2400	2400	40.2	52.0	57.0	60.6	69.8	70.3	75.4	81.1	83.2	85.7	85.8	86.1	86.7	86.9	87.3	87.8	
2400-2500	2500	40.6	52.4	57.3	61.3	71.8	72.5	77.7	83.9	85.9	89.1	89.2	89.5	90.1	90.3	90.7	91.2	
2500-2600	2600	40.6	52.4	57.3	61.7	72.5	73.2	79.3	86.1	88.1	91.4	91.5	91.8	92.4	92.6	93.0	93.5	
2600-2700	2700	40.6	52.4	57.3	61.7	73.0	73.7	80.1	87.4	89.5	93.2	93.3	93.6	94.2	94.4	94.8	95.3	
2700-2800	2800	40.6	52.4	57.3	61.7	73.0	73.7	80.1	87.9	90.4	94.7	94.9	95.3	96.1	96.4	96.7	97.3	
2800-2900	2900	40.6	52.4	57.3	61.7	73.0	73.7	80.1	88.0	90.7	95.5	95.8	96.2	97.2	97.5	97.9	98.5	
2900-3000	3000	40.6	52.4	57.3	61.7	73.0	73.7	80.1	88.0	90.7	95.8	96.0	96.5	97.6	98.1	99.0	100.0	
3000-3100	3100	40.6	52.4	57.3	61.7	73.0	73.7	80.1	88.0	90.7	95.8	96.0	96.5	97.6	98.1	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 825

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 0140 PAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NIL - CEILING	6.8	7.9	8.5	9.0	11.2	11.2	12.5	14.3	15.5	16.3	16.3	16.3	16.3	16.5	16.7	16.7
2 2000	7.8	9.6	10.3	10.9	13.5	13.5	14.8	16.7	18.1	18.9	18.9	18.9	18.9	19.2	19.4	19.5
2 1800	7.8	9.6	10.3	10.9	13.5	13.5	14.8	16.7	18.1	18.9	18.9	18.9	18.9	19.2	19.4	19.5
2 1600	7.8	9.6	10.3	10.9	13.5	13.5	14.8	16.7	18.1	18.9	18.9	18.9	18.9	19.2	19.4	19.5
2 1400	7.9	9.7	10.4	11.0	13.6	13.6	14.9	16.9	18.2	19.1	19.1	19.1	19.1	19.3	19.5	19.7
2 1200	7.9	9.7	10.4	11.2	13.7	13.7	15.0	17.0	18.3	19.2	19.2	19.2	19.2	19.4	19.7	19.8
2 1000	8.1	10.1	11.2	11.8	14.3	14.3	15.7	17.6	18.9	19.8	19.8	19.8	19.8	20.0	20.3	20.4
2 900	8.3	10.3	11.4	12.1	14.7	14.7	16.0	18.0	19.3	20.1	20.1	20.1	20.1	20.4	20.6	20.8
2 800	8.4	10.6	11.6	12.6	15.3	15.3	16.5	18.7	20.1	21.0	21.0	21.0	21.0	21.2	21.5	21.6
2 700	8.9	11.0	12.3	13.1	15.8	15.8	17.1	19.3	20.8	21.6	21.6	21.6	21.6	21.8	22.1	22.2
2 600	9.0	11.7	12.9	13.7	16.4	16.4	17.7	20.0	21.5	22.3	22.3	22.3	22.3	22.6	22.8	22.9
2 500	10.3	13.1	14.3	15.2	17.8	17.8	19.2	21.6	23.1	24.2	24.2	24.2	24.2	24.4	24.6	24.8
2 4500	12.7	16.0	17.4	18.3	21.1	21.1	22.5	25.0	26.5	27.7	27.7	27.7	27.7	27.9	28.2	28.3
2 4000	14.0	17.5	18.9	19.9	22.7	22.7	24.2	26.7	28.2	29.4	29.4	29.4	29.4	29.5	30.1	30.2
2 3500	16.0	19.9	21.4	22.3	25.5	25.5	27.5	30.3	31.9	33.1	33.1	33.1	33.1	33.3	33.9	34.0
2 3000	18.8	23.3	25.0	26.2	30.0	30.1	32.5	35.6	37.3	38.5	38.5	38.5	38.5	38.8	39.2	39.3
2 2500	20.5	26.5	28.3	29.6	33.5	33.6	36.3	39.4	41.1	42.4	42.4	42.4	42.4	42.7	43.1	43.2
2 2000	25.1	32.2	34.3	35.9	40.8	40.9	44.3	47.8	49.5	50.7	51.0	51.1	51.2	51.5	51.8	51.9
2 1800	26.7	34.1	36.3	37.9	43.0	43.1	46.5	50.0	51.7	52.9	53.2	53.3	53.4	53.6	54.0	54.1
2 1500	33.6	42.2	44.8	46.8	53.4	53.8	57.5	61.3	63.0	64.2	64.4	64.6	64.7	64.9	65.3	65.4
2 1200	36.7	46.8	50.2	53.4	60.7	61.0	64.9	68.8	70.6	72.0	72.2	72.3	72.5	72.7	73.1	73.2
2 1000	37.9	48.9	53.3	56.8	65.8	66.1	70.5	74.8	76.7	78.0	78.3	78.4	78.5	78.8	79.1	79.2
2 900	38.1	49.3	54.6	59.0	68.7	69.1	73.9	78.3	80.2	81.6	81.8	81.9	82.0	82.3	82.6	82.8
2 800	38.5	50.5	56.3	60.8	71.4	71.7	76.8	81.4	83.4	84.7	85.0	85.1	85.2	85.4	85.8	85.9
2 700	38.8	51.0	56.9	61.8	72.9	73.3	79.0	84.0	86.0	87.6	88.0	88.1	88.2	88.5	88.8	89.0
2 600	38.8	51.0	56.9	61.8	73.4	73.8	80.5	86.5	88.6	90.3	90.7	90.8	90.9	91.1	91.5	91.6
2 500	38.8	51.0	56.9	61.8	73.8	74.2	81.1	87.7	89.9	92.1	92.5	92.6	92.7	93.0	93.3	93.4
2 400	38.8	51.0	56.9	61.8	73.8	74.2	81.3	89.1	91.3	93.8	94.2	94.4	94.5	94.8	95.1	95.3
2 300	38.8	51.0	56.9	61.8	73.9	74.3	81.4	89.3	91.5	95.5	96.0	96.4	96.6	97.0	97.3	97.5
2 200	38.8	51.0	56.9	61.8	73.9	74.3	81.4	89.3	91.5	95.8	96.2	96.7	97.1	97.8	98.3	99.4
2 100	38.8	51.0	56.9	61.8	73.9	74.3	81.4	89.3	91.5	95.8	96.2	96.8	97.2	97.9	98.5	100.0
2	38.8	51.0	56.9	61.8	73.9	74.3	81.4	89.3	91.5	95.8	96.2	96.8	97.2	97.9	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 824

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

2

1

1

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833

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

12/140 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

		VISIBILITY - STATUTE MILES															
		20	26	24	24	24	22	22	20	20	18	18	16	16	14	14	12
1	1000	7.1	8.7	10.1	11.1	13.6	13.7	14.2	15.2	16.0	16.7	16.7	16.7	16.7	16.7	16.8	17.0
2	800	13.1	12.3	14.0	15.4	18.7	19.8	19.4	20.3	21.2	21.9	21.9	21.9	21.9	22.0	22.0	22.1
3	600	17.9	12.8	14.4	15.9	19.1	19.3	19.9	20.8	21.7	22.4	22.4	22.4	22.4	22.5	22.5	22.6
4	400	10.9	12.8	14.4	15.9	19.1	19.3	19.9	20.8	21.7	22.4	22.4	22.4	22.4	22.5	22.5	22.6
5	200	11.0	13.2	14.9	16.4	19.6	19.7	20.3	21.3	22.1	22.9	22.9	22.9	22.9	23.0	23.0	23.1
6	100	11.1	13.4	15.0	16.5	19.7	19.9	20.5	21.4	22.3	23.0	23.0	23.0	23.0	23.1	23.1	23.2
7	50	11.3	13.7	15.5	17.1	20.3	20.5	21.1	22.0	22.9	23.7	23.7	23.7	23.7	23.8	23.8	23.9
8	25	11.3	13.7	15.5	17.1	20.3	20.5	21.1	22.3	23.1	23.9	23.9	23.9	23.9	24.1	24.1	24.2
9	10	12.3	15.2	17.4	19.1	22.7	22.9	23.5	24.7	25.5	26.5	26.5	26.5	26.5	26.6	26.6	26.7
10	5	13.6	16.5	18.8	20.5	24.2	24.3	24.9	26.1	27.0	27.9	27.9	27.9	27.9	28.0	28.0	28.2
11	2	14.1	17.0	19.3	20.9	24.7	24.8	25.4	26.6	27.4	28.4	28.4	28.4	28.4	28.5	28.5	28.6
12	1	14.4	17.4	19.7	21.4	25.4	25.5	26.1	27.3	28.2	29.1	29.1	29.1	29.1	29.2	29.2	29.4
13	4500	16.4	19.6	21.9	23.6	27.8	27.9	28.6	29.8	30.7	31.8	31.8	31.9	31.9	32.0	32.0	32.1
14	4000	17.2	21.3	23.6	25.5	30.1	30.2	31.2	32.5	33.5	34.5	34.5	34.5	34.7	34.8	34.8	34.9
15	3500	19.1	23.5	25.9	28.0	32.6	32.7	33.8	35.4	36.3	37.5	37.5	37.7	37.7	37.8	37.8	37.9
16	3000	22.7	27.7	31.8	33.6	38.9	39.0	40.2	41.8	42.8	44.4	44.4	44.5	44.5	44.6	44.6	44.8
17	2500	25.3	31.2	34.5	37.4	43.2	43.4	44.9	46.5	47.5	49.2	49.2	49.3	49.3	49.5	49.5	49.6
18	2000	28.0	35.1	38.7	42.6	49.2	49.6	51.1	52.8	53.9	55.7	55.7	55.8	55.8	56.0	56.0	56.1
19	1800	29.4	37.3	41.2	45.0	51.9	52.2	53.8	55.5	56.6	58.4	58.4	58.5	58.5	58.6	58.6	58.7
20	1600	35.1	44.5	49.2	53.2	61.1	61.9	63.9	65.7	66.8	68.8	68.8	69.3	69.3	69.4	69.4	69.6
21	1400	37.2	48.0	52.9	57.3	66.5	67.6	69.8	71.8	73.2	75.5	75.5	75.9	75.9	76.1	76.1	76.2
22	1200	38.1	49.2	55.1	59.6	70.5	72.2	75.7	77.9	79.4	81.7	81.7	82.2	82.2	82.3	82.3	82.4
23	1000	38.4	50.1	56.3	60.9	73.0	75.3	78.8	81.0	82.6	85.0	85.1	85.6	85.6	85.7	85.7	85.8
24	900	38.6	50.5	56.9	61.9	75.6	77.9	82.1	84.4	86.0	88.4	88.6	89.0	89.0	89.2	89.2	89.3
25	800	38.7	51.8	57.4	62.5	77.3	80.0	84.7	87.2	88.9	92.1	92.2	92.8	92.8	92.9	92.9	93.0
26	700	38.7	50.8	57.4	62.6	78.0	80.7	86.2	88.9	90.7	94.8	94.9	95.5	95.5	95.7	95.7	95.8
27	600	38.9	51.0	57.6	62.8	78.3	81.2	86.8	89.9	91.7	96.3	96.6	97.2	97.2	97.5	97.5	97.6
28	500	38.9	51.0	57.6	62.8	78.3	81.2	86.8	90.3	92.3	97.0	97.5	98.2	98.2	98.4	98.4	98.6
29	400	38.9	51.0	57.6	62.8	78.3	81.2	86.8	90.4	92.4	97.1	97.6	98.3	98.3	98.6	98.6	98.7
30	300	38.9	51.0	57.6	62.8	78.3	81.2	86.8	90.4	92.4	97.1	97.6	98.3	98.3	98.7	99.2	100.0
31	200	38.9	51.0	57.6	62.8	78.3	81.2	86.8	90.4	92.4	97.1	97.6	98.3	98.3	98.7	99.2	100.0
32	100	38.9	51.0	57.6	62.8	78.3	81.2	86.8	90.4	92.4	97.1	97.6	98.3	98.3	98.7	99.2	100.0
33	50	38.9	51.0	57.6	62.8	78.3	81.2	86.8	90.4	92.4	97.1	97.6	98.3	98.3	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 831

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	VISIBILITY STATISTICAL VALUES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2000	7.3	9.6	11.3	11.5	14.9	15.2	16.2	16.7	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
1800	10.3	13.0	14.9	15.4	19.4	19.8	20.9	21.4	21.8	22.0	22.0	22.0	22.0	22.0	22.0	22.0
1600	10.9	13.6	15.4	16.0	20.0	20.4	21.5	22.0	22.4	22.6	22.6	22.6	22.6	22.6	22.6	22.6
1400	11.1	13.7	15.5	16.1	20.2	20.5	21.6	22.1	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7
1200	11.5	14.2	16.3	16.6	20.6	21.0	22.1	22.6	23.0	23.2	23.2	23.2	23.2	23.2	23.2	23.2
1000	11.9	14.5	16.3	16.9	21.0	21.4	22.4	22.9	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5
800	12.7	15.5	17.4	18.1	22.7	23.0	24.1	24.6	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2
600	13.2	16.2	18.1	18.8	23.5	23.9	25.0	25.5	25.9	26.1	26.1	26.1	26.1	26.1	26.1	26.1
400	14.2	17.5	19.7	20.8	25.8	26.2	27.3	27.9	28.3	28.6	28.6	28.6	28.6	28.6	28.6	28.6
200	15.1	18.4	20.5	21.6	26.7	27.0	28.1	28.7	29.2	29.4	29.4	29.4	29.4	29.4	29.4	29.4
100	15.3	18.5	20.6	21.7	26.8	27.1	28.2	28.8	29.3	29.5	29.5	29.5	29.5	29.5	29.5	29.5
50	16.2	20.6	22.8	23.9	29.2	29.5	30.6	31.2	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9
25	17.8	22.2	24.4	25.6	31.1	31.8	32.9	33.5	34.0	34.2	34.2	34.2	34.2	34.2	34.2	34.2
10	19.7	25.0	27.4	28.6	34.2	34.9	36.1	36.7	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5
5	21.1	26.9	29.5	30.7	36.6	37.3	38.5	39.1	39.6	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2	26.8	34.8	38.8	40.7	47.5	48.3	49.5	50.2	50.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9
1	29.4	38.1	42.4	44.4	51.4	52.1	53.3	54.0	54.5	55.6	55.7	55.9	55.9	55.9	55.9	55.9
0	31.9	41.5	46.0	49.1	56.4	57.1	58.5	59.2	59.7	60.9	61.0	61.2	61.2	61.2	61.2	61.2
2000	34.3	44.8	49.6	52.8	60.3	61.0	62.3	63.0	63.5	64.7	64.8	65.1	65.1	65.1	65.1	65.1
1800	38.5	51.8	57.3	60.9	69.5	70.3	71.8	72.5	73.0	74.3	74.4	74.7	74.7	74.7	74.7	74.7
1600	39.9	54.1	60.6	64.5	74.1	74.9	76.7	77.8	78.3	79.8	80.0	80.2	80.2	80.2	80.2	80.2
1400	40.8	55.5	63.0	67.2	80.1	81.3	83.6	84.6	85.2	87.0	87.2	87.4	87.5	87.5	87.5	87.5
1200	41.2	55.9	63.7	68.1	82.1	83.4	85.8	87.0	87.8	90.2	90.3	90.5	90.6	90.6	90.6	90.6
1000	41.2	56.2	64.0	68.3	83.4	85.1	88.2	89.4	90.2	92.6	92.7	92.9	93.0	93.0	93.0	93.0
800	41.2	56.2	64.1	68.5	84.0	85.7	89.1	90.3	91.0	94.2	94.4	94.7	94.8	94.8	94.8	94.8
600	41.2	56.3	64.3	68.9	84.8	86.7	90.8	92.2	92.9	96.8	96.9	97.2	97.4	97.4	97.4	97.4
400	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.3	93.0	97.2	97.4	97.7	97.8	98.0	98.0	98.0
200	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.3	98.9	99.0	99.2	99.2	99.2
100	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
50	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
25	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
10	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
5	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
2	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
1	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5
0	41.2	56.3	64.3	68.9	84.8	86.7	90.9	92.7	93.4	98.2	98.6	99.2	99.3	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 833

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

17 140 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES																
	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
NO CEILING	9.7	12.5	14.8	15.4	18.1	18.3	20.1	21.2	21.8	22.7	22.7	22.9	22.9	23.2	23.3	23.4	
20000	11.1	14.2	16.6	17.2	20.3	20.5	22.3	23.5	24.5	25.5	25.5	25.6	25.8	26.2	26.3	26.5	
18000	11.1	14.2	16.6	17.2	20.3	20.5	22.3	23.5	24.5	25.5	25.5	25.6	25.8	26.2	26.3	26.5	
16000	11.1	14.2	16.6	17.2	20.3	20.5	22.3	23.5	24.5	25.5	25.5	25.6	25.8	26.2	26.3	26.5	
14000	11.2	14.4	16.8	17.4	20.4	20.6	22.4	23.6	24.6	25.6	25.6	25.7	25.9	26.3	26.4	26.7	
12000	11.6	14.7	17.1	17.7	20.7	21.0	22.8	24.0	25.0	25.9	25.9	26.1	26.3	26.7	26.8	27.0	
10000	12.3	16.0	18.5	19.1	22.1	22.3	24.2	25.5	26.4	27.4	27.4	27.5	27.7	28.1	28.2	28.5	
9000	12.3	16.0	18.5	19.1	22.1	22.3	24.2	25.5	26.4	27.4	27.4	27.5	27.7	28.1	28.2	28.5	
8000	13.3	17.9	20.3	21.2	24.4	24.6	26.5	27.7	28.8	29.8	29.8	29.9	30.2	30.5	30.6	30.9	
7000	14.2	18.2	20.6	21.6	24.7	25.0	26.9	28.1	29.2	30.2	30.2	30.3	30.5	30.9	31.0	31.2	
6000	14.4	18.3	20.7	21.7	24.8	25.1	27.0	28.2	29.3	30.3	30.3	30.4	30.6	31.0	31.1	31.4	
5000	15.2	19.7	22.2	23.2	26.3	26.5	28.5	29.7	30.8	31.7	31.7	31.8	32.1	32.4	32.6	32.8	
4500	18.5	23.4	25.9	26.9	30.2	30.4	32.3	33.5	34.6	35.6	35.6	35.7	35.9	36.3	36.4	36.7	
4000	20.0	25.5	28.0	29.0	32.8	33.4	35.5	36.8	37.9	38.8	38.8	39.0	39.2	39.6	39.7	39.9	
3500	22.2	27.9	30.4	31.4	35.3	35.9	38.0	39.4	40.7	41.6	41.6	41.7	42.0	42.3	42.5	42.7	
3000	25.8	32.3	35.3	37.0	42.1	42.8	45.0	46.6	47.9	49.5	49.5	49.6	49.8	50.2	50.4	50.8	
2500	29.1	37.8	41.1	42.8	48.1	48.9	51.1	52.7	54.0	55.6	55.6	55.9	56.1	56.5	56.7	57.1	
2000	32.6	42.8	46.7	49.0	55.1	56.0	58.4	60.2	61.5	63.3	63.3	63.6	63.8	64.2	64.4	64.8	
1800	33.4	44.4	48.9	51.1	57.7	58.5	60.9	62.7	64.1	65.9	65.9	66.1	66.3	66.7	66.9	67.3	
1500	36.6	49.7	55.2	58.1	65.5	66.5	68.9	71.0	72.6	74.8	74.8	75.0	75.3	75.6	75.9	76.2	
1200	36.8	50.8	57.3	60.3	69.5	70.4	73.2	75.5	77.2	79.6	79.6	79.9	80.1	80.5	80.7	81.1	
1000	36.9	51.0	57.8	62.2	72.9	74.1	77.2	79.9	81.5	84.1	84.1	84.3	84.6	84.9	85.2	85.5	
900	37.4	51.7	58.9	63.8	75.4	76.6	80.0	82.9	84.6	87.7	87.7	87.9	88.2	88.5	88.8	89.1	
800	37.4	51.7	59.3	64.7	76.7	78.5	82.5	85.4	87.1	90.3	90.3	90.6	90.8	91.2	91.4	91.6	
700	37.4	51.7	59.3	65.1	77.6	79.4	84.0	87.0	88.9	92.8	92.8	93.0	93.2	93.6	93.8	94.2	
600	37.4	51.7	59.3	65.1	78.4	80.3	85.2	88.3	90.3	94.3	94.3	94.6	94.8	95.2	95.4	95.8	
500	37.4	51.7	59.3	65.1	78.5	80.5	85.5	88.8	90.8	95.4	95.4	95.8	96.0	96.4	96.6	97.0	
400	37.4	51.7	59.3	65.1	78.5	80.5	85.9	89.5	91.7	96.9	96.9	97.3	97.7	98.1	98.3	98.7	
300	37.4	51.7	59.3	65.1	78.5	80.5	85.9	89.5	91.7	97.2	97.2	97.9	98.2	98.6	98.8	99.2	
200	37.4	51.7	59.3	65.1	78.5	80.5	85.9	89.5	91.7	97.5	97.6	98.3	98.6	98.9	99.2	99.8	
100	37.4	51.7	59.3	65.1	78.5	80.5	85.9	89.5	91.7	97.6	97.7	98.4	98.7	99.0	99.3	99.9	
0	37.5	51.9	59.5	65.3	78.6	80.6	86.0	89.6	91.8	97.7	97.8	98.6	98.8	99.2	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS 829

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10.14 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBILITY STATISTICAL INTERVALS															
	210	25	31	34	40	47	55	63	71	80	90	100	120	150	200	250
NO OBS	9.4	10.8	12.5	13.3	15.4	16.1	18.4	19.6	20.2	21.2	21.4	21.5	21.6	22.1	22.3	22.7
20000	10.7	12.6	14.5	15.4	17.4	18.1	20.5	21.7	22.8	23.9	24.0	24.4	24.6	25.1	25.3	25.8
18000	10.7	12.6	14.5	15.4	17.4	18.1	20.5	21.7	22.8	23.9	24.0	24.4	24.6	25.1	25.3	25.8
16000	10.7	12.6	14.5	15.4	17.4	18.1	20.5	21.7	22.8	23.9	24.0	24.4	24.6	25.1	25.3	25.8
14000	10.7	12.6	14.5	15.4	17.4	18.1	20.5	21.7	22.8	23.9	24.0	24.4	24.6	25.1	25.3	25.8
12000	10.7	12.6	14.5	15.4	17.4	18.1	20.5	21.7	22.8	23.9	24.0	24.4	24.6	25.1	25.3	25.8
10000	11.9	13.8	15.7	16.6	18.6	19.3	21.7	23.0	24.1	25.2	25.3	25.7	25.9	26.4	26.7	27.1
9000	11.9	14.2	16.2	17.0	19.1	19.8	22.2	23.5	24.6	25.7	25.8	26.2	26.4	26.9	27.1	27.6
8000	13.2	15.6	17.9	19.1	21.1	21.8	24.2	25.7	26.8	27.9	28.0	28.3	28.6	29.1	29.3	29.8
7000	14.0	16.6	18.8	20.0	22.1	22.8	25.2	26.7	27.7	28.8	28.9	29.3	29.5	30.0	30.3	30.7
6000	14.7	16.6	18.8	20.0	22.1	22.8	25.2	26.7	27.7	28.8	28.9	29.3	29.5	30.0	30.3	30.7
5000	15.8	18.8	21.2	22.4	24.8	25.6	28.0	29.4	30.5	31.6	31.7	32.1	32.3	32.8	33.0	33.5
4500	18.8	22.3	25.7	26.2	28.8	29.9	32.3	33.7	34.8	35.9	36.0	36.4	36.7	37.2	37.5	37.9
4000	20.4	24.5	27.1	28.3	31.3	32.4	34.8	36.3	37.3	38.4	38.5	38.9	39.3	39.7	40.0	40.6
3500	22.9	26.8	29.4	30.6	33.6	34.7	37.3	38.8	39.9	40.9	41.1	41.4	41.8	42.3	42.5	43.1
3000	26.4	32.1	35.3	36.9	40.7	41.8	44.7	46.2	47.4	49.0	49.1	49.5	50.1	50.5	50.8	51.4
2500	28.5	35.4	38.9	40.6	44.8	45.9	48.7	50.4	51.6	53.2	53.3	53.7	54.3	54.7	55.0	55.6
2000	31.3	39.7	44.1	46.0	50.4	51.5	54.9	57.0	58.3	60.0	60.1	60.5	61.2	61.7	61.9	62.5
1800	31.8	40.7	45.1	47.3	51.9	52.9	56.4	58.6	59.9	61.6	61.7	62.1	62.8	63.3	63.5	64.1
1500	37.5	48.3	53.2	55.7	61.7	62.9	66.4	68.5	70.0	71.7	71.8	72.1	72.9	73.3	73.6	74.2
1000	38.2	50.2	56.3	59.5	66.7	68.2	72.1	74.5	76.2	77.9	78.0	78.4	79.1	79.6	79.8	80.4
800	38.4	51.7	58.2	62.2	70.1	71.7	75.9	78.8	80.4	82.2	82.4	82.7	83.4	83.9	84.2	84.8
600	38.9	52.3	59.2	63.8	72.5	74.1	78.5	81.8	83.4	85.6	85.7	86.2	86.9	87.4	87.6	88.2
500	38.9	52.5	59.9	64.7	74.2	75.8	80.4	83.8	85.5	87.9	88.0	88.5	89.4	89.9	90.2	90.8
400	38.9	52.5	60.1	65.1	75.5	77.1	81.8	85.5	87.2	90.2	90.3	90.9	91.8	92.3	92.6	93.2
300	38.9	52.5	60.0	65.1	76.4	77.9	82.6	86.4	88.4	91.7	91.8	92.4	93.4	93.9	94.1	94.7
200	38.9	52.5	60.1	65.2	76.7	78.5	83.3	87.2	89.1	92.8	92.9	93.5	94.5	95.3	95.2	95.8
100	38.9	52.5	60.1	65.2	76.7	78.5	83.7	87.8	90.0	94.6	94.7	95.3	96.3	96.8	97.0	97.6
50	38.9	52.5	60.1	65.2	76.7	78.5	83.8	87.9	90.2	95.6	95.7	96.4	97.4	97.8	98.1	98.7
25	38.9	52.5	60.1	65.2	76.7	78.5	83.8	87.9	90.3	96.0	96.2	96.9	98.0	98.4	98.7	99.4
10	38.9	52.5	60.1	65.2	76.7	78.5	83.8	87.9	90.3	96.0	96.2	96.9	98.3	98.9	99.3	100.0
5	38.9	52.5	60.1	65.2	76.7	78.5	83.8	87.9	90.3	96.0	96.2	96.9	98.3	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 833

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

1 145 RAMSTEIN AB DL

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

VISIBILITY IN FEET																
2000	1800	1600	1400	1200	1000	800	600	400	300	200	100	50	25	10	5	1
2000	7.6	9.6	11.7	11.5	14.0	14.2	15.6	16.9	17.6	18.6	18.6	18.7	18.9	19.1	19.3	19.5
1800	9.3	11.7	13.3	13.9	16.7	17.3	18.5	19.9	20.7	21.8	21.9	22.0	22.2	22.5	22.6	22.9
1600	9.4	11.8	13.4	14.0	16.8	17.1	18.6	20.0	20.8	22.0	22.0	22.1	22.3	22.6	22.8	23.1
1400	9.5	11.8	13.4	14.1	16.9	17.1	18.6	20.0	20.9	22.0	22.0	22.1	22.3	22.6	22.8	23.1
1200	9.5	12.0	13.6	14.2	17.0	17.3	18.8	20.2	21.0	22.1	22.2	22.3	22.5	22.8	22.9	23.2
1000	9.7	12.1	13.7	14.4	17.2	17.4	18.9	20.3	21.2	22.3	22.3	22.4	22.7	22.9	23.1	23.4
800	10.2	12.8	14.5	15.2	18.1	18.3	19.8	21.2	22.1	23.2	23.3	23.4	23.6	23.9	24.0	24.3
600	10.4	13.1	14.8	15.5	18.4	18.6	20.2	21.6	22.5	23.6	23.7	23.8	24.0	24.3	24.4	24.7
400	11.4	14.3	16.2	17.1	20.3	20.5	22.1	23.7	24.5	25.7	25.8	25.9	26.1	26.4	26.5	26.8
300	12.1	15.7	17.3	17.9	21.1	21.4	23.0	24.5	25.4	26.7	26.7	26.8	27.0	27.3	27.5	27.8
200	12.2	15.3	17.3	18.2	21.4	21.7	23.3	24.9	25.7	27.0	27.1	27.2	27.4	27.7	27.8	28.1
100	13.4	16.9	18.9	19.8	23.2	23.5	25.1	26.7	27.6	28.9	28.9	29.0	29.2	29.5	29.7	30.0
50	16.7	19.8	21.9	22.9	26.5	26.9	28.6	30.2	31.2	32.5	32.6	32.7	33.0	33.2	33.4	33.7
25	17.5	21.8	24.0	25.0	28.8	29.3	31.1	32.8	33.8	35.2	35.2	35.3	35.6	35.9	36.0	36.3
10	19.2	23.8	26.2	27.2	31.2	31.7	33.7	35.5	36.5	38.0	38.0	38.1	38.4	38.7	38.8	39.1
5	23.1	28.8	31.7	33.3	38.1	38.7	40.9	42.7	43.9	45.6	45.7	45.8	46.1	46.4	46.6	46.9
1	25.2	32.2	35.4	37.1	42.3	42.9	45.2	47.1	48.3	50.1	50.1	50.3	50.6	50.9	51.1	51.4
0.5	28.5	36.7	40.3	42.5	48.4	49.0	51.6	53.7	55.0	56.9	57.1	57.3	57.6	57.8	58.0	58.4
0.25	29.8	38.4	42.3	44.5	50.6	51.2	53.8	56.0	57.3	59.2	59.3	59.5	59.8	60.1	60.3	60.6
0.1	35.1	45.7	50.2	52.9	60.2	60.9	63.7	66.1	67.5	69.6	69.7	70.0	70.3	70.6	70.8	71.1
0.05	36.7	48.6	53.9	57.2	65.6	66.4	69.4	72.1	73.6	75.8	75.9	76.2	76.5	76.8	77.0	77.3
0.025	37.9	50.2	56.2	60.0	70.1	71.1	74.6	77.5	79.1	81.4	81.5	81.8	82.1	82.4	82.6	82.9
0.01	38.3	50.8	57.2	61.5	72.6	73.7	77.5	80.6	82.2	84.9	85.0	85.3	85.6	85.9	86.1	86.4
0.005	38.4	51.2	57.9	62.3	74.3	75.5	79.8	83.2	84.9	87.7	87.9	88.1	88.5	88.8	89.0	89.3
0.0025	38.6	51.4	58.2	62.9	75.7	77.0	81.6	85.3	87.1	90.3	90.5	90.9	91.2	91.5	91.7	92.0
0.001	38.6	51.4	58.2	63.0	76.5	77.9	83.0	87.2	89.0	92.8	93.0	93.3	93.7	93.9	94.1	94.5
0.0005	38.6	51.4	58.2	63.1	76.7	78.2	83.5	88.0	89.9	94.1	94.4	94.7	95.1	95.4	95.6	96.0
0.00025	38.6	51.4	58.2	63.1	76.7	78.2	83.6	88.6	90.7	95.4	95.7	96.2	96.6	96.9	97.1	97.5
0.0001	38.6	51.4	58.2	63.1	76.7	78.2	83.7	88.7	90.9	96.1	96.4	96.9	97.3	97.8	98.0	98.4
0.00005	38.6	51.4	58.2	63.1	76.7	78.2	83.7	88.7	90.9	96.3	96.6	97.2	97.7	98.3	98.7	99.6
0.000025	38.6	51.4	58.2	63.1	76.7	78.2	83.7	88.7	90.9	96.3	96.7	97.3	97.8	98.5	99.0	100.0
0.00001	38.6	51.4	58.3	63.1	76.8	78.2	83.7	88.7	90.9	96.4	96.7	97.3	97.9	98.5	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6637

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

CEILING (FEET)		VISIBILITY (STATUTE MILES)															
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
1000	12.7	16.2	18.6	20.2	25.6	27.3	27.7	29.6	30.2	33.0	33.2	33.6	34.7	34.6	36.4	38.6	
900	14.1	17.9	20.6	22.4	27.7	29.4	30.0	31.8	32.5	35.3	35.4	35.8	36.2	37.0	39.0	39.3	
800	14.1	17.8	20.6	22.4	27.7	29.4	30.0	31.8	32.5	35.3	35.4	35.8	36.2	37.0	39.0	39.3	
700	14.1	17.8	20.6	22.4	27.7	29.4	30.0	31.8	32.5	35.3	35.4	35.8	36.2	37.0	39.0	39.3	
600	14.1	18.1	20.4	22.6	28.0	29.7	30.2	32.1	32.8	35.6	35.7	36.1	36.5	37.3	39.3	39.5	
500	14.6	19.0	21.8	23.6	28.9	30.9	31.4	33.3	34.0	36.8	36.9	37.3	37.7	38.5	40.5	40.7	
400	15.1	19.4	22.2	24.0	29.4	31.4	32.1	34.4	35.0	37.8	37.9	38.3	38.7	39.5	41.5	41.8	
300	15.7	20.5	23.3	25.2	30.9	33.0	33.6	36.4	37.1	40.1	40.2	40.6	41.1	41.9	43.9	44.2	
200	15.8	20.6	23.4	25.4	31.2	33.3	33.8	36.6	37.3	40.3	40.5	40.9	41.4	42.2	44.2	44.5	
100	15.8	20.8	23.6	25.6	31.3	33.4	34.0	36.8	37.4	40.5	40.6	41.0	41.5	42.3	44.3	44.6	
0	16.2	21.6	24.4	26.4	32.2	34.4	34.9	37.7	38.3	41.5	41.7	42.1	42.6	43.5	45.5	45.8	
1000	19.6	26.0	28.9	31.0	37.3	39.4	40.1	43.1	43.8	47.4	47.5	47.9	48.5	49.4	51.4	51.7	
900	22.8	29.6	32.5	34.9	41.3	43.4	44.1	47.4	48.1	51.8	51.9	52.3	52.9	53.8	55.8	56.1	
800	23.6	31.3	34.2	36.6	43.0	45.1	45.8	49.1	49.8	53.7	53.8	54.2	54.7	55.7	57.7	57.9	
700	27.0	35.7	38.7	42.1	48.7	50.9	51.5	55.0	55.7	59.7	59.8	60.2	60.7	61.8	63.8	64.0	
600	30.0	39.0	42.1	45.4	52.2	54.3	55.0	58.7	59.4	63.4	63.5	63.9	64.4	65.5	67.5	67.8	
500	31.6	41.4	45.0	48.3	55.4	57.5	58.2	62.1	62.7	66.7	66.8	67.2	67.8	68.8	70.8	71.1	
400	32.1	42.1	45.8	49.4	56.7	58.9	59.5	63.4	64.1	68.0	68.2	68.6	69.1	70.2	72.2	72.4	
300	32.4	44.1	48.3	52.6	61.3	63.5	64.4	68.4	69.1	73.5	73.6	74.0	74.6	75.6	77.6	77.9	
200	33.8	47.1	51.7	57.0	67.0	69.2	70.4	75.2	75.9	80.6	80.7	81.1	81.6	82.7	84.7	85.0	
100	34.2	48.5	53.4	59.5	70.3	73.0	74.4	79.4	80.2	85.0	85.1	85.5	86.0	87.1	89.1	89.3	
0	34.2	48.5	53.4	59.7	71.8	73.5	75.4	80.3	81.1	85.9	86.0	86.4	87.0	88.1	90.1	90.4	
1000	34.2	48.5	53.4	60.1	71.4	74.0	76.3	81.6	82.4	87.7	87.9	88.3	88.8	90.0	92.0	92.0	
900	34.2	48.5	53.4	60.2	71.6	74.3	76.7	82.3	83.1	88.4	88.5	88.9	89.5	90.7	92.7	92.9	
800	34.2	48.5	53.5	60.5	72.0	74.7	77.1	82.7	83.5	89.2	89.3	89.7	90.3	91.5	93.5	93.7	
700	34.2	48.5	53.5	60.5	72.6	75.5	78.3	84.0	85.1	91.1	91.2	91.7	92.3	93.5	95.5	95.7	
600	34.2	48.5	53.5	60.5	72.6	75.5	79.1	85.8	86.8	93.2	93.3	93.9	94.4	95.7	97.7	98.0	
500	34.2	48.5	53.5	60.5	72.6	75.5	79.1	85.8	87.1	93.7	93.9	94.4	94.9	96.7	98.7	98.9	
400	34.2	48.5	53.5	60.5	72.6	75.5	79.1	85.8	87.1	93.9	94.0	94.5	95.1	97.1	99.2	99.6	
300	34.2	48.5	53.5	60.5	72.6	75.5	79.1	85.8	87.1	93.9	94.0	94.7	95.2	97.2	99.3	99.9	
200	34.2	48.5	53.5	60.5	72.6	75.5	79.1	85.8	87.1	93.9	94.7	94.7	95.2	97.2	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 751

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1300-0500

	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
1-140	11.2	14.6	16.6	17.3	21.1	21.4	23.4	25.2	26.2	29.1	29.2	29.2	29.7	30.3	31.2	31.2	
1-140	12.4	15.8	18.1	18.7	23.1	23.5	25.5	27.4	28.3	31.2	31.3	31.3	31.9	32.4	33.3	33.3	
1-140	12.4	15.8	18.1	18.7	23.1	23.5	25.5	27.4	28.3	31.2	31.3	31.3	31.9	32.4	33.3	33.3	
1-140	12.4	15.8	18.1	18.7	23.1	23.5	25.5	27.4	28.3	31.2	31.3	31.3	31.9	32.4	33.3	33.3	
1-140	12.4	15.8	18.1	18.7	23.1	23.5	25.5	27.4	28.3	31.2	31.3	31.3	31.9	32.4	33.3	33.3	
1-140	12.4	16.2	18.5	19.1	23.5	23.9	25.9	27.8	28.7	31.6	31.7	31.7	32.3	32.8	33.7	33.7	
1-140	13.0	16.7	19.1	19.8	24.2	24.6	26.7	28.6	29.5	32.4	32.5	32.5	33.1	33.6	34.5	34.5	
1-140	13.3	17.0	19.5	20.2	25.0	25.4	27.5	29.3	30.3	33.2	33.3	33.3	33.9	34.4	35.3	35.3	
1-140	13.4	17.3	19.9	20.8	25.8	26.3	28.4	30.3	31.2	34.1	34.3	34.3	34.8	35.3	36.3	36.3	
1-140	13.5	17.4	20.1	21.0	26.3	26.8	29.0	30.8	31.7	34.7	34.8	34.8	35.3	35.9	36.8	36.8	
1-140	13.7	17.5	20.2	21.1	26.4	27.0	29.1	30.9	31.9	34.8	34.9	34.9	35.5	36.1	36.9	36.9	
1-140	14.3	18.7	21.4	22.3	27.8	28.3	30.5	32.4	33.3	36.4	36.5	36.5	37.1	37.6	38.5	38.5	
1-140	16.3	21.4	24.0	25.0	30.8	31.3	33.9	35.9	36.8	39.8	40.0	40.0	40.5	41.2	42.1	42.1	
1-140	18.9	24.6	28.2	29.5	35.3	35.9	38.8	40.9	41.8	45.3	45.4	45.4	45.9	46.6	47.5	47.5	
1-140	20.5	26.8	30.4	31.9	37.8	38.4	41.3	43.6	44.6	48.2	48.3	48.3	48.9	49.5	50.5	50.5	
1-140	24.2	31.2	35.1	36.7	43.2	43.7	46.6	48.9	50.2	53.8	53.9	54.2	54.7	55.4	56.3	56.3	
1-140	27.6	34.7	38.5	40.1	46.6	47.1	50.1	52.3	53.7	57.2	57.4	57.6	58.2	58.8	59.8	59.8	
1-140	29.9	38.1	42.5	45.2	51.9	52.5	55.4	57.6	59.0	62.5	62.8	63.1	63.6	64.3	65.2	65.2	
1-140	30.4	38.8	43.4	46.2	53.4	53.9	56.8	59.1	60.4	64.0	64.3	64.5	65.1	65.7	66.7	66.7	
1-140	31.7	41.2	46.2	49.5	58.6	59.1	62.0	64.7	66.0	70.0	70.3	70.5	71.0	71.7	72.6	72.6	
1-140	32.8	44.0	49.1	53.1	63.2	63.9	67.1	70.4	71.7	75.8	76.1	76.4	76.9	77.6	78.5	78.5	
1-140	33.5	45.4	51.1	56.2	68.0	68.8	73.2	76.6	78.4	82.6	82.9	83.1	83.7	84.3	85.3	85.3	
1-140	33.5	45.7	51.9	57.0	68.8	69.6	74.0	77.4	79.2	83.8	84.1	84.3	84.9	85.5	86.5	86.5	
1-140	33.7	46.2	52.5	57.5	69.6	70.4	75.6	79.3	81.0	86.1	86.3	86.6	87.1	87.8	88.7	88.7	
1-140	33.7	46.2	52.5	57.9	70.1	70.9	76.1	80.1	81.8	87.1	87.5	87.8	88.3	89.0	89.9	89.9	
1-140	33.7	46.2	52.5	58.0	70.3	71.0	76.2	80.3	82.2	87.6	88.0	88.3	88.8	89.5	90.4	90.4	
1-140	33.7	46.2	52.5	58.0	70.8	71.6	77.6	82.1	84.1	89.9	90.3	90.6	91.1	91.8	92.7	92.7	
1-140	33.7	46.2	52.5	58.0	70.8	71.6	77.6	82.3	84.3	90.6	91.0	91.2	91.8	92.4	93.5	93.5	
1-140	33.7	46.2	52.5	58.0	70.8	71.6	77.7	82.9	85.0	91.6	92.0	92.3	92.8	94.0	95.1	95.5	
1-140	33.7	46.2	52.5	58.0	70.8	71.6	77.7	82.9	85.0	92.3	92.7	93.2	93.8	95.2	96.7	97.3	
1-140	33.7	46.2	52.5	58.0	70.8	71.6	77.7	82.9	85.0	92.6	93.2	93.9	94.6	96.1	97.6	98.9	
1-140	33.7	46.2	52.5	58.0	70.8	71.6	77.7	82.9	85.0	92.8	93.5	94.2	94.8	96.4	98.4	100.0	

TOTAL NUMBER OF OBSERVATIONS

753

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY STATISTICAL VALUES															
	210	20	25	24	21	20	27	27	21	2	24	2	27	25	27	27
NO. OF 2 2000	7.3	9.7	12.6	13.5	16.3	16.4	18.1	19.2	20.4	22.6	23.1	23.1	23.3	23.3	24.1	24.3
2 2000	8.9	11.2	14.3	15.3	18.4	18.5	20.5	21.6	22.8	25.1	25.8	25.8	25.9	25.9	26.7	27.0
2 2000	9.1	11.4	14.4	15.5	18.5	18.7	20.6	21.7	22.9	25.3	25.9	25.9	26.1	26.1	27.0	27.2
2 2000	9.1	11.4	14.4	15.5	18.5	18.7	20.6	21.7	22.9	25.3	25.9	25.9	26.1	26.1	27.0	27.2
2 2000	9.1	11.4	14.4	15.5	18.5	18.7	20.6	21.7	22.9	25.3	25.9	25.9	26.1	26.1	27.0	27.2
2 2000	9.3	11.6	14.7	15.7	18.8	18.9	20.9	22.0	23.1	25.5	26.2	26.2	26.3	26.3	27.2	27.5
2 2000	9.7	12.3	15.5	16.5	19.7	19.8	21.8	22.9	24.1	26.5	27.1	27.1	27.2	27.2	28.2	28.4
2 2000	9.7	12.3	15.5	16.5	20.0	20.1	22.1	23.1	24.3	26.7	27.4	27.4	27.5	27.5	28.4	28.7
2 2000	10.4	13.1	16.4	17.9	21.6	21.7	23.7	25.3	26.5	28.8	29.5	29.5	29.8	29.8	30.7	31.0
2 2000	10.6	13.2	16.5	18.1	21.8	22.0	23.9	25.5	26.7	29.1	29.8	29.8	30.0	30.0	31.0	31.2
2 2000	10.6	13.4	16.7	18.3	22.0	22.1	24.1	25.7	26.9	29.2	29.9	29.9	30.2	30.2	31.1	31.3
2 2000	11.0	14.3	17.6	19.2	23.0	23.1	25.4	27.0	28.2	30.6	31.2	31.2	31.5	31.5	32.4	32.7
2 2000	12.2	15.7	19.0	20.6	25.3	25.4	27.8	29.5	30.7	33.1	33.9	33.9	34.1	34.1	35.1	35.3
2 2000	14.6	18.5	22.2	24.1	29.4	29.6	32.7	34.4	35.6	38.1	38.9	38.9	39.2	39.3	40.2	40.5
2 2000	16.7	20.9	24.6	26.7	32.4	32.7	35.7	38.1	39.6	42.1	42.9	42.9	43.1	43.3	44.2	44.4
2 2000	19.4	24.2	28.4	31.1	37.8	38.1	41.3	43.7	45.6	48.4	49.2	49.5	49.7	50.0	51.1	51.3
2 2000	23.5	28.8	33.2	36.0	42.9	43.1	46.4	48.9	50.9	53.8	54.6	54.9	55.2	55.4	56.5	56.7
2 2000	26.7	32.3	37.3	40.3	47.8	48.0	51.3	54.1	56.1	59.0	59.8	60.1	60.3	60.6	61.6	61.9
2 2000	27.1	33.3	38.8	41.9	49.7	50.0	53.3	56.1	58.1	61.0	61.8	62.0	62.3	62.6	63.6	63.9
2 2000	29.2	37.8	43.5	47.4	56.9	57.1	60.7	64.0	66.0	69.2	70.1	70.4	70.6	70.9	72.0	72.2
2 2000	29.6	39.7	45.1	49.3	60.3	61.1	65.1	68.5	70.6	74.5	75.4	75.7	75.9	76.2	77.2	77.5
2 2000	30.4	40.3	47.2	52.2	64.3	65.1	69.8	73.5	75.8	79.9	80.8	81.1	81.3	81.6	82.7	82.9
2 2000	30.6	40.9	47.5	52.5	64.8	66.0	71.2	75.1	77.4	81.9	82.8	83.1	83.3	83.6	84.7	84.9
2 2000	31.1	41.0	48.1	53.3	66.0	67.2	73.1	77.5	80.0	84.7	85.7	86.0	86.2	86.5	87.6	87.8
2 2000	31.1	41.0	48.1	53.3	66.3	67.5	73.5	78.7	81.3	87.2	88.2	88.5	88.8	89.0	90.1	90.3
2 2000	31.1	41.0	48.1	53.3	66.3	67.5	74.1	79.2	82.0	88.8	89.8	90.1	90.3	90.6	91.7	91.9
2 2000	31.1	41.0	48.1	53.3	66.7	67.9	74.5	79.9	82.7	89.8	90.9	91.3	91.5	92.1	93.4	93.7
2 2000	31.1	41.0	48.1	53.3	66.7	67.9	74.5	80.0	82.8	90.1	91.3	91.8	92.1	92.7	94.2	95.0
2 2000	31.1	41.0	48.1	53.3	66.7	67.9	74.5	80.0	82.8	90.5	91.9	92.5	92.7	93.7	95.5	96.4
2 2000	31.1	41.0	48.1	53.3	66.7	67.9	74.5	80.0	82.8	90.6	92.1	92.6	92.9	94.3	96.6	98.9
2 2000	31.1	41.0	48.1	53.3	66.7	67.9	74.5	80.0	82.8	90.7	92.2	92.7	93.0	94.7	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS 756

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	21	14	10	7	5	3	2	1.5	1	0.5	0.3	0.2	0.1	0
NO CEILING	6.2	9.1	11.2	13.1	17.3	17.9	20.2	21.0	22.8	24.4	24.7	24.9	24.9	24.9	25.2	25.3
≥2000	7.3	10.3	12.8	14.9	19.5	20.3	22.8	24.3	26.1	27.8	28.2	28.5	28.5	28.5	28.8	28.9
1800	7.3	10.3	12.8	14.9	19.5	20.3	22.8	24.3	26.1	28.0	28.4	28.6	28.6	28.8	29.0	29.2
1600	7.3	10.3	12.8	14.9	19.5	20.3	22.8	24.3	26.1	28.0	28.4	28.6	28.6	28.8	29.0	29.2
1400	7.3	10.3	12.8	14.9	19.5	20.3	22.8	24.3	26.1	28.0	28.4	28.6	28.6	28.8	29.0	29.2
1200	7.4	10.6	13.1	15.2	19.8	20.6	23.1	24.5	26.4	28.2	28.6	28.9	28.9	29.2	29.4	29.6
1000	7.9	11.1	13.9	16.0	20.6	21.4	24.0	25.5	27.3	29.2	29.6	29.8	29.8	30.1	30.3	30.5
800	7.9	11.1	13.9	16.0	20.6	21.4	24.0	25.5	27.4	29.3	29.7	29.9	29.9	30.2	30.5	30.6
600	9.1	12.4	15.2	17.3	22.3	23.1	25.9	27.6	29.6	31.7	32.1	32.3	32.3	32.7	33.0	33.1
400	9.4	12.7	15.4	18.1	23.1	23.9	26.6	28.4	30.3	32.5	32.8	33.1	33.1	33.5	33.8	33.9
200	9.5	12.8	15.6	18.2	23.2	24.0	26.8	28.5	30.5	32.6	33.0	33.2	33.2	33.6	33.9	34.0
100	10.6	14.2	17.2	19.9	25.1	25.9	28.6	30.5	32.5	34.6	35.0	35.2	35.2	35.6	35.9	36.0
50	10.8	15.0	17.9	21.0	26.5	27.6	30.3	32.2	34.2	36.3	36.7	36.9	36.9	37.3	37.6	37.7
25	12.1	17.0	19.9	23.1	29.3	30.3	33.1	35.0	36.9	39.1	39.4	39.7	39.7	40.1	40.4	40.5
15	14.1	19.8	22.8	25.9	32.6	33.6	36.4	38.4	40.4	42.7	43.3	43.5	43.5	43.9	44.2	44.3
10	16.9	23.4	26.8	30.3	38.5	39.7	42.9	45.0	47.2	50.5	51.2	51.7	51.7	52.1	52.4	52.5
5	20.1	27.6	31.3	35.0	43.7	45.0	48.3	50.5	52.8	56.1	56.7	57.3	57.3	57.7	57.9	58.0
3	22.4	30.7	35.0	38.9	48.2	49.5	52.9	55.3	57.5	60.9	61.6	62.1	62.1	62.5	62.8	62.9
2	23.2	31.8	36.0	40.2	50.0	51.3	54.7	57.1	59.4	62.9	63.6	64.1	64.1	64.5	64.8	64.9
1	24.4	34.2	38.7	43.3	55.1	56.7	60.7	63.3	65.7	69.4	70.2	70.8	70.8	71.2	71.6	71.8
0.5	26.1	37.5	42.3	47.1	61.2	63.5	67.4	70.2	73.0	77.0	77.8	78.5	78.5	78.9	79.3	79.4
0.3	26.4	38.3	43.5	48.3	64.0	66.4	70.6	73.6	76.6	81.0	81.8	82.8	82.8	83.2	83.6	83.8
0.2	26.4	38.3	43.7	48.4	64.6	67.3	71.5	74.7	77.7	82.5	83.2	84.3	84.3	84.7	85.1	85.2
0.1	26.5	38.7	44.3	49.2	66.2	69.0	73.7	77.2	80.3	85.6	86.5	87.6	87.6	88.3	88.9	89.1
0.05	26.5	38.7	44.3	49.2	66.9	69.7	74.7	78.8	82.2	87.6	88.5	89.6	89.7	90.4	91.0	91.2
0.03	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.6	83.4	89.3	90.8	91.8	92.0	92.7	93.4	93.5
0.02	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.7	83.9	89.8	91.4	92.6	92.9	93.8	94.5	94.6
0.01	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.8	84.2	90.6	92.2	93.4	93.7	94.7	95.4	95.5
0.005	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.8	84.6	91.2	92.7	94.2	94.5	95.6	96.3	96.6
0.003	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.9	84.7	91.7	93.5	95.0	95.5	97.2	98.2	98.8
0.002	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.9	84.7	91.8	93.7	95.1	95.6	97.6	98.7	100.0
0.001	26.5	38.7	44.3	49.2	67.3	70.1	75.2	79.9	84.7	91.8	93.7	95.1	95.6	97.6	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 758

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

ELEVATION FEET		VISIBILITY STATES MILES															
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	1000	11.1	15.8	17.1	19.5	23.2	23.2	23.6	24.4	24.8	25.3	25.3	25.5	25.5	25.5	25.5	25.5
2	1000	14.2	20.2	21.9	24.5	28.6	28.8	29.4	30.4	30.8	31.3	31.3	31.4	31.4	31.4	31.4	31.4
3	1000	14.5	20.4	22.1	24.8	28.9	29.0	29.7	30.6	31.0	31.6	31.6	31.7	31.7	31.7	31.7	31.7
4	1000	14.5	20.4	22.1	24.8	28.9	29.0	29.7	30.6	31.0	31.6	31.6	31.7	31.7	31.7	31.7	31.7
5	1000	14.5	20.4	22.1	24.8	28.9	29.0	29.7	30.6	31.0	31.6	31.6	31.7	31.7	31.7	31.7	31.7
6	1000	14.7	20.8	22.5	25.2	29.3	29.4	30.1	31.2	31.6	32.1	32.1	32.2	32.4	32.4	32.4	32.4
7	1000	15.4	21.5	23.2	25.9	30.0	30.1	30.8	31.8	32.2	32.8	32.8	32.9	33.0	33.0	33.0	33.0
8	1000	15.5	21.6	23.3	26.3	30.5	30.6	31.4	32.5	32.9	33.4	33.4	33.6	33.7	33.7	33.7	33.7
9	1000	17.2	24.0	25.7	28.6	33.7	33.8	34.7	35.8	36.2	36.7	36.7	37.1	37.4	37.4	37.4	37.4
10	1000	17.5	24.3	26.0	29.3	34.4	34.5	35.5	36.6	37.0	37.5	37.5	37.9	38.2	38.2	38.2	38.2
11	1000	17.5	24.4	26.1	29.4	34.5	34.6	35.7	36.7	37.1	37.7	37.7	38.1	38.3	38.3	38.3	38.3
12	1000	19.1	26.4	28.1	31.4	36.9	37.0	38.1	39.1	39.5	40.1	40.1	40.5	40.7	40.7	40.7	40.7
13	1000	21.1	28.6	30.5	33.8	39.3	39.4	40.5	41.5	41.9	42.4	42.4	42.8	43.1	43.1	43.1	43.1
14	1000	22.5	30.9	33.0	36.3	42.4	42.6	43.6	44.7	45.2	45.8	45.8	46.2	46.4	46.4	46.4	46.4
15	1000	25.2	34.6	36.7	40.2	46.3	46.4	47.5	48.5	49.1	49.6	49.6	50.0	50.3	50.3	50.3	50.3
16	1000	28.8	39.5	41.9	46.2	53.6	53.8	55.3	56.5	57.4	58.2	58.2	58.6	58.9	58.9	58.9	58.9
17	1000	30.5	42.3	45.0	49.3	57.3	57.6	59.0	60.2	61.1	61.9	61.9	62.3	62.6	62.6	62.6	62.6
18	1000	34.1	46.4	49.5	54.0	62.9	63.3	64.7	66.0	67.1	68.2	68.2	68.7	69.0	69.0	69.0	69.0
19	1000	34.1	46.8	49.9	54.4	63.5	63.9	65.4	66.7	67.8	68.8	69.0	69.5	69.8	69.8	69.8	69.8
20	1000	35.9	49.3	52.8	58.1	69.4	70.0	72.1	73.9	75.1	76.4	76.5	77.3	77.7	77.9	77.9	77.9
21	1000	37.4	51.9	55.7	61.0	74.7	75.6	78.1	80.0	81.3	82.6	82.8	83.6	84.0	84.1	84.1	84.1
22	1000	38.1	52.8	56.6	61.9	78.2	79.6	82.1	84.0	85.3	86.6	86.7	87.7	88.1	88.2	88.2	88.2
23	1000	38.2	53.1	56.9	62.2	79.2	80.5	83.0	84.9	86.2	87.5	87.7	88.6	89.0	89.1	89.1	89.1
24	1000	38.2	53.3	57.3	62.7	80.6	82.0	85.0	87.3	88.7	90.7	90.8	91.8	92.2	92.3	92.3	92.3
25	1000	38.2	53.3	57.3	62.9	81.7	83.2	86.5	88.9	90.5	92.8	93.1	94.0	94.4	94.6	94.6	94.6
26	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.5	91.5	94.4	94.8	95.8	96.2	96.3	96.3	96.3
27	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.9	92.3	95.8	96.4	97.6	98.0	98.1	98.1	98.1
28	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.9	92.4	96.4	97.2	98.5	98.9	99.1	99.1	99.1
29	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.9	92.6	96.6	97.6	99.1	99.5	99.6	99.6	99.6
30	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.9	92.7	96.9	98.0	99.5	99.9	100.0	100.0	100.0
31	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.9	92.7	96.9	98.0	99.5	99.9	100.0	100.0	100.0
32	1000	38.2	53.3	57.3	62.9	82.0	83.6	87.0	89.9	92.7	96.9	98.0	99.5	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 754

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 142 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

1500-1700

CEILING (FEET)		VISIBILITY (STATUTE MILES)															
		20	26	31	34	37	40	43	46	49	52	55	58	61	64	67	70
1	1000	13.4	19.4	21.2	23.8	28.0	28.0	28.0	28.0	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
2	800	18.4	25.4	27.4	30.2	35.2	35.2	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
3	600	18.4	25.8	27.8	31.6	35.6	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
4	400	19.7	26.1	28.1	30.8	35.8	35.8	35.8	35.8	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
5	200	19.4	26.6	28.6	31.3	36.4	36.4	36.4	36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
6	100	20.0	27.4	29.4	32.3	37.4	37.4	37.4	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
7	50	20.6	28.3	30.4	33.5	38.8	38.8	38.8	38.8	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
8	30	20.6	28.3	30.4	33.5	39.0	39.0	39.0	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
9	15	22.4	30.6	32.8	35.8	41.8	41.8	41.8	41.8	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1
10	5	23.3	31.5	34.0	37.3	43.5	43.5	43.5	43.5	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9
11	3	23.5	31.7	34.4	37.7	43.9	43.9	43.9	43.9	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3
12	1	24.6	33.1	35.8	39.2	45.4	45.4	45.4	45.4	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8
13	0	25.5	34.5	37.3	40.6	46.8	46.8	46.8	46.8	47.0	47.5	47.5	47.5	47.5	47.5	47.5	47.5
14	0	26.9	36.2	39.0	42.5	49.1	49.1	49.1	49.1	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.7
15	0	30.3	40.9	43.8	47.5	54.4	54.4	54.4	54.4	54.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0
16	0	35.7	47.6	51.1	55.2	63.9	63.9	63.9	63.9	64.3	64.9	64.9	64.9	64.9	64.9	64.9	64.9
17	0	38.4	50.8	55.0	59.4	68.4	68.5	68.5	68.5	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
18	0	40.9	53.8	58.3	62.7	72.2	72.4	72.5	72.5	72.9	73.7	73.7	73.7	73.7	73.7	73.7	73.7
19	0	41.5	54.8	59.4	63.9	74.1	74.2	74.5	74.5	74.9	75.7	75.7	75.7	75.7	75.7	75.7	75.7
20	0	43.7	57.5	62.6	67.6	79.1	79.2	79.8	80.4	80.8	81.7	81.9	81.9	81.9	82.1	82.1	82.1
21	0	44.6	58.7	64.0	69.2	84.1	84.3	85.3	86.2	86.8	88.2	88.6	88.6	88.6	88.9	88.9	88.9
22	0	44.7	59.3	65.1	70.5	87.0	87.2	88.4	89.4	90.1	91.7	92.1	92.1	92.1	92.3	92.3	92.3
23	0	44.7	59.3	65.1	70.5	87.7	87.8	89.2	90.2	91.0	92.7	93.1	93.1	93.1	93.4	93.4	93.4
24	0	44.7	59.5	65.6	71.0	89.3	89.4	91.0	92.2	93.1	95.4	95.8	95.8	95.8	96.0	96.2	96.2
25	0	44.7	59.5	65.7	71.2	89.6	90.1	91.7	92.9	94.2	96.7	97.1	97.1	97.1	97.4	97.5	97.5
26	0	44.7	59.5	65.7	71.2	89.7	90.2	91.8	93.0	94.4	97.4	97.8	97.9	98.0	98.3	98.4	98.4
27	0	44.7	59.5	65.7	71.2	89.7	90.2	91.8	93.4	95.1	98.3	98.9	99.1	99.2	99.5	99.6	99.6
28	0	44.7	59.5	65.7	71.2	89.7	90.2	91.8	93.4	95.1	98.5	99.2	99.3	99.5	99.7	99.9	99.9
29	0	44.7	59.5	65.7	71.2	89.7	90.2	91.8	93.4	95.1	98.5	99.3	99.5	99.6	99.9	100.0	100.0
30	0	44.7	59.5	65.7	71.2	89.7	90.2	91.8	93.4	95.1	98.5	99.3	99.5	99.6	99.9	100.0	100.0
31	0	44.7	59.5	65.7	71.2	89.7	90.2	91.8	93.4	95.1	98.5	99.3	99.5	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 756

2

CEILING VERSUS VISIBILITY

1 0140 RAMSTEIN AB DL

73-81

F E R

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS:

1900-2000

FEEDING FEET	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116
NEW FEEDING	15.1	19.2	21.2	23.9	28.2	28.8	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9	31.0	31.0	31.0
27000	18.3	23.2	25.5	28.5	33.4	34.1	35.7	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.6	36.6	36.6
27000	18.4	23.3	25.6	28.6	33.6	34.2	35.8	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.7	36.7	36.7
27000	18.7	23.7	26.1	29.0	34.0	34.6	36.2	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1
27000	19.1	24.3	26.5	29.6	34.5	35.1	36.7	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.7	37.7	37.7
27000	19.6	24.8	27.1	30.1	35.0	35.7	37.3	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.2	38.2	38.2
27000	20.3	26.0	28.2	31.3	36.2	36.9	38.5	39.3	39.3	39.4	39.4	39.4	39.4	39.4	39.5	39.5	39.5
27000	20.6	26.3	28.5	31.7	37.0	37.7	39.3	40.1	40.1	40.2	40.2	40.2	40.2	40.2	40.3	40.3	40.3
27000	22.4	28.6	31.0	34.5	40.6	41.2	42.8	43.6	43.6	43.8	43.8	43.8	43.8	43.8	43.9	43.9	43.9
27000	23.3	30.0	32.5	35.9	42.2	42.8	44.4	45.2	45.2	45.4	45.4	45.4	45.4	45.4	45.5	45.5	45.5
27000	23.5	30.5	33.0	36.5	42.7	43.4	45.0	45.8	45.8	45.9	45.9	45.9	45.9	45.9	46.0	46.0	46.0
27000	26.0	33.2	35.8	39.3	46.3	46.9	48.5	49.3	49.3	49.5	49.5	49.5	49.5	49.5	49.6	49.6	49.6
27000	27.9	35.8	38.5	42.2	49.5	50.1	51.7	52.5	52.5	52.8	52.8	52.8	52.8	52.8	52.9	52.9	52.9
27000	29.4	38.3	41.1	44.8	52.7	53.3	55.2	56.0	56.2	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.6
27000	30.2	39.1	42.7	46.8	55.2	55.8	57.7	58.5	58.8	59.0	59.3	59.3	59.3	59.3	59.4	59.4	59.4
27000	34.7	44.2	48.8	52.9	62.6	63.4	65.5	66.4	66.7	67.0	67.2	67.2	67.2	67.2	67.4	67.4	67.4
27000	36.1	46.8	51.7	56.1	66.6	67.4	69.5	70.4	70.7	71.0	71.2	71.2	71.2	71.2	71.4	71.4	71.4
27000	37.8	49.2	54.1	58.5	70.7	71.5	74.0	75.5	75.7	76.1	76.4	76.4	76.4	76.4	76.5	76.5	76.5
27000	38.9	50.5	55.4	60.1	72.5	73.3	76.3	77.7	78.0	78.4	78.6	78.6	78.6	78.6	78.8	78.8	78.8
27000	40.2	53.1	58.1	63.3	77.9	78.6	81.8	83.3	83.6	84.5	84.7	85.0	85.0	85.0	85.3	85.3	85.3
27000	40.6	54.1	59.4	65.0	80.8	82.5	85.9	87.4	87.8	89.1	89.5	89.8	89.8	89.8	90.1	90.1	90.1
27000	41.4	54.9	60.3	66.0	82.0	83.7	87.3	89.3	89.7	91.2	91.6	91.9	91.9	91.9	92.2	92.2	92.2
27000	41.6	55.2	60.6	66.3	82.8	84.5	88.1	90.1	90.6	92.2	92.6	92.8	92.8	92.8	93.1	93.1	93.1
27000	41.6	55.2	60.6	66.6	83.7	86.1	89.0	91.8	92.4	94.4	94.8	95.1	95.1	95.1	95.4	95.4	95.4
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.1	93.1	93.8	95.8	96.2	96.7	96.7	96.7	96.9	96.9	96.9
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.2	93.8	94.6	96.8	97.3	98.0	98.0	98.3	98.3	98.3	98.3
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.2	94.2	95.2	97.7	98.3	98.9	98.9	99.2	99.2	99.2	99.2
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.2	94.2	95.2	97.9	98.4	99.2	99.2	99.5	99.5	99.5	99.5
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.2	94.2	95.2	98.0	98.7	99.5	99.5	99.7	99.7	99.7	99.7
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.2	94.2	95.2	98.0	98.7	99.5	99.5	99.9	99.9	99.9	99.9
27000	41.6	55.2	60.7	66.7	84.5	87.3	91.2	94.2	95.2	98.0	98.7	99.5	99.5	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

754

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS & THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 0140
STATION

RAMSTEIN AB DL
STATION NAME

73-81
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
TIME PERIOD

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO. CEILING ≥ 20000	16.2	19.6	21.2	22.4	28.6	29.5	30.3	31.9	32.2	33.5	33.6	33.9	34.3	34.8	35.4	35.8
≥ 18000	18.7	21.9	24.0	25.4	31.6	32.7	33.5	35.5	35.8	37.1	37.2	37.5	37.9	38.5	39.1	39.5
≥ 16000	18.7	21.9	24.0	25.4	31.6	32.7	33.5	35.5	35.8	37.1	37.2	37.5	37.9	38.5	39.1	39.5
≥ 14000	18.2	22.0	24.2	25.5	31.8	32.8	33.6	35.6	35.9	37.2	37.4	37.7	38.1	38.6	39.3	39.7
≥ 12000	18.3	22.4	24.6	25.9	32.2	33.2	34.0	36.0	36.3	37.7	37.8	38.1	38.5	39.0	39.7	40.1
≥ 10000	18.8	23.2	25.4	26.7	33.0	34.3	35.2	37.2	37.5	38.9	39.0	39.3	39.7	40.2	40.9	41.3
≥ 9000	19.1	23.5	25.8	27.2	33.8	35.2	36.2	38.2	38.5	39.8	39.9	40.2	40.6	41.1	41.8	42.2
≥ 8000	20.3	24.8	27.1	28.6	35.1	36.6	37.5	39.9	40.2	41.5	41.7	41.9	42.3	42.9	43.5	43.9
≥ 7000	20.7	25.2	27.5	29.0	35.5	37.0	37.9	40.3	40.6	41.9	42.1	42.3	42.7	43.3	43.9	44.3
≥ 6000	20.7	25.4	27.6	29.1	35.6	37.1	38.1	40.5	40.7	42.1	42.2	42.5	42.9	43.4	44.0	44.5
≥ 5000	21.4	27.0	29.4	30.8	38.2	39.7	40.7	43.1	43.4	44.9	45.0	45.3	45.7	46.2	46.9	47.3
≥ 4500	23.5	29.9	32.3	33.8	41.3	42.7	44.1	46.6	47.0	48.6	48.7	49.0	49.4	49.9	50.6	51.0
≥ 4000	26.0	32.7	35.2	36.7	44.5	45.9	47.3	49.8	50.2	51.8	51.9	52.2	52.6	53.3	53.9	54.3
≥ 3500	27.5	35.0	37.5	39.8	47.9	49.4	50.7	53.3	53.7	55.3	55.4	55.7	56.1	56.7	57.4	57.8
≥ 3000	32.4	40.5	43.5	46.2	54.3	55.8	57.3	59.8	60.2	61.9	62.1	62.3	62.8	63.4	64.1	64.5
≥ 2500	33.4	41.8	45.4	48.2	56.9	58.5	59.9	62.8	63.2	65.0	65.2	65.4	65.8	66.5	67.2	67.6
≥ 2000	35.1	44.6	48.7	51.9	61.7	63.3	65.3	68.2	68.6	70.8	70.9	71.2	71.6	72.2	72.9	73.3
≥ 1800	35.9	45.8	49.9	53.3	63.6	65.2	67.2	70.1	70.5	72.6	72.8	73.0	73.4	74.1	74.8	75.2
≥ 1500	38.1	49.3	53.7	57.4	69.6	71.6	73.6	76.8	77.2	79.7	80.0	80.4	80.8	81.4	82.1	82.5
≥ 1200	39.0	51.3	55.9	59.8	72.9	75.8	78.2	81.8	82.2	84.9	85.2	85.6	86.0	86.6	87.3	87.7
≥ 1000	39.5	52.1	57.0	60.9	75.0	78.5	81.3	85.3	85.7	88.5	88.8	89.2	89.6	90.3	90.9	91.3
≥ 900	39.5	52.1	57.0	60.9	75.7	79.2	82.1	86.2	86.6	89.7	90.0	90.4	90.8	91.5	92.1	92.5
≥ 800	39.9	52.6	57.7	61.7	77.0	80.5	83.6	87.7	88.1	91.7	92.0	92.4	92.8	93.5	94.1	94.5
≥ 700	39.9	52.6	57.7	61.8	77.2	81.0	84.5	88.8	89.2	92.8	93.1	93.5	93.9	94.5	95.2	95.6
≥ 600	39.9	52.6	57.8	61.9	77.8	81.7	85.2	89.6	90.0	94.3	94.5	94.9	95.3	96.0	96.7	97.1
≥ 500	39.9	52.6	57.8	61.9	77.8	82.1	86.2	90.8	91.3	95.6	95.9	96.5	96.9	97.6	98.3	98.7
≥ 400	39.9	52.6	57.8	61.9	77.8	82.1	86.2	91.2	91.7	96.4	96.7	97.3	97.7	98.5	99.2	99.6
≥ 300	39.9	52.6	57.8	61.9	77.8	82.1	86.2	91.2	91.7	96.5	96.8	97.5	97.9	98.8	99.5	99.9
≥ 200	39.9	52.6	57.8	61.9	77.8	82.1	86.2	91.2	91.7	96.5	96.8	97.5	97.9	98.8	99.5	99.9
≥ 100	39.9	52.6	57.8	61.9	77.8	82.1	86.2	91.2	91.7	96.5	96.8	97.5	97.9	98.8	99.5	100.0
≥ 0	39.9	52.6	57.8	61.9	77.8	82.1	86.2	91.2	91.7	96.5	96.8	97.5	97.9	98.8	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 749

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 0140 RAMSTEIN AB DL

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO CEILING	11.6	15.5	17.5	19.2	23.5	24.1	25.2	26.3	26.9	28.4	28.5	28.7	28.8	29.1	29.6	29.7
2 20000	13.9	18.2	20.6	22.5	27.2	27.8	29.1	30.3	31.0	32.4	32.6	32.8	32.9	33.2	33.8	33.9
2 18000	14.0	18.3	20.7	22.6	27.3	27.9	29.2	30.4	31.1	32.6	32.8	32.9	33.1	33.3	33.9	34.1
2 16000	14.1	18.4	20.8	22.7	27.4	28.0	29.3	30.5	31.2	32.7	32.8	33.0	33.2	33.4	34.0	34.2
2 14000	14.2	18.6	20.9	22.8	27.5	28.2	29.4	30.7	31.3	32.8	33.0	33.1	33.3	33.6	34.2	34.3
2 12000	14.5	19.0	21.3	23.3	28.0	28.6	29.9	31.1	31.8	33.3	33.5	33.6	33.8	34.1	34.7	34.8
2 10000	15.0	19.8	22.2	24.1	28.4	29.6	30.9	32.2	32.8	34.3	34.5	34.6	34.8	35.1	35.7	35.8
2 9000	15.2	19.9	22.4	24.4	29.4	30.1	31.4	32.8	33.4	34.9	35.1	35.3	35.5	35.7	36.3	36.5
2 8000	16.4	21.4	23.9	26.1	31.5	32.2	33.5	35.1	35.8	37.3	37.5	37.7	37.9	38.2	38.8	39.0
2 7000	16.8	21.9	24.4	26.8	32.2	33.0	34.3	35.9	36.6	38.2	38.3	38.5	38.7	39.0	39.6	39.8
2 6000	16.8	22.1	24.6	27.0	32.4	33.2	34.6	36.1	36.8	38.4	38.6	38.7	39.0	39.3	39.9	40.0
2 5000	17.9	23.5	26.2	28.6	34.3	35.1	36.5	38.1	38.7	40.4	40.6	40.7	41.0	41.3	41.9	42.0
2 4500	19.6	25.9	28.6	31.0	37.1	37.8	39.4	41.0	41.7	43.5	43.7	43.8	44.1	44.4	45.0	45.2
2 4000	21.6	28.5	31.4	34.0	40.5	41.3	43.0	44.6	45.4	47.2	47.4	47.6	47.9	48.2	48.8	48.9
2 3500	23.5	31.0	34.1	36.9	43.7	44.5	46.2	48.0	48.8	50.7	50.9	51.1	51.4	51.7	52.3	52.4
2 3000	27.3	35.8	39.3	42.6	50.3	51.2	53.0	54.9	55.9	58.1	58.3	58.6	58.8	59.2	59.8	60.0
2 2500	29.9	39.0	42.8	46.2	54.3	55.2	57.1	59.0	60.1	62.2	62.5	62.8	63.0	63.4	64.0	64.2
2 2000	32.3	42.1	46.3	50.0	58.8	59.7	61.8	63.9	64.9	67.2	67.5	67.8	68.0	68.4	69.1	69.2
2 1800	32.9	43.0	47.3	51.2	60.4	61.3	63.5	65.6	66.6	68.9	69.2	69.5	69.8	70.2	70.8	70.9
2 1500	34.4	45.8	50.5	54.9	66.0	67.0	69.4	71.8	72.9	75.5	75.9	76.3	76.6	77.0	77.6	77.8
2 1200	35.5	47.9	52.9	57.7	70.5	72.0	74.7	77.5	78.7	81.6	82.0	82.4	82.7	83.1	83.8	83.9
2 1000	36.0	48.9	54.3	59.4	73.6	75.3	78.4	81.4	82.7	85.8	86.2	86.7	86.9	87.4	88.0	88.2
2 900	36.1	49.0	54.5	59.7	74.3	76.0	79.3	82.4	83.7	87.0	87.4	87.9	88.1	88.6	89.3	89.4
2 800	36.2	49.4	54.9	60.3	75.5	77.3	81.0	84.3	85.8	89.5	90.0	90.4	90.7	91.2	91.9	92.0
2 700	36.2	49.4	55.0	60.4	76.0	78.0	81.8	85.3	86.9	90.9	91.4	91.9	92.1	92.7	93.3	93.5
2 600	36.2	49.4	55.0	60.5	76.2	78.2	82.2	85.9	87.6	92.0	92.6	93.1	93.4	93.9	94.6	94.8
2 500	36.2	49.4	55.0	60.5	76.4	78.5	82.7	86.7	88.6	93.4	94.0	94.6	95.0	95.5	96.2	96.3
2 400	36.2	49.4	55.0	60.5	76.4	78.5	82.8	87.1	89.1	94.2	94.9	95.5	95.8	96.5	97.2	97.3
2 300	36.2	49.4	55.0	60.5	76.4	78.5	82.8	87.1	89.3	94.5	95.3	96.0	96.3	97.1	97.9	98.1
2 200	36.2	49.4	55.0	60.5	76.4	78.5	82.8	87.1	89.3	94.8	95.6	96.4	96.7	97.7	98.6	99.0
2 100	36.2	49.4	55.0	60.5	76.4	78.5	82.8	87.1	89.3	94.9	95.7	96.5	96.9	98.0	98.9	99.7
2 0	36.2	49.4	55.0	60.5	76.4	78.5	82.8	87.1	89.3	94.9	95.8	96.6	96.9	98.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 6031

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	210	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	21.0	25.8	26.8	27.5	31.1	31.2	31.6	31.8	31.9	32.4	32.4	32.7	33.7	34.0	34.2	35.0
2 20000	25.3	30.6	31.7	32.3	36.5	36.9	37.6	38.0	38.4	39.0	39.0	39.3	39.6	40.6	40.7	41.6
18000	25.3	30.6	31.7	32.3	36.5	36.9	37.6	38.0	38.4	39.0	39.0	39.3	39.6	40.6	40.7	41.6
16000	25.3	30.6	31.7	32.3	36.5	36.9	37.6	38.0	38.4	39.0	39.0	39.3	39.6	40.6	40.7	41.6
14000	25.3	30.6	31.7	32.3	36.5	36.9	37.6	38.0	38.4	39.0	39.0	39.3	39.6	40.6	40.7	41.6
12000	25.3	30.7	31.8	32.4	36.6	37.0	37.8	38.1	38.5	39.1	39.1	39.4	39.8	40.7	40.9	41.7
10000	26.9	32.4	33.5	34.3	38.6	39.0	39.8	40.2	40.6	41.4	41.4	41.6	42.0	43.1	43.2	44.1
9000	27.1	32.7	33.8	34.7	39.0	39.4	40.1	40.6	41.0	41.7	41.7	42.0	42.4	43.5	43.6	44.5
8000	28.1	34.2	35.7	36.5	41.2	41.7	42.5	43.0	43.4	44.1	44.1	44.3	44.7	45.8	46.0	46.8
7000	28.8	34.9	36.4	37.3	42.0	42.5	43.2	43.9	44.2	45.0	45.0	45.2	45.6	46.7	46.8	47.7
6000	29.1	35.3	36.8	37.6	42.4	42.9	43.6	44.2	44.6	45.3	45.3	45.6	46.0	47.1	47.2	48.1
5000	30.6	37.4	38.9	39.9	44.8	45.3	46.3	47.0	47.3	48.1	48.1	48.3	48.7	49.8	49.9	50.8
4500	34.2	42.1	43.9	45.1	51.4	51.9	53.3	54.0	54.4	55.2	55.2	55.4	55.8	56.9	57.0	57.9
4000	36.5	45.5	47.2	48.4	55.4	55.9	57.4	58.5	58.9	59.6	59.6	59.9	60.2	61.4	61.5	62.4
3500	40.5	50.6	52.5	53.9	61.0	61.5	63.0	64.1	64.5	65.2	65.2	65.5	65.8	67.0	67.1	68.0
3000	44.5	55.7	57.9	59.6	67.1	67.6	69.1	70.4	70.8	71.6	71.6	71.9	72.3	73.4	73.5	74.4
2500	47.0	58.3	60.6	62.6	70.2	70.7	72.2	73.5	73.9	74.7	74.7	75.0	75.4	76.5	76.6	77.5
2000	49.8	61.9	64.3	66.8	75.3	75.8	77.3	78.6	79.1	79.9	79.9	80.5	81.0	82.1	82.2	83.1
1800	50.2	62.5	65.0	67.5	75.9	76.6	78.1	79.5	80.0	80.7	80.7	81.4	81.9	83.0	83.1	84.0
1500	53.0	65.7	68.6	71.4	80.4	81.1	82.6	84.0	85.0	85.7	85.7	86.3	86.8	88.0	88.1	88.9
1200	55.4	68.6	71.4	74.3	83.5	84.2	85.7	87.5	88.6	89.3	89.3	89.9	90.4	91.6	91.7	92.5
1000	56.9	70.7	73.5	76.6	86.8	87.7	89.2	90.9	92.3	93.0	93.0	93.7	94.2	95.3	95.7	96.6
900	56.9	70.9	73.8	76.9	87.3	88.2	89.8	91.7	93.0	93.8	93.8	94.4	94.9	96.0	96.4	97.4
800	56.9	70.9	73.8	76.9	87.5	88.3	89.9	91.9	93.3	94.0	94.0	94.7	95.2	96.3	96.6	97.6
700	56.9	70.9	73.8	76.9	87.5	88.3	90.1	92.2	93.8	94.5	94.5	95.2	95.7	96.8	97.1	98.1
600	56.9	70.9	73.8	76.9	87.5	88.3	90.1	92.2	93.8	94.5	94.5	95.2	95.7	96.8	97.1	98.1
500	56.9	71.1	73.9	77.0	87.6	88.4	90.2	92.4	94.0	94.8	94.8	95.4	95.9	97.0	97.4	98.4
400	56.9	71.1	73.9	77.0	87.6	88.4	90.2	92.4	94.0	94.8	94.8	95.4	95.9	97.0	97.4	98.4
300	56.9	71.1	74.0	77.1	87.7	88.6	90.3	93.4	95.4	96.1	96.1	96.8	97.3	98.4	98.8	99.9
200	56.9	71.1	74.0	77.1	87.7	88.6	90.3	93.4	95.4	96.1	96.1	96.8	97.3	98.4	98.8	99.9
100	56.9	71.1	74.0	77.1	87.7	88.6	90.3	93.4	95.4	96.1	96.1	96.8	97.3	98.4	98.8	100.0
0	56.9	71.1	74.0	77.1	87.7	88.6	90.3	93.4	95.4	96.1	96.1	96.8	97.3	98.4	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 805

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ADG WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140
STATION

RAMSTEIN AB DL

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	17.1	21.3	22.7	22.9	24.8	24.9	26.2	27.1	27.1	27.2	27.2	27.2	27.3	28.1	28.3	29.8	
≥ 20000	20.7	26.2	27.7	27.9	30.4	30.8	32.5	33.5	33.8	34.0	34.2	34.2	34.3	35.3	35.5	37.0	
≥ 18000	20.7	26.2	27.7	27.9	30.4	30.8	32.5	33.5	33.8	34.0	34.2	34.2	34.3	35.3	35.5	37.0	
≥ 16000	20.7	26.2	27.7	27.9	30.4	30.8	32.5	33.5	33.8	34.0	34.2	34.2	34.3	35.3	35.5	37.0	
≥ 14000	20.7	26.2	27.7	27.9	30.4	30.8	32.5	33.5	33.8	34.0	34.2	34.2	34.3	35.3	35.5	37.0	
≥ 12000	20.8	26.3	27.9	28.2	30.7	31.0	32.8	33.8	34.0	34.3	34.4	34.4	34.5	35.5	35.8	37.3	
≥ 10000	21.2	26.7	28.3	28.6	31.2	31.5	33.3	34.3	34.5	34.8	34.9	34.9	35.0	36.0	36.3	37.8	
≥ 9000	21.3	26.8	28.4	28.7	31.3	31.7	33.4	34.4	34.7	34.9	35.0	35.0	35.2	36.2	36.4	37.9	
≥ 8000	22.7	28.9	30.5	30.8	33.4	33.8	35.5	36.8	37.0	37.7	37.8	37.8	37.9	39.0	39.4	41.1	
≥ 7000	23.1	29.6	31.2	31.5	34.2	34.5	36.3	37.5	37.8	38.4	38.5	38.5	38.7	39.8	40.1	41.9	
≥ 6000	23.1	29.7	31.3	31.7	34.3	34.7	36.4	37.8	38.0	38.7	38.8	38.8	38.9	40.0	40.4	42.1	
≥ 5000	25.2	32.8	34.4	34.9	38.0	38.4	40.4	41.8	42.0	42.6	42.8	42.8	43.0	44.3	44.6	46.4	
≥ 4500	27.9	36.2	37.8	38.4	42.4	42.9	45.4	46.8	47.0	47.8	47.9	47.9	48.1	49.5	49.9	51.6	
≥ 4000	31.5	40.9	42.8	43.5	47.8	48.4	50.9	52.5	53.0	53.9	54.0	54.0	54.2	55.6	56.0	57.7	
≥ 3500	33.8	43.4	45.4	46.1	50.8	51.2	53.7	55.4	55.9	56.7	56.9	56.9	57.4	58.7	59.2	61.0	
≥ 3000	36.9	46.8	49.5	50.4	55.5	56.1	58.6	60.2	60.8	61.7	61.8	61.8	62.3	63.7	64.2	66.0	
≥ 2500	40.5	51.1	53.9	54.9	60.7	61.8	64.5	66.1	66.7	67.6	67.7	67.7	68.2	69.6	70.1	71.8	
≥ 2000	44.4	55.6	58.5	59.9	66.1	67.3	70.2	71.8	72.4	73.6	73.7	73.7	74.2	75.6	76.1	77.8	
≥ 1800	45.5	56.9	59.7	61.1	67.3	68.6	71.4	73.2	73.8	74.9	75.1	75.1	75.6	76.9	77.4	79.2	
≥ 1500	48.6	60.6	64.1	65.8	73.3	74.6	77.6	79.3	79.9	81.2	81.3	81.3	81.8	83.2	83.7	85.4	
≥ 1200	53.1	65.2	68.7	70.4	78.3	79.6	82.5	84.3	84.9	86.2	86.3	86.3	86.8	88.2	88.7	90.4	
≥ 1000	54.1	66.6	70.1	72.2	80.9	82.2	85.7	87.5	88.2	89.4	89.5	89.5	90.0	91.4	91.9	93.9	
≥ 900	54.4	67.0	70.4	72.6	81.4	82.8	86.3	88.2	88.8	90.0	90.1	90.1	90.6	92.0	92.5	94.5	
≥ 800	54.7	67.5	70.9	73.1	81.9	83.3	87.2	89.2	89.8	91.1	91.3	91.3	91.8	93.1	93.6	95.6	
≥ 700	54.7	67.6	71.1	73.2	82.0	83.4	87.3	89.7	90.5	91.9	92.0	92.0	92.6	94.0	94.5	96.5	
≥ 600	54.7	67.6	71.1	73.2	82.3	83.7	87.9	90.4	91.3	92.6	92.8	92.8	93.4	94.9	95.4	97.4	
≥ 500	54.7	67.6	71.1	73.2	82.3	83.7	87.9	90.5	91.4	92.8	92.9	93.0	93.8	95.5	96.0	98.0	
≥ 400	54.7	67.6	71.1	73.2	82.3	83.7	87.9	90.8	91.6	93.0	93.1	93.3	94.0	95.8	96.3	98.3	
≥ 300	54.7	67.6	71.1	73.2	82.3	83.7	87.9	91.0	91.9	93.3	93.4	93.5	94.4	96.1	96.6	99.0	
≥ 200	54.7	67.6	71.1	73.2	82.3	83.7	87.9	91.0	91.9	93.3	93.4	93.5	94.4	96.4	97.0	99.6	
≥ 100	54.7	67.6	71.1	73.2	82.3	83.7	87.9	91.0	91.9	93.3	93.4	93.5	94.4	96.4	97.0	100.0	
≥ 0	54.7	67.6	71.1	73.2	82.3	83.7	87.9	91.0	91.9	93.3	93.4	93.5	94.4	96.4	97.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 802

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140
STATION

RAMSTEIN AB DL

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .001
NO CEILING	11.6	14.9	17.7	18.0	21.8	22.1	22.6	23.7	23.9	24.4	24.4	24.5	24.9	25.4	26.1	26.7
≥ 20000	14.4	18.5	21.1	22.1	26.1	26.3	27.3	29.0	29.4	30.1	30.4	30.7	31.1	31.7	32.6	33.2
≥ 18000	14.4	18.5	21.0	22.1	26.1	26.3	27.3	29.1	29.5	30.2	30.5	30.9	31.2	31.8	32.7	33.3
≥ 16000	14.4	18.5	21.0	22.1	26.1	26.3	27.3	29.1	29.5	30.2	30.5	30.9	31.2	31.8	32.7	33.3
≥ 14000	14.4	18.5	21.0	22.1	26.1	26.3	27.3	29.1	29.5	30.2	30.5	30.9	31.2	31.8	32.7	33.3
≥ 12000	14.6	18.9	21.3	22.4	26.5	26.7	27.7	29.6	30.0	30.7	31.0	31.3	31.7	32.3	33.2	33.8
≥ 10000	15.4	19.8	22.3	23.4	27.6	27.8	28.9	30.9	31.3	32.1	32.3	32.7	33.0	33.7	34.5	35.1
≥ 9000	15.7	20.1	22.8	23.9	28.0	28.3	29.4	31.3	32.0	32.8	33.0	33.4	33.8	34.5	35.4	36.0
≥ 8000	16.7	21.6	24.4	25.7	30.1	30.5	31.7	33.8	34.8	35.7	36.0	36.3	36.8	37.6	38.4	39.6
≥ 7000	17.4	22.3	25.1	26.5	31.1	31.5	32.8	35.0	36.0	37.1	37.3	37.7	38.3	39.0	39.9	40.5
≥ 6000	17.9	22.9	25.7	27.1	31.8	32.2	33.7	35.9	36.8	37.9	38.2	38.5	39.1	39.9	40.7	41.3
≥ 5000	19.9	25.2	28.2	29.6	34.8	35.1	36.6	38.9	40.0	41.1	41.5	42.0	42.7	43.7	44.5	45.1
≥ 4500	22.7	28.8	32.1	33.8	39.4	39.8	41.6	44.0	45.5	46.8	47.2	47.7	48.4	49.6	50.9	51.6
≥ 4000	25.6	32.3	36.2	38.0	44.1	44.8	46.8	49.5	51.0	52.4	52.9	53.5	54.3	55.6	56.8	57.6
≥ 3500	27.7	34.8	39.1	41.0	47.2	47.8	49.9	52.7	54.1	55.7	56.2	56.8	57.6	58.9	60.1	60.9
≥ 3000	29.3	37.1	41.6	43.5	50.1	50.7	52.8	55.6	57.1	58.7	59.1	59.8	60.5	61.8	63.0	63.9
≥ 2500	31.1	39.6	44.5	47.1	54.4	55.1	57.3	60.2	61.7	63.3	63.8	64.4	65.1	66.5	67.7	68.5
≥ 2000	35.4	44.3	49.1	51.8	60.1	61.1	64.1	67.2	68.7	70.4	70.9	71.5	72.2	73.5	74.8	75.6
≥ 1800	36.0	45.4	50.2	52.9	61.5	62.4	65.5	68.7	70.1	72.0	72.4	73.0	73.8	75.1	76.3	77.2
≥ 1500	38.2	48.2	53.5	56.3	66.3	67.3	70.6	73.9	75.4	77.4	77.9	78.5	79.3	80.7	82.0	82.8
≥ 1200	40.4	51.0	56.6	59.5	70.0	71.0	74.4	77.8	79.3	81.5	82.0	82.6	83.3	84.8	86.0	86.8
≥ 1000	41.5	52.4	58.3	61.5	73.0	74.0	77.4	81.1	82.9	85.5	86.0	86.6	87.3	88.8	90.0	91.0
≥ 900	42.1	52.9	58.8	62.0	73.9	74.9	78.4	82.1	83.9	86.5	87.0	87.7	88.4	89.9	91.1	92.1
≥ 800	42.2	53.3	59.1	62.3	74.6	75.6	79.4	83.3	85.1	87.8	88.3	89.0	89.8	91.3	92.6	93.5
≥ 700	42.2	53.4	59.3	62.6	75.0	76.1	80.2	84.4	86.2	88.9	89.4	90.2	91.0	92.6	93.8	94.8
≥ 600	42.2	53.4	59.3	62.6	75.2	76.5	80.9	85.0	87.0	89.6	90.1	91.0	91.7	93.3	94.5	95.5
≥ 500	42.2	53.4	59.3	62.6	75.2	76.5	81.1	85.5	87.4	90.4	90.9	92.0	92.9	94.5	95.7	96.7
≥ 400	42.2	53.4	59.3	62.6	75.2	76.5	81.1	85.7	87.9	90.9	91.3	92.4	93.4	95.0	96.2	97.2
≥ 300	42.2	53.4	59.3	62.6	75.2	76.5	81.1	85.7	87.9	90.9	91.5	92.6	93.8	95.4	96.7	98.3
≥ 200	42.2	53.4	59.3	62.6	75.2	76.5	81.1	85.7	87.9	90.9	91.5	92.7	93.9	95.5	97.0	99.0
≥ 100	42.2	53.4	59.3	62.6	75.2	76.5	81.1	85.7	87.9	90.9	91.5	92.7	93.9	95.5	97.1	99.9
≥ 0	42.2	53.4	59.3	62.6	75.2	76.5	81.1	85.7	87.9	90.9	91.5	92.7	94.0	95.6	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 820

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

ELEVATION FEET		AIR TEMPERATURE IN															
		20	26	20	24	20	22	21	2	2	2	2	2	2	2	2	2
1	100	8.6	12.2	13.0	14.5	18.7	19.2	19.8	20.3	21.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5
1	100	12.9	17.0	19.0	20.8	26.7	27.2	28.2	29.0	30.1	31.0	31.0	31.2	31.3	31.3	31.3	31.3
1	100	13.0	17.1	19.2	21.0	27.0	27.5	28.6	29.4	30.5	31.3	31.3	31.6	31.7	31.7	31.7	31.7
1	100	13.1	17.3	19.3	21.1	27.1	27.6	28.7	29.5	30.6	31.5	31.5	31.7	31.8	31.8	31.8	31.8
1	100	13.5	17.7	19.8	21.6	27.6	28.1	29.2	30.0	31.1	32.0	32.0	32.2	32.3	32.3	32.3	32.3
1	100	13.9	18.0	20.0	22.0	27.9	28.4	29.6	30.5	31.6	32.4	32.4	32.7	32.8	32.8	32.8	32.8
1	100	15.4	19.9	22.1	24.1	30.3	30.7	32.0	32.8	33.9	35.0	35.7	35.2	35.4	35.4	35.4	35.4
1	100	15.9	20.4	22.8	24.8	31.0	31.5	32.8	33.7	34.9	36.0	36.0	36.2	36.3	36.3	36.3	36.3
1	100	16.8	21.8	24.4	26.9	33.7	34.3	35.6	36.5	37.9	39.1	39.1	39.4	39.6	39.6	39.6	39.6
1	100	18.0	22.8	25.8	28.2	35.2	35.8	37.3	38.4	40.0	41.4	41.4	41.7	41.9	41.9	41.9	41.9
1	100	18.3	23.8	26.5	28.9	36.0	36.6	38.0	39.2	40.8	42.3	42.3	42.5	42.8	42.8	42.8	42.8
1	100	19.4	24.9	27.9	30.4	37.7	38.3	39.9	41.2	42.8	44.5	44.5	44.8	45.1	45.1	45.1	45.1
1	100	21.4	27.5	30.6	33.2	40.9	41.6	43.3	44.8	46.7	48.5	48.5	49.0	49.2	49.3	49.3	49.3
1	100	22.4	29.2	32.7	35.2	43.1	43.7	45.4	47.1	49.0	51.0	51.3	51.8	52.0	52.1	52.1	52.2
1	100	25.5	32.8	36.7	39.2	47.3	47.9	49.6	51.3	53.2	55.3	55.5	56.0	56.3	56.4	56.4	56.5
1	100	29.5	37.5	42.5	45.6	53.8	54.4	56.1	57.8	59.8	61.8	62.1	62.6	62.8	62.9	62.9	63.1
1	100	31.0	39.4	44.6	47.9	57.0	57.6	59.3	61.0	62.9	65.0	65.2	65.7	66.0	66.1	66.1	66.2
1	100	35.4	44.6	50.7	54.3	64.6	65.2	67.1	68.8	70.7	73.0	73.3	73.8	74.0	74.1	74.1	74.2
1	100	36.0	45.8	51.9	55.8	66.5	67.1	68.9	70.6	72.5	75.0	75.2	75.7	75.9	76.1	76.1	76.2
1	100	38.3	49.3	55.8	60.4	72.9	73.5	75.3	77.2	79.3	82.0	82.3	82.7	83.0	83.1	83.1	83.2
1	100	39.2	51.0	57.5	62.3	75.8	76.4	78.3	80.3	82.5	85.3	85.5	86.0	86.3	86.4	86.4	86.5
1	100	39.9	52.1	58.6	63.4	77.8	78.6	80.9	83.4	85.7	89.2	89.4	90.0	90.3	90.4	90.4	90.5
1	100	40.0	52.4	58.9	63.9	79.0	79.8	82.4	85.2	87.5	91.1	91.4	92.0	92.2	92.5	92.5	92.6
1	100	40.0	52.5	59.2	64.2	79.3	80.3	83.2	86.1	88.5	92.3	92.6	93.2	93.6	94.0	94.0	94.2
1	100	40.0	52.9	59.5	64.5	80.3	81.3	84.4	87.6	90.2	94.3	94.7	95.3	95.6	96.1	96.1	96.2
1	100	40.0	52.9	59.5	64.5	80.3	81.3	84.7	87.8	90.6	95.3	95.6	96.2	96.6	97.1	97.1	97.2
1	100	40.0	52.9	59.5	64.5	80.3	81.5	84.9	88.1	90.9	95.7	96.1	96.7	97.1	97.6	97.6	97.7
1	100	40.0	52.9	59.5	64.5	80.3	81.5	84.9	88.3	91.1	96.2	96.6	97.2	97.7	98.2	98.2	98.3
1	100	40.0	52.9	59.5	64.5	80.3	81.5	84.9	88.3	91.3	96.7	97.2	97.9	98.4	99.0	99.0	99.1
1	100	40.0	52.9	59.5	64.5	80.3	81.5	84.9	88.3	91.3	97.1	97.6	98.3	98.8	99.4	99.4	99.8
1	100	40.0	52.9	59.5	64.5	80.3	81.5	84.9	88.3	91.3	97.1	97.6	98.3	98.8	99.5	99.5	100.0
1	100	40.0	52.9	59.5	64.5	80.3	81.5	84.9	88.3	91.3	97.1	97.6	98.3	98.8	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 823

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

EYES FEET		VISIBILITY - STATUTE MILES															
		≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. OF OBS.		13.9	19.0	21.0	20.6	22.8	22.8	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
≥ 25000		20.0	26.1	27.3	28.4	31.6	31.6	32.0	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
≥ 18000		20.6	26.9	28.1	29.2	32.3	32.3	32.8	32.8	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 15000		20.6	26.9	28.1	29.2	32.3	32.3	32.8	32.8	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 12000		21.1	27.5	28.9	30.0	33.1	33.1	33.6	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 10000		21.4	28.1	29.8	30.8	34.0	34.0	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 9000		22.8	29.8	31.4	32.7	35.8	35.8	36.3	36.3	36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 8000		23.3	30.4	32.0	33.3	36.4	36.4	36.9	37.1	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 7000		24.0	31.2	33.9	35.5	39.2	39.4	39.9	40.1	40.2	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 6000		24.5	31.8	34.5	36.1	39.8	40.0	40.5	40.7	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 5000		24.7	32.2	34.8	36.5	40.1	40.4	40.8	41.1	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 4500		26.0	33.7	36.4	38.2	42.2	42.4	42.9	43.1	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 4000		28.4	36.9	39.6	41.6	46.0	46.3	46.9	47.2	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 3500		31.7	40.0	42.9	44.9	49.8	50.0	50.6	51.0	51.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 3000		35.9	46.9	50.2	52.7	57.6	57.8	58.4	58.8	59.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 2500		43.9	56.7	60.1	63.0	68.6	68.8	69.4	69.9	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 2000		47.0	61.2	64.7	67.7	73.9	74.1	74.7	75.2	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 1800		51.2	66.0	69.6	72.8	79.8	80.0	80.6	81.1	81.4	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1600		51.6	67.1	70.7	74.3	81.6	81.8	82.4	82.9	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 1400		54.2	70.4	74.3	78.1	87.3	87.7	88.3	88.8	89.2	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1200		56.1	72.8	77.2	81.2	91.1	91.4	92.0	92.5	93.3	94.0	94.0	94.0	94.1	94.1	94.1	94.1
≥ 1000		56.4	73.1	77.6	81.7	92.3	92.8	93.4	94.0	94.8	95.7	95.7	95.7	95.8	95.8	95.8	95.8
≥ 900		56.4	73.1	77.6	81.7	92.7	93.1	93.7	94.5	95.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4
≥ 800		56.4	73.4	78.1	82.2	93.3	94.0	94.8	95.7	96.5	97.6	97.7	97.8	98.0	98.0	98.0	98.0
≥ 700		56.4	73.5	78.2	82.3	93.5	94.2	95.1	96.1	97.0	98.1	98.2	98.3	98.4	98.4	98.4	98.4
≥ 600		56.4	73.5	78.2	82.3	93.5	94.2	95.2	96.9	97.7	99.2	99.3	99.4	99.5	99.5	99.5	99.5
≥ 500		56.4	73.5	78.2	82.3	93.6	94.3	95.3	97.0	97.8	99.3	99.5	99.6	99.8	99.8	99.8	99.8
≥ 400		56.4	73.5	78.2	82.3	93.6	94.3	95.3	97.0	97.8	99.3	99.6	99.8	99.9	99.9	99.9	99.9
≥ 300		56.4	73.5	78.2	82.3	93.6	94.3	95.4	97.1	98.0	99.4	99.8	99.9	100.0	100.0	100.0	100.0
≥ 200		56.4	73.5	78.2	82.3	93.6	94.3	95.4	97.1	98.0	99.4	99.8	99.9	100.0	100.0	100.0	100.0
≥ 100		56.4	73.5	78.2	82.3	93.6	94.3	95.4	97.1	98.0	99.4	99.8	99.9	100.0	100.0	100.0	100.0
≥ 0		56.4	73.5	78.2	82.3	93.6	94.3	95.4	97.1	98.0	99.4	99.8	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 830

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 142 RAMSTEIN AB DL

73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET		VISIBILITY STATUTES															
		200	26	31	34	37	40	43	47	50	54	57	60	63	67	70	75
NO CLOUDS		16.5	21.2	21.8	22.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
1-200		24.7	30.5	31.5	32.6	33.8	33.8	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
2-200		25.3	31.2	32.2	33.3	34.5	34.5	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
1-400		25.3	31.2	32.3	33.4	34.6	34.6	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
2-400		25.6	32.0	33.2	34.3	35.5	35.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
1-600		26.8	33.4	34.6	35.7	36.9	36.9	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2-600		28.5	35.8	37.3	38.4	40.0	40.0	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
1-800		29.0	36.3	38.0	39.1	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
2-800		31.7	39.4	41.7	42.8	45.0	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.5	45.5	45.5
1-1000		33.1	40.9	43.4	44.5	46.9	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.4	47.4	47.4
2-1000		33.5	41.4	43.9	45.0	47.4	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.9	47.9	47.9
1-1200		35.3	43.3	45.8	47.0	49.6	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	50.1	50.1	50.1
2-1200		37.5	47.3	49.9	51.4	54.3	54.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.9	54.9	54.9
1-1400		41.3	52.1	54.9	56.3	59.5	59.6	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.2
2-1400		45.7	58.0	60.8	62.5	66.3	66.5	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.1	67.1	67.1
1-1600		53.3	67.8	71.1	72.7	77.3	77.4	77.8	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0	78.0
2-1600		56.7	72.3	75.6	77.3	82.1	82.3	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9	82.9
1-1800		60.2	76.6	80.1	82.6	88.2	88.3	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9
2-1800		60.7	77.7	81.2	83.8	89.5	89.6	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2
1-2000		62.6	80.2	84.0	86.9	93.5	93.6	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.7	94.7
2-2000		63.8	81.8	85.6	88.8	95.7	95.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.9	96.9	96.9
1-2200		63.8	81.8	85.6	88.8	96.4	96.5	97.2	97.6	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8
2-2200		53.8	81.8	85.6	88.8	96.4	96.5	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9
1-2400		64.1	82.1	86.0	89.1	97.0	97.1	98.1	98.6	98.7	98.8	98.8	98.8	98.9	99.0	99.3	99.3
2-2400		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	98.9	98.9	98.9	99.0	99.2	99.4	99.4
1-2600		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	99.2	99.2	99.2	99.3	99.4	99.6	99.6
2-2600		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	99.2	99.2	99.2	99.3	99.4	99.6	99.6
1-2800		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	99.2	99.2	99.2	99.3	99.6	100.0	100.0
2-2800		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	99.2	99.2	99.2	99.3	99.6	100.0	100.0
1-3000		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	99.2	99.2	99.2	99.3	99.6	100.0	100.0
2-3000		64.1	82.1	86.0	89.1	97.0	97.1	98.2	98.7	98.8	99.2	99.2	99.2	99.3	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

829

GENERAL CLIMATOLOGY BRANCH
AFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 142 RAMSTEIN AB DL

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

VISIBILITY (MILES)																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	27.1	26.7	27.7	28.5	28.9	28.9	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2	26.7	34.7	36.1	36.7	38.7	38.2	38.8	38.8	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1
3	26.7	34.8	36.2	36.8	38.3	38.3	39.0	39.0	39.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2
4	26.8	35.0	36.3	36.9	38.5	38.5	39.1	39.1	39.2	39.3	39.3	39.3	39.3	39.3	39.3	39.3
5	27.7	36.1	37.6	38.2	39.8	39.8	40.4	40.4	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7
6	28.9	37.4	39.1	39.6	41.1	41.1	41.7	41.7	41.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0
7	30.3	40.5	42.5	43.2	44.9	44.9	45.5	45.5	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8
8	31.3	41.5	43.4	44.2	45.9	45.9	46.5	46.5	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7
9	35.3	46.4	48.5	49.5	51.5	51.5	52.1	52.1	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3
10	35.6	46.8	49.0	50.0	52.2	52.2	52.8	52.8	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
11	36.0	47.7	49.9	50.8	53.0	53.0	53.6	53.6	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9
12	37.5	50.2	52.4	53.4	55.8	55.8	56.4	56.4	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
13	41.6	55.1	57.9	59.2	62.6	62.6	63.2	63.2	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5
14	45.5	59.5	62.3	63.6	67.1	67.1	67.8	68.1	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3
15	49.9	64.7	67.5	69.1	72.9	72.9	73.7	73.9	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2
16	54.9	71.1	74.0	76.1	80.8	80.8	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
17	55.7	73.1	76.2	78.5	83.6	83.6	84.3	84.6	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1
18	56.8	75.5	79.4	82.3	87.9	88.0	89.4	89.7	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2
19	57.4	76.1	80.0	83.1	88.8	89.0	90.4	90.7	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
20	58.6	77.8	81.8	85.1	91.7	91.9	93.4	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
21	59.7	79.1	83.1	87.1	94.2	94.3	95.9	96.1	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
22	59.7	79.1	83.1	87.1	94.5	94.7	96.4	96.6	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
23	59.7	79.1	83.1	87.1	94.5	94.7	96.5	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
24	59.7	79.2	83.4	87.5	95.0	95.1	97.0	97.5	97.8	98.2	98.2	98.3	98.3	98.4	98.5	98.5
25	59.7	79.2	83.4	87.5	95.0	95.1	97.0	97.7	98.1	98.4	98.4	98.5	98.5	98.7	98.8	98.8
26	59.7	79.2	83.4	87.5	95.3	95.5	97.3	98.1	98.4	98.9	98.9	99.0	99.0	99.2	99.3	99.3
27	59.7	79.2	83.4	87.5	95.3	95.5	97.3	98.1	98.4	99.0	99.0	99.2	99.2	99.3	99.4	99.4
28	59.7	79.2	83.4	87.5	95.3	95.5	97.3	98.2	98.5	99.3	99.3	99.4	99.4	99.5	99.6	99.6
29	59.7	79.2	83.4	87.5	95.3	95.5	97.3	98.2	98.5	99.3	99.3	99.5	99.5	99.6	99.8	99.9
30	59.7	79.2	83.4	87.5	95.3	95.5	97.3	98.2	98.5	99.3	99.3	99.5	99.5	99.6	99.9	100.0
31	59.7	79.2	83.4	87.5	95.3	95.5	97.3	98.2	98.5	99.3	99.3	99.5	99.5	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS

824

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

ELEVATION (FEET)		VISIBILITY (STATUTE MILES)															
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
1	0-100	24.1	30.7	31.5	32.0	34.5	34.5	34.7	35.1	35.2	35.8	35.8	35.8	36.2	36.3	36.3	36.3
2	100-200	28.4	36.0	36.8	37.3	40.3	40.8	41.4	41.9	42.0	42.8	42.8	42.8	43.1	43.3	43.4	43.4
3	200-300	28.4	36.1	37.1	37.8	40.8	41.3	41.9	42.4	42.5	43.3	43.3	43.3	43.6	43.8	43.9	43.9
4	300-400	28.4	36.1	37.1	37.8	40.8	41.3	41.9	42.4	42.5	43.3	43.3	43.3	43.6	43.8	43.9	43.9
5	400-500	28.4	36.1	37.1	37.8	40.8	41.3	41.9	42.4	42.5	43.3	43.3	43.3	43.6	43.8	43.9	43.9
6	500-600	28.7	36.5	37.3	38.2	41.2	41.7	42.3	42.8	42.9	43.6	43.6	43.6	44.0	44.1	44.3	44.3
7	600-700	30.8	39.1	40.4	41.3	44.4	44.9	45.5	46.0	46.1	46.8	46.8	46.8	47.2	47.3	47.5	47.5
8	700-800	31.0	40.0	41.4	42.3	45.4	45.9	46.5	47.0	47.1	47.8	47.8	47.8	48.2	48.3	48.5	48.5
9	800-900	32.9	42.3	43.6	44.5	47.8	48.5	49.1	49.7	49.8	50.6	50.6	50.6	50.9	51.1	51.2	51.2
10	900-1000	33.1	42.9	44.3	45.1	48.5	49.1	49.7	50.3	50.4	51.2	51.2	51.2	51.5	51.7	51.8	51.8
11	1000-1100	33.3	43.4	44.7	45.6	48.9	49.6	50.2	50.8	50.9	51.7	51.7	51.7	52.0	52.2	52.3	52.3
12	1100-1200	35.3	47.5	48.8	49.7	53.3	53.9	54.5	55.1	55.3	56.0	56.0	56.0	56.4	56.5	56.6	56.6
13	1200-1300	39.9	53.0	55.3	56.4	60.9	61.6	62.2	62.8	62.9	63.7	63.7	63.7	64.1	64.2	64.3	64.3
14	1300-1400	42.3	55.9	58.1	59.3	64.0	64.6	65.8	66.5	66.6	67.4	67.4	67.4	67.7	67.9	68.0	68.0
15	1400-1500	46.4	61.8	63.0	64.4	69.7	70.3	71.4	72.2	72.3	73.2	73.2	73.2	73.5	73.7	73.8	73.8
16	1500-1600	49.6	64.6	67.1	68.9	74.7	75.3	76.4	77.3	77.4	78.2	78.2	78.2	78.6	78.7	78.9	78.9
17	1600-1700	51.7	66.7	69.3	71.6	78.0	78.6	79.7	80.6	81.1	82.0	82.0	82.0	82.3	82.4	82.6	82.6
18	1700-1800	53.5	69.2	71.9	74.2	81.3	82.0	83.3	84.2	84.7	85.7	85.7	85.7	86.0	86.2	86.3	86.3
19	1800-1900	54.0	69.7	72.6	74.8	82.0	82.7	84.1	84.9	85.4	86.4	86.4	86.4	86.8	86.9	87.0	87.0
20	1900-2000	56.6	73.1	76.3	78.7	86.4	87.1	88.5	89.4	89.9	90.9	90.9	90.9	91.2	91.3	91.5	91.5
21	2000-2100	58.1	74.8	78.0	80.6	88.6	89.4	90.7	92.0	92.5	93.4	93.4	93.4	93.8	93.9	94.1	94.1
22	2100-2200	58.3	75.8	79.2	82.0	90.7	91.6	93.0	94.2	94.8	95.8	95.8	95.8	96.2	96.3	96.4	96.4
23	2200-2300	58.6	76.4	79.9	82.7	91.7	92.6	93.9	95.2	95.8	96.8	96.8	96.8	97.2	97.3	97.4	97.4
24	2300-2400	58.6	76.5	80.0	82.8	91.8	92.7	94.1	95.4	96.2	97.2	97.3	97.3	97.7	97.8	97.9	97.9
25	2400-2500	58.6	76.5	80.0	82.8	91.8	92.7	94.2	95.7	96.5	97.7	97.8	97.8	98.1	98.3	98.4	98.4
26	2500-2600	58.6	76.5	80.0	82.9	92.0	92.8	94.3	95.8	96.7	97.8	97.9	97.9	98.3	98.4	98.5	98.5
27	2600-2700	58.6	76.5	80.0	82.9	92.0	92.8	94.4	96.0	97.0	98.1	98.3	98.3	98.6	98.8	98.9	98.9
28	2700-2800	58.6	76.5	80.0	82.9	92.0	92.8	94.4	96.2	97.2	98.3	98.4	98.4	98.8	98.9	99.0	99.0
29	2800-2900	58.6	76.5	80.0	82.9	92.0	92.8	94.4	96.3	97.4	98.6	98.8	98.8	99.1	99.4	99.5	99.5
30	2900-3000	58.6	76.5	80.0	82.9	92.0	92.8	94.4	96.3	97.4	98.9	99.0	99.0	99.4	99.6	99.9	99.9
31	3000-3100	58.6	76.5	80.0	82.9	92.0	92.8	94.4	96.3	97.4	98.9	99.0	99.0	99.4	99.8	100.0	100.0
32	3100-3200	58.6	76.5	80.0	82.9	92.0	92.8	94.4	96.3	97.4	98.9	99.0	99.0	99.4	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

USAF ETAC 0-14-5 TOL AIR WEATHER SERVICE/MAC PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10140 RAMSTEIN AB DL

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

ELEVATION FEET		VISIBILITY - STATUTE MILES															
		20	26	28	24	20	22	24	26	28	30	32	34	36	38	40	42
NO. FEET		15.6	21.4	22.5	23.2	25.7	25.8	26.3	26.7	26.8	27.1	27.1	27.1	27.3	27.6	27.7	28.1
20000		21.6	27.4	28.9	29.7	32.9	33.2	34.0	34.5	34.8	35.2	35.3	35.4	35.6	35.9	36.1	36.4
21800		21.4	27.7	29.1	30.0	33.2	33.5	34.3	34.9	35.2	35.6	35.6	35.7	35.9	36.2	36.4	36.8
21600		21.8	27.7	29.2	30.1	33.3	33.5	34.3	34.9	35.2	35.6	35.7	35.8	35.9	36.3	36.4	36.8
21400		22.1	28.1	29.6	30.5	33.7	34.0	34.8	35.3	35.6	36.1	36.1	36.2	36.4	36.7	36.9	37.3
21200		22.5	28.6	30.2	31.2	34.4	34.6	35.4	36.0	36.3	36.7	36.8	36.9	37.1	37.4	37.6	37.9
21000		24.7	30.5	32.2	33.2	36.6	36.8	37.7	38.3	38.6	39.1	39.1	39.2	39.4	39.7	39.9	40.3
20800		24.3	31.0	32.8	33.9	37.2	37.5	38.3	38.9	39.3	39.8	39.8	39.9	40.1	40.5	40.6	41.0
20600		26.7	33.2	35.4	36.5	40.2	40.6	41.5	42.2	42.6	43.2	43.2	43.3	43.5	43.9	44.1	44.5
20400		26.7	34.0	36.2	37.4	41.2	41.6	42.5	43.2	43.7	44.3	44.3	44.5	44.7	45.1	45.2	45.6
20200		27.0	34.5	36.7	37.9	41.8	42.1	43.0	43.8	44.3	44.9	44.9	45.0	45.2	45.6	45.8	46.2
20000		28.7	36.9	39.1	40.4	44.5	44.9	45.9	46.7	47.1	47.8	47.8	48.0	48.2	48.7	48.9	49.3
19800		31.7	40.8	43.4	44.9	49.8	50.1	51.3	52.2	52.8	53.5	53.5	53.7	53.9	54.4	54.6	55.1
19600		34.5	44.4	47.1	48.7	53.9	54.3	55.6	56.6	57.2	58.0	58.1	58.3	58.6	59.1	59.3	59.7
19400		38.2	49.0	51.9	53.6	59.1	59.5	60.8	61.9	62.5	63.3	63.5	63.6	63.9	64.4	64.7	65.1
19200		42.8	54.7	58.0	60.0	66.0	66.4	67.7	68.9	69.5	70.3	70.5	70.6	70.9	71.4	71.7	72.1
19000		45.1	57.7	61.2	63.5	70.0	70.5	71.9	73.0	73.7	74.5	74.7	74.8	75.1	75.6	75.9	76.3
18800		48.3	61.7	65.5	68.1	75.5	76.0	77.6	78.8	79.5	80.4	80.6	80.8	81.1	81.6	81.8	82.3
18600		48.9	62.6	66.4	69.2	76.7	77.3	78.9	80.1	80.8	81.8	81.9	82.1	82.4	82.9	83.2	83.6
18400		51.3	65.7	69.8	72.9	81.5	82.1	83.9	85.1	85.9	87.0	87.1	87.3	87.6	88.2	88.4	88.8
18200		53.2	68.1	72.3	75.6	84.7	85.3	87.0	88.4	89.3	90.4	90.5	90.7	91.0	91.6	91.8	92.3
18000		53.8	69.0	73.3	76.7	86.6	87.3	89.2	90.7	91.7	92.9	93.0	93.3	93.6	94.1	94.4	94.9
17800		54.0	69.2	73.5	77.0	87.1	87.8	89.8	91.4	92.4	93.7	93.8	94.1	94.4	94.9	95.2	95.7
17600		54.1	69.4	73.8	77.3	87.6	88.3	90.5	92.2	93.2	94.6	94.8	95.1	95.4	96.0	96.3	96.9
17400		54.1	69.5	73.9	77.4	87.8	88.6	90.8	92.8	93.9	95.4	95.5	95.8	96.2	96.8	97.1	97.6
17200		54.1	69.5	73.9	77.4	87.9	88.7	91.1	93.1	94.3	95.9	96.1	96.4	96.7	97.4	97.6	98.2
17000		54.1	69.6	73.9	77.4	87.9	88.8	91.2	93.3	94.5	96.2	96.3	96.7	97.1	97.8	98.1	98.6
16800		54.1	69.6	73.9	77.4	87.9	88.8	91.2	93.4	94.6	96.4	96.6	96.9	97.4	98.0	98.3	98.8
16600		54.1	69.6	74.0	77.4	88.0	88.8	91.2	93.6	94.9	96.7	96.9	97.3	97.8	98.5	98.8	99.5
16400		54.1	69.6	74.0	77.4	88.0	88.8	91.2	93.6	94.9	96.8	97.0	97.4	97.9	98.6	99.0	99.8
16200		54.1	69.6	74.0	77.4	88.0	88.8	91.2	93.6	94.9	96.8	97.0	97.4	97.9	98.7	99.1	100.0
16000		54.1	69.6	74.0	77.4	88.0	88.8	91.2	93.6	94.9	96.8	97.0	97.4	97.9	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 6542

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATMOSPHERIC WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO CEILING	28.9	38.1	41.2	42.1	45.6	45.7	46.6	46.8	46.8	47.6	47.6	47.6	47.8	48.1	48.2	48.6
2 20000	31.3	41.3	44.4	45.3	48.9	49.1	50.2	50.4	50.4	51.4	51.4	51.4	51.7	52.3	52.4	52.9
2 8000	31.3	41.6	44.7	45.6	49.2	49.3	50.4	50.7	50.7	51.7	51.8	51.8	52.1	52.7	52.8	53.3
2 6000	31.3	41.6	44.7	45.6	49.2	49.3	50.4	50.7	50.7	51.7	51.8	51.8	52.1	52.7	52.8	53.3
2 4000	31.3	41.7	44.8	45.7	49.3	49.4	50.6	50.8	50.8	51.8	51.9	51.9	52.2	52.8	52.9	53.4
2 2000	31.5	41.9	45.1	45.9	49.6	49.7	50.8	51.1	51.1	52.1	52.2	52.2	52.4	53.1	53.2	53.7
2 10000	32.9	43.8	46.9	47.8	51.4	51.6	52.7	52.9	52.9	53.9	54.1	54.1	54.3	54.9	55.1	55.6
2 9000	33.2	44.2	47.4	48.3	51.9	52.1	53.2	53.4	53.4	54.4	54.6	54.6	54.8	55.4	55.6	56.1
2 8000	34.0	45.6	49.1	49.9	54.1	54.3	55.4	56.1	56.1	57.3	57.4	57.6	57.8	58.4	58.6	59.1
2 7000	34.0	45.6	49.1	49.9	54.1	54.3	55.4	56.1	56.1	57.3	57.4	57.6	57.8	58.6	58.7	59.2
2 6000	34.2	45.9	49.4	50.4	54.7	54.9	56.1	56.7	56.7	57.9	58.1	58.2	58.4	59.2	59.3	59.6
2 5000	35.8	48.6	52.1	53.1	57.8	58.1	59.3	60.1	60.2	61.7	61.8	62.0	62.2	63.0	63.1	63.6
2 4500	38.5	52.2	55.8	57.1	62.6	62.8	64.1	64.8	65.1	66.6	66.7	66.8	67.1	68.0	68.1	68.6
2 4000	41.7	56.2	60.3	61.7	67.2	67.5	69.0	69.7	70.0	71.6	71.7	72.0	72.2	73.1	73.2	74.0
2 3500	43.7	58.8	63.1	64.7	71.0	71.2	72.8	73.6	73.8	75.6	75.7	76.0	76.2	77.1	77.2	78.0
2 3000	47.6	64.3	68.7	70.6	77.3	77.6	79.2	80.0	80.2	82.0	82.1	82.4	82.6	83.5	83.6	84.4
2 2500	48.3	65.2	69.8	71.7	78.8	79.1	80.7	81.5	81.7	83.5	83.6	83.9	84.1	85.0	85.1	85.9
2 2000	49.3	67.0	71.7	73.6	81.0	81.2	83.0	83.7	84.0	85.7	85.9	86.1	86.5	87.4	87.5	88.2
2 1800	49.7	67.3	72.1	74.0	81.5	81.7	83.5	84.2	84.5	86.2	86.4	86.6	87.0	87.9	88.0	88.7
2 1500	50.8	69.3	74.5	76.6	84.4	84.7	86.5	87.2	87.5	89.2	89.4	89.6	90.0	90.9	91.0	91.7
2 1200	51.4	70.2	75.3	77.7	86.1	86.5	88.2	89.0	89.4	91.1	91.2	91.5	91.9	92.7	92.9	93.6
2 1000	52.2	71.2	76.3	78.8	87.6	88.0	89.7	90.5	90.9	92.6	92.7	93.0	93.4	94.2	94.4	95.1
2 900	52.3	71.3	76.5	79.0	87.7	88.1	89.9	90.6	91.2	93.0	93.1	93.4	93.7	94.9	95.1	95.9
2 800	52.3	71.5	76.6	79.1	88.0	88.4	90.2	91.0	91.6	93.4	93.6	93.9	94.2	95.4	95.6	96.4
2 700	52.3	71.5	76.6	79.1	88.1	88.5	90.4	91.5	92.1	94.0	94.4	94.6	95.0	96.1	96.4	97.1
2 600	52.3	71.5	76.6	79.1	88.1	88.5	90.6	91.7	92.4	94.5	94.9	95.2	95.6	96.7	97.0	97.7
2 500	52.3	71.5	76.6	79.1	88.1	88.5	90.7	92.1	92.7	94.9	95.2	95.6	96.0	97.1	97.4	98.1
2 400	52.3	71.5	76.6	79.1	88.1	88.5	91.0	92.4	93.1	95.2	95.6	96.2	96.6	97.9	98.1	98.9
2 300	52.3	71.5	76.6	79.1	88.1	88.5	91.1	92.6	93.5	95.9	96.4	97.0	97.4	98.6	98.9	100.0
2 200	52.3	71.5	76.6	79.1	88.1	88.5	91.1	92.6	93.5	95.9	96.4	97.0	97.4	98.6	98.9	100.0
2 100	52.3	71.5	76.6	79.1	88.1	88.5	91.1	92.6	93.5	95.9	96.4	97.0	97.4	98.6	98.9	100.0
2 00	52.3	71.5	76.6	79.1	88.1	88.5	91.1	92.6	93.5	95.9	96.4	97.0	97.4	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 799

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 141 RAMSTEIN AB DL

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING		VISIBILITY																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1000	14.7	21.8	24.9	26.5	34.1	34.4	35.7	36.9	37.2	38.3	38.3	38.4	38.4	38.8	39.0	39.3		
2	800	17.8	25.8	29.0	30.6	38.8	39.2	40.6	41.9	42.1	43.5	43.6	43.7	43.7	44.4	44.6	45.0		
3	600	18.1	26.1	29.8	31.2	39.4	39.8	41.3	42.5	42.8	44.1	44.2	44.4	44.4	45.0	45.2	45.6		
4	400	18.1	26.4	29.9	31.5	39.7	40.0	41.5	42.8	43.0	44.4	44.5	44.6	44.6	45.2	45.5	46.0		
5	200	18.1	26.9	30.0	31.8	39.8	40.1	41.6	42.9	43.1	44.5	44.6	44.7	44.7	45.4	45.6	46.1		
6	100	18.3	26.8	30.2	31.8	40.0	40.4	41.9	43.1	43.4	44.7	44.9	45.0	45.0	45.6	45.8	46.3		
7	500	19.8	28.3	32.0	33.6	42.1	42.5	44.1	45.5	45.7	47.2	47.3	47.5	47.5	48.1	48.3	48.8		
8	400	20.1	28.5	32.2	33.8	42.4	42.8	44.5	45.8	46.1	47.6	47.7	47.8	47.8	48.5	48.7	49.2		
9	300	21.7	31.2	35.4	37.2	46.5	46.8	48.6	50.1	50.3	52.3	52.5	52.9	52.9	53.7	54.7	54.5		
10	200	22.2	31.8	36.1	37.8	47.2	47.6	49.4	50.9	51.2	53.2	53.4	53.8	53.8	54.5	54.9	55.4		
11	100	22.2	32.1	36.4	38.2	47.7	48.1	50.1	51.5	51.8	53.8	54.0	54.4	54.4	55.1	55.5	56.0		
12	500	23.5	33.8	38.5	40.3	50.4	50.8	52.8	54.6	54.9	57.1	57.4	57.7	57.7	58.5	58.9	59.4		
13	400	24.5	36.6	42.1	43.9	54.4	55.0	57.2	59.2	59.5	61.8	62.1	62.5	62.5	63.2	63.6	64.1		
14	300	26.9	39.8	45.5	47.2	58.6	59.2	61.5	63.6	63.8	66.7	66.9	67.3	67.3	68.2	68.8	69.3		
15	200	28.5	42.4	48.2	50.1	61.5	62.1	64.4	66.7	66.9	69.8	70.0	70.4	70.4	71.3	71.9	72.5		
16	100	31.5	46.2	52.7	54.5	66.5	67.2	69.8	72.1	72.4	75.5	75.7	76.1	76.1	77.0	77.6	78.2		
17	500	32.3	47.8	54.4	56.3	68.9	69.5	72.2	74.6	74.8	77.9	78.2	78.6	78.6	79.4	80.0	80.7		
18	400	33.5	50.6	57.4	59.5	72.7	73.4	76.2	78.6	78.8	81.9	82.2	82.5	82.5	83.5	84.1	84.8		
19	300	34.1	51.2	58.1	60.2	73.5	74.1	77.0	79.3	79.6	82.7	82.9	83.3	83.3	84.3	84.9	85.5		
20	200	34.4	52.3	60.0	62.2	76.3	77.0	80.2	82.5	82.8	85.9	86.1	86.5	86.5	87.5	88.1	88.7		
21	100	34.7	52.8	60.7	63.2	77.9	78.6	82.2	84.5	84.8	88.0	88.2	88.6	88.6	89.6	90.2	90.8		
22	500	34.9	53.0	61.0	63.7	79.1	79.7	83.4	85.9	86.1	89.7	90.0	90.3	90.3	91.3	91.9	92.6		
23	400	35.2	53.3	61.2	63.9	79.6	80.2	83.9	86.4	86.6	90.6	90.8	91.2	91.2	92.2	92.8	93.4		
24	300	35.2	53.3	61.7	64.6	80.5	81.2	85.3	87.9	88.2	92.3	92.6	92.9	92.9	93.9	94.5	95.2		
25	200	35.2	53.3	61.7	64.6	80.8	81.4	85.5	88.2	88.6	93.1	93.3	93.7	93.7	94.7	95.3	95.9		
26	100	35.2	53.3	61.7	64.6	80.9	81.5	85.6	88.4	88.7	93.2	93.4	93.8	93.8	94.8	95.4	96.0		
27	500	35.2	53.3	61.7	64.6	80.9	81.5	85.7	88.5	88.8	93.4	93.8	94.2	94.4	95.5	96.2	97.0		
28	400	35.2	53.3	61.7	64.6	80.9	81.5	85.7	88.5	88.8	93.9	94.3	94.7	94.9	96.0	96.7	97.5		
29	300	35.2	53.3	61.7	64.6	80.9	81.5	85.7	88.6	89.0	94.2	94.5	94.9	95.3	96.4	97.0	98.4		
30	200	35.2	53.3	61.7	64.6	80.9	81.5	85.7	88.6	89.0	94.2	94.5	94.9	95.4	96.7	97.5	100.0		
31	100	35.2	53.3	61.7	64.6	80.9	81.5	85.7	88.6	89.0	94.2	94.5	94.9	95.4	96.7	97.5	100.0		

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AT- WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

APP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	19.8	26.5	28.1	30.2	34.2	34.4	34.9	35.0	35.0	35.0	35.0	35.0	35.0	35.1	35.1	35.1
2 20000	23.5	31.3	33.3	35.6	40.5	40.8	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.7	41.7	41.7
2 18000	23.5	31.6	33.6	36.1	41.0	41.3	41.8	42.0	42.0	42.0	42.0	42.0	42.0	42.2	42.2	42.2
2 16000	23.5	31.8	33.9	36.3	41.3	41.5	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.4	42.4	42.5
2 14000	23.6	32.1	34.2	36.7	41.8	42.0	42.5	42.8	42.8	42.8	42.8	42.8	42.8	42.9	42.9	43.0
2 12000	24.2	32.9	35.0	37.5	42.5	42.8	43.3	43.8	43.8	43.8	43.8	43.8	43.8	43.9	43.9	44.0
2 10000	25.2	34.1	36.2	38.7	43.8	44.0	44.5	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.1	45.2
2 9000	25.3	34.2	36.3	38.8	43.9	44.1	44.6	45.1	45.1	45.1	45.1	45.1	45.1	45.2	45.2	45.4
2 8000	26.5	35.7	38.2	40.8	46.4	46.6	47.1	47.7	47.7	48.1	48.1	48.1	48.1	48.2	48.2	48.3
2 7000	27.4	37.0	39.4	42.2	48.0	48.2	48.7	49.3	49.3	49.7	49.7	49.7	49.8	49.8	49.8	49.9
2 6000	27.8	37.5	39.9	42.6	48.6	48.8	49.3	49.9	49.9	50.3	50.3	50.3	50.4	50.4	50.4	50.6
2 5000	29.8	39.4	42.3	44.9	51.3	51.5	52.0	52.8	52.8	53.2	53.2	53.2	53.3	53.3	53.3	53.4
2 4500	31.5	41.7	44.5	47.3	54.1	54.4	55.1	55.9	55.9	56.5	56.5	56.5	56.6	56.6	56.6	56.7
2 4000	34.5	45.7	48.6	51.8	59.0	59.2	60.3	61.1	61.1	61.7	61.7	61.7	61.8	61.8	61.8	61.9
2 3500	38.8	51.7	54.5	57.8	65.3	65.5	66.6	67.5	67.5	68.1	68.1	68.1	68.2	68.2	68.2	68.5
2 3000	43.8	58.3	61.8	65.1	72.8	73.1	74.3	75.2	75.2	76.0	76.0	76.0	76.1	76.1	76.1	76.4
2 2500	46.0	62.3	65.8	69.3	77.4	77.8	79.0	79.9	80.0	80.8	80.8	80.8	81.0	81.0	81.0	81.2
2 2000	47.7	65.1	68.6	72.4	81.6	82.0	83.2	84.1	84.2	85.0	85.0	85.0	85.2	85.2	85.2	85.4
2 1800	47.8	66.4	70.0	73.8	82.9	83.3	84.5	85.4	85.5	86.4	86.4	86.4	86.5	86.5	86.5	86.8
2 1500	49.6	69.5	73.2	77.1	86.8	87.1	88.5	89.6	89.7	90.6	90.6	90.6	90.7	90.7	90.7	91.0
2 1200	49.9	73.3	74.4	78.5	88.6	89.0	90.6	91.7	91.8	92.8	92.8	92.8	93.1	93.1	93.1	93.3
2 1000	50.4	71.0	75.4	79.7	91.1	91.5	93.3	94.6	94.9	96.0	96.0	96.0	96.3	96.3	96.3	96.5
2 900	50.4	71.1	75.8	80.1	91.8	92.2	94.1	95.3	95.9	97.4	97.4	97.4	97.7	97.7	97.7	97.9
2 800	50.4	71.1	75.9	80.2	92.0	92.3	94.4	95.7	96.3	97.9	97.9	97.9	98.1	98.1	98.1	98.4
2 700	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	98.6	98.6	98.6	98.9	98.9	98.9	99.1
2 600	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	98.6	98.6	98.6	98.9	98.9	98.9	99.1
2 500	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	98.6	98.6	98.6	99.1	99.1	99.1	99.4
2 400	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	98.9	98.9	98.9	99.0	99.5	99.5	99.8
2 300	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	99.0	99.0	99.0	99.1	99.6	99.6	99.9
2 200	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	99.0	99.1	99.1	99.3	99.8	99.8	100.0
2 100	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	99.0	99.1	99.1	99.3	99.8	99.8	100.0
2 0	50.4	71.1	75.9	80.2	92.2	92.6	94.7	96.2	96.8	99.0	99.1	99.1	99.3	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 809

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO FEE LINE	25.2	27.4	27.8	28.2	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 20000	37.4	34.9	35.2	35.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 18000	30.9	35.8	36.0	36.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥ 16000	30.8	35.8	36.2	36.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
≥ 14000	30.9	36.0	36.3	37.0	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
≥ 12000	31.0	36.7	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 10000	32.4	38.2	38.6	39.2	40.2	40.2	40.2	40.2	40.3	40.5	40.5	40.5	40.5	40.5	40.5	40.5
≥ 9000	32.5	38.7	39.2	39.8	40.8	40.8	40.8	40.8	40.9	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 8000	33.9	40.8	41.3	42.2	43.1	43.1	43.1	43.1	43.3	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥ 7000	34.4	41.7	42.3	43.1	44.1	44.1	44.1	44.1	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 6000	34.9	42.0	42.8	43.6	44.6	44.6	44.6	44.6	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 5000	36.2	44.1	44.9	45.7	46.7	46.7	46.7	46.7	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 4500	38.4	47.7	48.5	49.3	50.3	50.4	50.6	50.6	50.7	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 4000	43.1	54.3	55.3	56.1	57.5	57.6	57.7	57.7	57.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 3500	51.5	54.5	65.8	66.7	68.2	68.4	68.5	68.5	68.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 3000	60.2	75.5	77.1	78.4	80.3	80.5	80.7	80.7	80.8	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 2500	61.7	78.7	80.3	81.6	83.6	83.7	83.9	83.9	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000	64.6	83.1	84.9	86.4	88.5	88.6	88.9	88.9	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1800	65.1	83.8	85.7	87.1	89.2	89.4	89.6	89.6	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1600	67.9	87.1	89.2	90.9	93.2	93.3	93.7	93.7	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1400	68.2	87.8	90.0	91.6	94.3	94.4	94.8	94.9	95.1	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1200	68.6	88.5	91.2	92.8	95.9	96.0	97.0	97.4	97.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1000	68.6	88.5	91.3	93.0	96.4	96.5	97.5	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	68.6	88.5	91.3	93.0	96.4	96.5	97.5	97.9	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.0	98.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	68.6	88.5	91.3	93.0	96.4	96.7	97.7	98.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO. CEILING	27.0	30.1	30.2	30.2	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
≥ 20000	34.6	40.1	40.2	40.2	40.4	40.4	40.5	40.5	40.5	40.5	40.6	40.6	40.6	40.6	40.6	40.6
≥ 18000	35.2	40.9	41.0	41.0	41.1	41.1	41.2	41.2	41.2	41.2	41.4	41.4	41.4	41.4	41.4	41.4
≥ 16000	35.2	41.1	41.2	41.2	41.4	41.4	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.6	41.6	41.6
≥ 14000	35.3	41.7	41.9	41.9	42.0	42.0	42.1	42.1	42.1	42.1	42.2	42.2	42.2	42.2	42.2	42.2
≥ 12000	35.3	42.1	42.2	42.2	42.3	42.3	42.5	42.5	42.5	42.5	42.6	42.6	42.6	42.6	42.6	42.6
≥ 10000	37.9	45.4	45.6	45.6	45.7	45.7	46.0	46.0	46.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3
≥ 9000	38.9	46.5	46.7	46.7	46.8	46.8	47.2	47.2	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 8000	41.1	49.4	49.9	49.9	50.1	50.1	50.5	50.5	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 7000	41.9	50.2	51.1	51.1	51.4	51.4	51.7	51.7	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 6000	42.3	51.0	51.9	51.9	52.1	52.1	52.5	52.5	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 5000	44.6	54.2	55.1	55.1	55.3	55.3	55.7	55.7	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 4500	48.9	59.4	60.4	60.4	60.6	60.6	61.0	61.0	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 4000	54.7	66.7	68.1	68.3	68.6	68.6	69.0	69.0	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 3500	61.1	73.8	75.3	75.4	76.0	76.0	76.4	76.4	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3000	67.8	82.7	84.2	84.3	85.1	85.1	85.4	85.4	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 2500	70.1	85.9	87.4	87.7	88.5	88.5	88.9	88.9	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2000	71.7	87.9	89.6	89.9	90.9	90.9	91.5	91.6	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800	71.9	88.0	89.8	90.2	91.4	91.4	92.0	92.1	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	73.3	90.7	93.2	94.4	95.7	95.7	96.7	96.8	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	73.8	91.4	94.1	95.3	96.7	96.7	97.7	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	74.3	91.9	94.6	95.8	97.4	97.4	98.5	98.6	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	74.3	91.9	94.6	95.8	97.4	97.4	98.5	98.6	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	74.3	91.9	94.6	95.8	97.4	97.7	98.8	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	74.3	91.9	94.6	95.8	97.4	97.7	98.8	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	74.3	91.9	94.6	95.8	97.4	97.7	98.8	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	74.3	91.9	94.6	95.8	97.4	97.7	98.9	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	74.3	91.9	94.6	95.8	97.4	97.7	98.9	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	74.3	91.9	94.6	95.8	97.4	97.7	98.9	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	74.3	91.9	94.6	95.8	97.4	97.7	98.9	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	74.3	91.9	94.6	95.8	97.4	97.7	98.9	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	74.3	91.9	94.6	95.8	97.4	97.7	98.9	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

APP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	35.8	40.8	40.6	40.7	41.0	41.0	41.2	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 20000	44.6	51.2	51.6	52.0	52.7	52.7	53.0	53.2	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6
18000	45.2	51.9	52.2	52.6	53.3	53.3	53.6	53.8	53.8	54.2	54.2	54.2	54.2	54.2	54.2	54.2
16000	45.2	51.9	52.2	52.6	53.3	53.3	53.6	53.8	53.8	54.2	54.2	54.2	54.2	54.2	54.2	54.2
14000	45.4	52.5	52.8	53.2	54.0	54.0	54.2	54.4	54.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8
12000	45.7	53.1	53.5	53.8	54.6	54.6	54.8	55.1	55.1	55.4	55.4	55.4	55.4	55.4	55.4	55.4
10000	48.3	56.3	56.7	57.0	57.9	57.9	58.3	58.8	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1
9000	48.9	57.3	57.7	58.0	58.9	58.9	59.3	59.8	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1
8000	52.2	61.9	62.3	62.7	63.6	63.6	64.0	64.4	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8
7000	53.6	63.2	64.1	64.6	65.4	65.4	65.8	66.3	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7
6000	54.4	64.3	65.2	65.7	66.5	66.5	66.9	67.4	67.4	67.8	67.8	67.8	67.8	67.8	67.8	67.8
5000	56.8	66.7	67.5	68.0	68.9	68.9	69.3	69.8	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1
4500	60.7	71.9	72.8	73.3	74.2	74.2	74.6	75.1	75.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4
4000	63.7	75.4	76.7	77.2	78.6	78.6	79.0	79.5	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9
3500	66.7	79.8	81.4	81.9	83.6	83.6	84.1	84.6	84.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9
3000	70.2	84.1	85.8	86.3	88.0	88.0	88.8	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6
2500	70.7	85.1	86.9	87.4	89.4	89.5	90.2	90.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2000	71.6	86.3	88.5	89.0	91.0	91.1	91.9	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1800	71.9	86.5	88.9	89.5	91.5	91.6	92.3	92.8	92.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2
1500	72.7	88.3	91.0	91.9	94.2	94.4	95.4	96.0	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5
1200	73.0	88.8	91.5	92.6	95.2	95.4	96.4	97.0	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5
1000	73.0	88.9	92.0	93.1	96.3	96.8	97.9	98.6	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
900	73.0	88.9	92.0	93.1	96.3	96.8	97.9	98.8	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
800	73.0	88.9	92.0	93.1	96.3	96.9	98.0	98.9	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5
600	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6
500	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8
400	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8
300	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8
200	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8
100	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0	73.0	89.0	92.1	93.2	96.4	97.0	98.1	99.0	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING - FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	43.4	49.7	50.8	51.2	52.5	52.5	52.5	52.6	52.6	52.8	53.0	53.0	53.1	53.1	53.1	53.1
≥ 20000	48.2	56.4	57.5	57.9	59.2	59.2	59.5	59.9	59.9	60.5	60.6	60.6	60.8	61.0	61.0	61.0
≥ 18000	48.2	56.6	57.7	58.1	59.5	59.5	59.7	60.1	60.1	60.8	60.9	60.9	61.0	61.3	61.3	61.3
≥ 16000	48.2	56.6	57.7	58.1	59.5	59.5	59.7	60.1	60.1	60.8	60.9	60.9	61.0	61.3	61.3	61.3
≥ 14000	48.2	56.7	57.9	58.2	59.6	59.6	59.9	60.3	60.3	60.9	61.0	61.0	61.1	61.4	61.4	61.4
≥ 12000	48.2	56.7	57.9	58.2	59.6	59.6	59.9	60.3	60.3	60.9	61.0	61.0	61.1	61.4	61.4	61.4
≥ 10000	50.2	59.1	60.3	60.6	62.3	62.3	62.6	63.4	63.4	64.0	64.2	64.2	64.3	64.5	64.7	64.7
≥ 9000	50.7	60.0	61.1	61.5	63.1	63.1	63.5	64.3	64.3	64.9	65.0	65.0	65.2	65.4	65.5	65.5
≥ 8000	52.8	62.9	64.0	64.4	66.0	66.0	66.4	67.2	67.2	67.8	67.9	67.9	68.1	68.3	68.4	68.4
≥ 7000	53.2	63.3	64.7	65.0	66.7	66.7	67.0	67.8	67.8	68.4	68.6	68.6	68.7	68.9	69.1	69.1
≥ 6000	53.3	63.6	65.0	65.4	67.0	67.0	67.4	68.2	68.2	68.8	68.9	68.9	69.1	69.3	69.4	69.4
≥ 5000	55.6	66.4	67.8	68.2	69.8	69.8	70.2	70.9	70.9	71.6	71.7	71.7	71.8	72.1	72.2	72.2
≥ 4500	59.4	72.5	74.2	74.6	76.4	76.4	76.7	77.5	77.5	78.1	78.2	78.2	78.4	78.6	78.7	78.7
≥ 4000	63.3	76.7	78.6	79.2	81.3	81.3	81.8	82.5	82.5	83.1	83.3	83.3	83.4	83.6	83.8	83.8
≥ 3500	64.8	79.4	81.5	82.1	84.4	84.4	85.2	85.9	85.9	86.5	86.7	86.7	86.8	87.1	87.2	87.2
≥ 3000	67.5	82.8	85.0	85.9	88.4	88.4	89.6	90.3	90.3	90.9	91.1	91.1	91.2	91.4	91.6	91.6
≥ 2500	67.5	83.6	86.0	86.9	89.6	89.8	90.7	91.4	91.4	92.1	92.2	92.2	92.3	92.6	92.7	92.7
≥ 2000	67.7	84.0	86.4	87.3	90.3	90.6	91.4	92.2	92.2	92.8	93.0	93.0	93.1	93.5	93.8	93.8
≥ 1800	67.8	84.4	86.8	87.8	90.8	91.1	91.9	92.7	92.7	93.3	93.5	93.5	93.6	94.0	94.3	94.3
≥ 1500	68.3	84.9	87.3	88.4	91.4	91.7	93.0	93.7	93.7	94.3	94.5	94.5	94.6	95.0	95.3	95.3
≥ 1200	68.3	84.9	87.3	89.1	92.3	92.6	94.0	94.7	94.7	95.3	95.5	95.5	95.6	96.0	96.4	96.4
≥ 1000	68.3	84.9	87.5	89.4	93.0	93.2	94.7	95.8	95.8	96.6	96.7	96.7	96.9	97.2	97.6	97.6
≥ 900	68.3	84.9	87.5	89.4	93.0	93.2	94.7	96.1	96.1	96.9	97.0	97.0	97.1	97.5	97.9	97.9
≥ 800	68.3	84.9	87.5	89.6	93.2	93.5	95.0	96.4	96.4	97.1	97.2	97.2	97.4	97.7	98.1	98.1
≥ 700	68.3	84.9	87.5	89.7	93.5	93.7	95.3	96.7	96.7	97.5	97.6	97.6	97.7	98.1	98.5	98.5
≥ 600	68.3	84.9	87.5	89.7	93.5	93.7	95.5	96.9	96.9	97.9	98.0	98.0	98.1	98.5	98.9	98.9
≥ 500	68.3	84.9	87.5	89.7	93.5	93.7	95.7	97.4	97.4	98.4	98.5	98.5	98.6	99.0	99.4	99.4
≥ 400	68.3	84.9	87.5	89.7	93.5	93.7	95.7	97.4	97.4	98.4	98.5	98.5	98.6	99.0	99.4	99.4
≥ 300	68.3	84.9	87.5	89.7	93.5	93.7	95.7	97.5	97.5	98.7	98.9	98.9	99.0	99.4	99.7	99.7
≥ 200	68.3	84.9	87.5	89.7	93.5	93.7	95.7	97.5	97.5	98.7	98.9	98.9	99.0	99.4	99.7	99.7
≥ 100	68.3	84.9	87.5	89.7	93.5	93.7	95.7	97.5	97.5	98.7	98.9	98.9	99.0	99.4	99.7	99.9
≥ 0	68.3	84.9	87.5	89.7	93.5	93.7	95.7	97.5	97.5	98.7	98.9	98.9	99.0	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 795

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14-81 RAMSTEIN AB DL

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET		VISIBILITY STATUTE MILES															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1	10000	28.8	34.9	36.4	37.1	39.6	39.7	40.1	40.3	40.4	40.7	40.7	40.8	40.9	40.9	41.0	41.1
2	9000	33.7	41.4	43.0	43.8	46.6	46.7	47.2	47.6	47.6	48.1	48.1	48.2	48.3	48.4	48.5	48.7
3	8000	33.9	41.9	43.5	44.3	47.1	47.2	47.7	48.1	48.1	48.6	48.7	48.7	48.8	49.0	49.0	49.2
4	7000	33.9	42.0	43.6	44.4	47.2	47.3	47.9	48.2	48.2	48.7	48.8	48.8	48.9	49.1	49.2	49.3
5	6000	34.1	42.2	43.9	44.7	47.5	47.6	48.1	48.5	48.5	49.0	49.1	49.1	49.2	49.4	49.4	49.6
6	5000	34.2	42.6	44.3	45.1	47.9	48.0	48.5	48.9	48.9	49.4	49.5	49.5	49.6	49.8	49.9	50.0
7	4000	35.4	44.7	46.4	47.2	50.1	50.2	50.9	51.3	51.4	51.9	52.0	52.0	52.1	52.3	52.4	52.5
8	3000	36.3	45.3	47.1	47.9	50.7	50.9	51.5	51.9	52.0	52.5	52.6	52.6	52.7	52.9	53.0	53.2
9	2000	37.0	47.7	49.7	50.6	53.7	53.8	54.5	55.1	55.1	55.8	55.9	56.0	56.1	56.3	56.4	56.6
10	1500	38.6	48.5	50.5	51.5	54.6	54.8	55.4	56.0	56.1	56.8	56.9	56.9	57.0	57.3	57.4	57.6
11	1000	38.4	49.0	51.1	52.1	55.3	55.4	56.1	56.7	56.7	57.4	57.5	57.6	57.7	57.9	58.0	58.2
12	500	40.7	51.5	53.7	54.7	58.1	58.2	58.9	59.5	59.7	60.4	60.5	60.6	60.6	60.9	61.0	61.2
13	400	43.8	55.7	58.2	59.2	62.8	63.0	63.8	64.5	64.6	65.4	65.5	65.5	65.6	65.9	66.0	66.2
14	300	47.5	60.3	63.0	64.2	68.1	68.3	69.2	69.9	70.0	70.9	71.0	71.1	71.1	71.4	71.6	71.8
15	200	51.3	65.2	68.1	69.4	73.7	73.9	74.8	75.5	75.7	76.6	76.6	76.7	76.8	77.1	77.2	77.5
16	150	55.7	71.3	74.1	75.5	80.1	80.3	81.4	82.1	82.2	83.3	83.3	83.4	83.5	83.8	83.9	84.2
17	100	56.8	72.9	76.2	77.6	82.4	82.7	83.8	84.5	84.6	85.7	85.7	85.8	85.9	86.2	86.3	86.6
18	50	58.7	75.0	78.4	80.0	85.1	85.4	86.5	87.3	87.4	88.5	88.6	88.6	88.7	89.1	89.2	89.5
19	0	58.3	75.5	79.7	80.6	85.8	86.1	87.2	88.0	88.1	89.2	89.2	89.3	89.4	89.8	89.9	90.2
20	10000	59.6	77.6	81.4	83.2	88.8	89.1	90.4	91.2	91.4	92.5	92.6	92.6	92.8	93.1	93.3	93.5
21	9000	59.9	78.1	82.1	84.2	90.1	90.4	91.8	92.6	92.9	94.0	94.1	94.2	94.3	94.6	94.8	95.1
22	8000	60.2	78.6	82.7	84.9	91.3	91.7	93.3	94.2	94.5	95.8	95.9	95.9	96.1	96.4	96.6	96.9
23	7000	60.3	78.7	82.9	85.1	91.6	91.9	93.5	94.5	94.9	96.3	96.4	96.5	96.6	97.0	97.2	97.4
24	6000	60.3	78.7	83.0	85.2	91.8	92.2	93.9	94.9	95.4	96.8	96.9	97.0	97.1	97.5	97.7	97.9
25	5000	60.3	78.7	83.0	85.3	91.9	92.3	94.1	95.3	95.7	97.2	97.3	97.4	97.5	97.9	98.1	98.4
26	4000	60.3	78.7	83.0	85.3	92.0	92.4	94.2	95.4	95.8	97.4	97.5	97.6	97.7	98.1	98.3	98.6
27	3000	60.3	78.7	83.0	85.3	92.0	92.4	94.3	95.6	96.0	97.6	97.8	97.9	98.1	98.5	98.7	99.0
28	2000	60.3	78.7	83.0	85.3	92.0	92.4	94.3	95.6	96.1	97.8	98.0	98.1	98.3	98.8	99.0	99.3
29	1000	60.3	78.7	83.0	85.3	92.0	92.4	94.4	95.8	96.3	98.1	98.2	98.4	98.6	99.1	99.3	99.7
30	500	60.3	78.7	83.0	85.3	92.0	92.4	94.4	95.8	96.3	98.1	98.3	98.4	98.6	99.1	99.3	99.8
31	100	60.3	78.7	83.0	85.3	92.0	92.4	94.4	95.8	96.3	98.1	98.3	98.4	98.6	99.1	99.3	100.0
32	0	60.3	78.7	83.0	85.3	92.0	92.4	94.4	95.8	96.3	98.1	98.3	98.4	98.6	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6432

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-2200

CEILING FEET	200	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO. OF HOURS	37.4	44.6	47.6	48.6	50.8	50.8	51.3	51.4	51.4	52.7	52.7	52.8	53.3	53.6	53.9	54.2												
20000	40.0	49.7	52.7	53.7	56.1	56.1	56.6	56.7	56.7	58.0	58.0	58.1	58.6	58.9	59.2	59.5												
18000	40.0	49.8	52.8	53.8	56.2	56.2	56.7	56.8	56.8	58.1	58.1	58.3	58.7	59.0	59.3	59.6												
16000	40.0	49.8	52.8	53.8	56.3	56.3	56.8	56.9	56.9	58.3	58.3	58.4	58.9	59.1	59.5	59.7												
14000	40.2	50.1	53.1	54.0	56.7	56.7	57.2	57.3	57.3	58.6	58.6	58.7	59.2	59.5	59.8	60.1												
12000	43.1	53.3	56.5	57.4	60.3	60.3	60.8	60.9	60.9	62.2	62.2	62.4	62.8	63.1	63.4	63.7												
10000	44.0	54.4	57.5	58.9	61.4	61.4	61.9	62.0	62.0	63.3	63.3	63.4	63.9	64.2	64.5	64.8												
8000	47.0	58.9	62.0	63.1	66.2	66.2	66.7	66.8	66.8	68.2	68.2	68.3	68.8	69.1	69.4	69.6												
6000	49.2	61.4	64.5	65.7	68.9	68.9	69.4	69.5	69.5	70.8	70.8	70.9	71.5	71.8	72.1	72.4												
4000	49.3	61.6	64.8	66.0	69.1	69.1	69.6	69.7	69.7	71.0	71.0	71.2	71.8	72.0	72.4	72.6												
2000	51.9	65.3	68.4	69.7	73.0	73.0	73.5	73.6	73.6	74.9	74.9	75.2	75.8	76.0	76.4	76.6												
1000	54.6	69.1	72.6	74.1	77.3	77.3	77.8	77.9	77.9	79.3	79.3	79.6	80.2	80.5	80.8	81.3												
800	57.1	72.0	75.6	77.1	80.3	80.3	80.8	80.9	80.9	82.3	82.3	82.6	83.2	83.5	83.8	84.3												
600	58.7	74.4	78.4	79.9	83.5	83.5	84.0	84.1	84.1	85.4	85.4	85.8	86.4	86.6	87.0	87.5												
400	60.0	76.1	80.1	81.5	85.6	85.6	86.1	86.2	86.2	87.7	87.7	88.1	88.7	88.9	89.3	89.7												
200	60.9	76.6	81.7	83.2	87.8	87.8	88.4	88.5	88.5	90.0	90.0	90.3	91.0	91.2	91.6	92.0												
100	60.9	78.3	82.4	84.0	88.5	88.7	89.4	89.5	89.5	91.0	91.0	91.3	91.9	92.2	92.5	93.0												
80	62.0	79.7	84.1	85.8	90.8	91.0	92.2	92.3	92.3	94.1	94.1	94.5	95.1	95.3	95.7	96.1												
60	62.1	79.9	84.2	85.9	91.4	91.7	92.9	93.4	93.4	95.4	95.4	95.8	96.4	96.6	97.0	97.5												
40	62.1	80.5	84.9	86.6	92.4	92.6	93.8	94.3	94.3	96.4	96.4	96.7	97.3	97.6	97.9	98.4												
20	62.2	80.6	85.0	86.7	92.5	92.8	94.0	94.5	94.5	96.5	96.5	96.9	97.5	97.7	98.1	98.6												
10	62.2	80.8	85.3	87.0	92.8	93.0	94.5	94.9	94.9	97.0	97.0	97.3	97.9	98.2	98.6	99.0												
8	62.2	80.8	85.3	87.2	93.1	93.4	94.8	95.3	95.3	97.3	97.3	97.7	98.3	98.6	98.9	99.4												
6	62.2	80.8	85.3	87.2	93.1	93.4	94.8	95.3	95.3	97.7	97.7	98.1	98.7	98.9	99.3	99.8												
4	62.2	80.8	85.3	87.2	93.1	93.4	94.8	95.3	95.3	97.7	97.7	98.1	98.7	98.9	99.3	99.8												
2	62.2	80.8	85.3	87.2	93.1	93.4	94.8	95.3	95.3	97.7	97.7	98.1	98.7	98.9	99.3	99.8												
1	62.2	80.8	85.3	87.2	93.1	93.4	94.8	95.3	95.3	97.7	97.7	98.1	98.7	98.9	99.3	99.8												
0	62.2	80.8	85.3	87.2	93.1	93.4	94.8	95.3	95.3	97.7	97.7	98.1	98.7	98.9	99.3	99.8												

TOTAL NUMBER OF OBSERVATIONS

829

CEILING VERSUS VISIBILITY

73-31

MAY

0320-0500

TOTAL NUMBER OF OBSERVATIONS 826

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

CEILING VERSUS VISIBILITY

73-81

MAY

600-9600

TOTAL NUMBER OF OBSERVATIONS 835

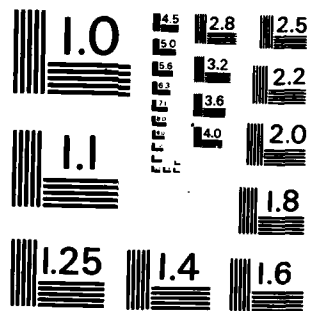
USAF ETAC 0-14.5 POL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

AD-A122 708 RAMSTEIN AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A. 21 JUL 82
UNCLASSIFIED USAFETAC/DS-82/043 SRI-AD-ESBO 302 F/G 4/2

RAHSTEIN AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A. 21 JUL 82
USAFETAC/DS-82/043 SMI-AD-ESBO 302 F/G 4/2

315

NL



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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET		VISIBILITY STATUTE MILES															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. 15000	20000	37.9	36.2	36.9	37.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	17000	36.5	44.2	45.1	46.2	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2 18000	20000	37.1	44.7	45.6	46.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
	17000	37.1	44.8	45.7	46.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2 19000	20000	37.1	45.0	46.0	47.1	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
	17000	37.4	45.6	46.8	47.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
2 20000	20000	38.6	47.3	48.5	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
	17000	39.2	48.3	49.5	50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2 21000	20000	42.3	52.1	53.3	54.5	55.9	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
	17000	43.0	53.2	54.5	55.8	57.7	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2 22000	20000	43.4	53.8	55.1	56.4	58.3	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
	17000	44.4	56.4	58.0	59.3	61.9	61.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
2 23000	20000	45.6	57.8	59.5	61.0	63.8	63.8	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
	17000	48.1	61.8	63.8	65.4	68.4	68.4	68.9	68.9	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2
2 24000	20000	51.1	65.6	67.8	69.3	73.4	73.4	73.9	74.1	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4
	17000	57.8	74.3	76.8	78.4	82.8	82.8	83.2	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8
2 25000	20000	60.1	77.1	79.6	81.6	86.1	86.1	86.7	86.9	86.9	87.3	87.3	87.3	87.3	87.3	87.3	87.3
	17000	61.4	78.8	81.6	83.6	88.4	88.5	89.1	89.3	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2 26000	20000	61.8	79.3	82.0	84.2	89.0	89.1	89.7	89.9	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4
	17000	63.4	82.0	84.9	87.1	92.3	92.5	93.2	93.4	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2 27000	20000	63.7	82.4	85.5	87.9	93.8	93.9	94.6	95.0	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4
	17000	64.4	83.2	86.5	88.9	95.0	95.1	95.8	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 28000	20000	64.7	83.5	86.7	89.2	95.6	95.7	96.4	96.8	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	17000	64.7	83.5	86.8	89.3	95.7	95.9	96.8	97.1	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2 29000	20000	64.7	83.5	86.8	89.3	96.4	96.8	97.6	98.2	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
	17000	64.7	83.5	86.8	89.3	96.4	97.0	97.8	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
2 30000	20000	64.7	83.5	86.8	89.3	96.5	97.1	98.1	98.9	99.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	17000	64.7	83.5	86.8	89.3	96.5	97.1	98.1	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 31000	20000	64.7	83.5	86.8	89.3	96.5	97.1	98.1	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	17000	64.7	83.5	86.8	89.3	96.5	97.1	98.1	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 32000	20000	64.7	83.5	86.8	89.3	96.5	97.1	98.1	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	17000	64.7	83.5	86.8	89.3	96.5	97.1	98.1	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 FARMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1230-1400

CEILING (FEET)		VISIBILITY STATISTICS															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. OF OBSERVATIONS		37.9	35.2	35.6	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 2000		39.1	46.2	46.7	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 1800		39.3	46.6	47.1	47.3	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1600		39.4	46.7	47.2	47.4	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥ 1400		39.4	46.7	47.2	47.4	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥ 1200		39.7	47.2	48.0	48.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 1000		41.7	49.5	50.3	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 900		41.9	49.8	50.7	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 800		44.6	52.9	53.8	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 700		45.6	54.2	55.1	55.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 600		46.8	55.6	56.4	56.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 500		49.1	58.4	59.3	59.5	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 450		51.6	61.5	62.4	62.6	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 400		55.6	66.1	66.9	67.5	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 350		62.4	74.0	74.9	75.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 300		70.5	82.9	84.2	84.9	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 250		72.2	86.3	87.6	88.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 200		74.1	88.6	90.1	91.3	93.3	93.3	93.4	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1800		74.4	89.0	90.4	91.6	93.8	93.8	93.9	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1500		75.5	90.7	92.2	93.5	95.7	95.7	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200		75.7	91.0	92.7	94.0	96.3	96.3	96.5	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000		76.3	91.6	93.4	94.9	97.6	97.6	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900		76.3	91.6	93.4	94.9	97.6	97.6	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800		76.3	91.6	93.5	95.1	97.8	97.8	98.2	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700		76.3	91.6	93.5	95.1	97.8	98.0	98.3	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600		76.3	91.6	93.5	95.1	97.8	98.0	98.6	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		76.3	91.6	93.5	95.1	98.0	98.3	98.9	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		76.3	91.6	93.5	95.1	98.0	98.3	98.9	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		76.3	91.6	93.5	95.1	98.0	98.3	98.9	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		76.3	91.6	93.5	95.1	98.0	98.3	98.9	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		76.3	91.6	93.5	95.1	98.0	98.3	98.9	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		76.3	91.6	93.5	95.1	98.0	98.3	98.9	99.2	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 RAMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING (FEET)		VISIBILITY (STATUTES MILES)															
		10	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76
NO. OBS.	20000	31.7	36.3	36.6	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
	18000	39.7	46.7	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
2	16000	40.1	47.4	47.7	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
	14000	40.4	47.7	47.9	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
3	12000	40.4	47.8	48.1	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
	10000	41.2	48.7	49.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
4	8000	43.8	51.6	52.0	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.6
	6000	44.6	52.8	53.2	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.8
5	4000	48.5	57.8	58.2	58.5	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	59.7
	2000	49.6	59.5	59.9	60.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.7
6	5000	50.5	60.7	61.1	61.4	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9
	3000	52.3	63.0	63.3	63.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9
7	4500	55.7	67.7	68.1	68.6	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.7
	4000	60.1	72.6	73.0	73.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8
8	3500	66.2	79.9	81.4	81.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3
	3000	73.4	87.8	88.6	89.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.9
9	2500	74.3	89.8	90.8	91.4	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.4
	2000	75.9	92.2	93.2	93.8	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.9
10	1800	75.9	92.2	93.2	94.0	95.9	95.9	95.9	95.9	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.2
	1500	76.6	93.3	94.5	95.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.8
11	1200	77.2	94.0	95.2	96.3	98.3	98.3	98.3	98.3	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.9
	1000	77.3	94.1	95.3	96.4	98.4	98.4	98.6	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2
12	900	77.3	94.1	95.3	96.4	98.7	98.7	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
	800	77.3	94.1	95.3	96.4	98.7	98.7	98.8	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5
13	700	77.3	94.1	95.3	96.4	98.7	98.7	98.8	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5
	600	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6
14	500	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0
	400	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0
15	300	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0
	200	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0
16	100	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0
	0	77.3	94.1	95.3	96.4	98.7	98.7	98.9	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 141 RAMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 20000	35.5	43.2	47.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.3
≥ 18000	44.2	51.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 16000	44.4	51.9	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 14000	44.4	51.9	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 12000	44.5	52.2	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 10000	45.0	52.8	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 8000	48.3	56.8	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	58.3
≥ 6000	50.0	58.6	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 4000	54.7	64.1	65.5	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 2000	57.7	68.0	69.3	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 1000	58.2	68.8	70.1	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 500	61.7	72.4	73.7	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 400	64.1	76.4	77.7	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 300	67.0	79.6	81.1	81.4	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 250	71.3	84.4	86.2	86.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 200	74.5	89.2	91.0	91.4	92.9	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 150	75.2	90.3	92.1	92.6	94.1	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 100	76.3	91.5	93.3	93.9	95.6	95.8	95.9	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 50	76.5	91.7	93.5	94.1	96.2	96.4	96.5	96.5	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 30	76.9	93.2	95.1	95.7	98.0	98.2	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 20	76.9	93.2	95.1	95.7	98.0	98.2	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 10	76.9	93.2	95.2	95.8	98.1	98.3	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 5	76.9	93.2	95.2	95.8	98.3	98.6	98.8	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 3	76.9	93.2	95.2	95.8	98.3	98.6	98.8	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2	76.9	93.2	95.2	95.8	98.7	98.9	99.2	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1	76.9	93.2	95.2	95.8	98.7	98.9	99.2	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	76.9	93.2	95.2	95.8	98.7	98.9	99.2	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	76.9	93.2	95.2	95.8	98.7	98.9	99.2	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	76.9	93.2	95.2	95.8	98.7	98.9	99.2	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	76.9	93.2	95.2	95.8	98.7	98.9	99.2	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 834

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
10000	39.7	47.6	48.2	49.0	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
8000	44.7	54.6	55.2	56.1	56.8	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
6000	44.7	54.8	55.4	56.4	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
4000	44.0	54.8	55.4	56.4	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2000	44.1	55.0	55.6	56.7	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
1000	48.3	59.7	60.7	61.8	62.6	62.6	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	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
800	48.9	60.4	61.4	62.5	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
600	53.0	64.7	65.7	66.9	67.7	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	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
400	54.6	67.4	68.3	69.5	70.7	70.7	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
200	55.3	68.5	69.4	70.6	71.8	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	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
100	59.3	73.5	74.5	75.7	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
80	62.4	77.8	78.8	80.1	81.5	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
60	65.0	81.3	82.3	83.6	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
40	66.8	83.3	85.0	86.5	88.2	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
20	68.0	85.1	86.9	88.5	90.5	90.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
10	68.1	85.5	87.3	89.0	91.4	91.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
8	69.2	86.8	88.8	90.5	93.3	93.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
6	69.3	87.2	89.2	90.9	93.6	93.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
4	69.5	87.8	89.9	92.1	95.3	95.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2	69.5	87.8	89.9	92.2	95.4	95.6	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1	69.5	87.8	89.9	92.3	95.7	95.8	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
0	69.5	87.8	90.0	92.6	96.0	96.2	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
1000	69.5	87.8	90.0	92.6	96.2	96.3	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
800	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
600	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
400	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
200	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
100	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
80	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
60	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
40	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
20	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
10	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
8	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
6	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
4	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
1	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
0	69.5	87.8	90.0	92.6	96.3	96.4	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 834

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	30.8	37.4	39.0	39.8	41.2	41.3	41.6	41.7	41.7	42.1	42.1	42.1	42.3	42.4	42.6	42.8
≥ 20000	36.1	44.7	46.3	47.3	48.9	49.0	49.3	49.5	49.5	49.9	50.0	50.0	50.1	50.3	50.5	50.7
≥ 18000	36.2	45.0	46.7	47.6	49.3	49.4	49.7	49.8	49.9	50.3	50.3	50.3	50.5	50.6	50.8	51.0
≥ 16000	36.3	45.1	46.8	47.7	49.3	49.5	49.8	49.9	50.0	50.4	50.4	50.4	50.6	50.7	50.9	51.1
≥ 14000	36.3	45.2	46.8	47.8	49.5	49.6	49.9	50.1	50.1	50.5	50.5	50.6	50.7	50.9	51.1	51.2
≥ 12000	36.6	45.7	47.4	48.4	50.2	50.4	50.7	50.8	50.9	51.3	51.3	51.3	51.4	51.6	51.8	52.0
≥ 10000	39.1	49.6	50.5	51.5	53.4	53.6	53.9	54.0	54.1	54.5	54.5	54.6	54.7	54.9	55.1	55.3
≥ 9000	39.8	49.6	51.6	52.5	54.5	54.6	54.9	55.1	55.2	55.6	55.6	55.6	55.8	55.9	56.2	56.3
≥ 8000	43.3	54.0	56.0	57.1	59.4	59.5	59.9	60.0	60.1	60.6	60.6	60.6	60.8	61.0	61.2	61.3
≥ 7000	44.7	55.9	58.0	59.2	61.6	61.7	62.2	62.3	62.4	62.9	62.9	62.9	63.1	63.3	63.6	63.7
≥ 6000	45.3	56.8	58.9	60.1	62.5	62.6	63.1	63.2	63.3	63.8	63.8	63.8	64.0	64.2	64.5	64.6
≥ 5000	47.7	60.0	62.2	63.5	66.3	66.5	66.9	67.1	67.2	67.7	67.8	67.8	68.0	68.2	68.4	68.6
≥ 4500	50.3	63.6	66.0	67.3	70.3	70.4	70.9	71.1	71.2	71.7	71.7	71.8	72.0	72.2	72.5	72.7
≥ 4000	53.4	67.5	70.1	71.6	74.7	74.9	75.4	75.7	75.8	76.3	76.4	76.4	76.6	76.8	77.1	77.4
≥ 3500	56.7	71.6	74.5	76.1	79.7	79.9	80.5	80.7	80.8	81.3	81.4	81.5	81.7	81.9	82.2	82.4
≥ 3000	60.5	76.4	79.4	81.1	85.1	85.3	86.0	86.3	86.4	87.0	87.1	87.1	87.4	87.5	87.8	88.1
≥ 2500	61.5	77.9	81.0	82.8	87.0	87.2	87.9	88.2	88.3	89.0	89.1	89.1	89.3	89.5	89.8	90.1
≥ 2000	62.7	79.6	82.9	84.7	89.1	89.4	90.2	90.5	90.6	91.3	91.4	91.4	91.7	91.8	92.1	92.4
≥ 1800	62.9	80.1	83.3	85.2	89.7	90.0	90.8	91.1	91.3	92.0	92.1	92.1	92.3	92.5	92.8	93.1
≥ 1500	63.8	81.7	85.0	87.1	92.0	92.3	93.3	93.6	93.8	94.6	94.7	94.7	95.0	95.1	95.4	95.7
≥ 1200	64.0	82.0	85.5	87.6	92.8	93.1	94.1	94.6	94.8	95.7	95.8	95.8	96.0	96.2	96.5	96.8
≥ 1000	64.3	82.5	86.0	88.2	93.6	93.9	95.0	95.5	95.7	96.6	96.7	96.7	96.9	97.1	97.4	97.7
≥ 900	64.3	82.5	86.1	88.3	93.8	94.1	95.2	95.7	96.0	96.8	96.9	97.0	97.2	97.3	97.7	97.9
≥ 800	64.3	82.6	86.1	88.4	94.0	94.3	95.5	96.1	96.3	97.2	97.3	97.4	97.6	97.8	98.1	98.3
≥ 700	64.4	82.6	86.2	88.5	94.3	94.7	95.9	96.5	96.8	97.7	97.8	97.9	98.1	98.2	98.6	98.8
≥ 600	64.4	82.6	86.2	88.5	94.3	94.7	96.0	96.6	96.9	97.9	98.1	98.1	98.3	98.5	98.8	99.1
≥ 500	64.4	82.6	86.2	88.5	94.4	94.8	96.1	96.8	97.2	98.3	98.4	98.5	98.7	98.9	99.2	99.4
≥ 400	64.4	82.6	86.2	88.5	94.4	94.8	96.1	96.8	97.2	98.3	98.4	98.5	98.7	98.9	99.2	99.4
≥ 300	64.4	82.6	86.2	88.5	94.4	94.8	96.1	96.8	97.3	98.4	98.5	98.6	98.8	99.0	99.3	99.6
≥ 200	64.4	82.6	86.2	88.5	94.4	94.8	96.1	96.8	97.3	98.4	98.5	98.6	98.9	99.1	99.6	99.9
≥ 100	64.4	82.6	86.2	88.5	94.4	94.8	96.1	96.8	97.3	98.4	98.5	98.6	98.9	99.1	99.6	100.0
≥ 0	64.4	82.6	86.2	88.5	94.4	94.8	96.1	96.8	97.3	98.4	98.5	98.6	98.9	99.1	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 6667

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 1140 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

FEET		VISIBILITY IN STATUTE MILES															
		1/2	3/4	1	1 1/4	1 1/2	2	3	4	5	6	7	8	9	10	11	12
1000	1/2	37.2	45.1	47.9	48.1	49.8	49.8	50.5	50.5	50.7	51.9	52.0	52.0	52.3	52.5	53.5	53.7
900	1/2	39.4	47.5	51.5	52.1	53.7	53.7	54.6	54.6	54.9	56.3	56.4	56.4	56.8	56.9	57.9	58.1
800	1/2	39.4	47.5	51.5	52.1	53.7	53.7	54.6	54.6	54.9	56.3	56.4	56.4	56.8	56.9	57.9	58.1
700	1/2	39.4	47.5	51.5	52.1	53.7	53.7	54.6	54.6	54.9	56.3	56.4	56.4	56.8	56.9	57.9	58.1
600	1/2	39.4	47.5	51.5	52.1	53.7	53.7	54.6	54.6	54.9	56.3	56.4	56.4	56.8	56.9	57.9	58.1
500	1/2	41.2	49.9	54.0	54.6	56.3	56.3	57.3	57.3	57.7	59.0	59.1	59.1	59.5	59.6	60.6	60.9
400	1/2	42.0	50.6	54.8	55.6	57.3	57.3	58.3	58.3	58.6	60.0	60.1	60.1	60.5	60.7	61.7	62.0
300	1/2	45.7	55.4	59.6	60.4	62.2	62.2	63.2	63.2	63.6	64.9	65.1	65.1	65.4	65.7	66.7	66.9
200	1/2	46.7	56.4	60.6	61.4	63.2	63.2	64.2	64.2	64.6	65.9	66.0	66.0	66.4	66.7	67.7	67.9
100	1/2	46.8	56.5	60.7	61.5	63.3	63.3	64.3	64.3	64.7	66.0	66.2	66.2	66.5	66.8	67.8	68.0
50	1/2	50.1	60.4	65.2	66.0	68.1	68.1	69.3	69.3	69.6	71.1	71.2	71.2	71.7	72.0	73.0	73.3
25	1/2	53.7	64.8	70.5	71.7	74.6	74.6	75.7	75.7	76.0	77.7	77.8	77.8	78.3	78.5	79.6	80.0
10	1/2	55.9	67.4	73.1	74.4	77.7	77.7	78.8	78.8	79.1	80.7	80.9	80.9	81.4	81.6	82.7	83.1
5	1/2	60.2	72.5	78.3	79.6	83.2	83.2	84.3	84.4	84.8	86.4	86.5	86.5	87.0	87.3	88.4	88.8
2	1/2	61.5	74.1	80.0	81.4	85.2	85.2	86.3	86.4	86.8	88.5	88.6	88.6	89.1	89.4	90.5	90.9
1	1/2	62.0	75.2	81.1	82.6	86.5	86.5	88.0	88.1	88.5	90.6	90.7	90.7	91.2	91.5	92.6	93.0
1/2	1/2	63.7	77.2	83.5	84.9	89.3	89.3	90.9	91.0	91.4	93.5	93.6	93.6	94.1	94.3	95.4	95.8
1/4	1/2	63.8	77.3	83.6	85.1	89.4	89.4	91.0	91.1	91.5	93.7	93.8	93.8	94.3	94.6	95.7	96.0
1/8	1/2	64.2	78.0	84.4	85.9	90.4	90.5	92.3	92.5	92.8	95.1	95.2	95.2	95.8	96.0	97.2	97.5
1/16	1/2	64.2	78.0	84.4	86.2	90.6	90.7	92.6	92.7	93.1	95.3	95.4	95.6	96.2	96.4	97.5	97.9
1/32	1/2	64.3	78.3	84.8	86.4	91.1	91.4	93.2	93.3	93.7	95.9	96.0	96.2	96.8	97.0	98.1	98.5
1/64	1/2	64.7	78.6	85.2	86.8	91.5	91.7	93.6	93.7	94.1	96.3	96.4	96.5	97.2	97.4	98.5	98.9
1/128	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.7	96.8	97.4	97.7	98.8	99.1
1/256	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.7	96.8	97.4	97.7	98.8	99.1
1/512	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/1024	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/2048	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/4096	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/8192	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/16384	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/32768	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/65536	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/131072	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/262144	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/524288	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/1048576	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/2097152	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/4194304	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/8388608	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/16777216	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/33554432	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/67108864	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/134217728	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/268435456	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/536870912	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/1073741824	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/2147483648	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/4294967296	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/8589934592	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/17179869184	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/34359738368	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/68719476736	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/137438953472	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/274877906944	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/549755813888	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/1099511627776	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/2199023255552	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/4398046511104	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/8796093022208	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/17592186044416	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/35184372088832	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/70368744177664	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/140737488355328	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/281474976710656	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/562949953421312	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/1125899906842624	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.8	98.9	99.3
1/2251799813685248	1/2	64.7	78.6	85.2	86.9	91.7	92.0	93.8	94.0	94.3	96.5	96.8	96.9	97.5	97.		

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14-73 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2300-2500

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING	20.6	27.0	31.6	32.0	39.0	39.2	40.5	41.4	41.5	42.5	42.8	42.9	43.2	43.6	44.7	45.2
≥ 2000	21.9	28.7	33.3	33.8	41.1	41.3	42.6	43.6	43.9	45.1	45.4	45.5	46.1	46.6	47.7	48.2
≥ 1800	21.9	28.7	33.3	33.8	41.1	41.3	42.6	43.6	43.9	45.1	45.4	45.5	46.1	46.6	47.7	48.2
≥ 1600	21.9	28.7	33.3	33.8	41.1	41.3	42.6	43.6	43.9	45.1	45.4	45.5	46.1	46.6	47.7	48.2
≥ 1400	21.9	28.7	33.3	33.8	41.1	41.3	42.6	43.6	43.9	45.1	45.4	45.5	46.1	46.6	47.7	48.2
≥ 1200	21.9	28.7	33.3	33.8	41.1	41.3	42.6	43.6	43.9	45.1	45.4	45.5	46.1	46.6	47.7	48.2
≥ 1000	24.2	31.1	35.9	36.4	43.7	43.9	45.4	46.3	46.6	48.0	48.2	48.3	48.9	49.4	50.6	51.1
≥ 900	25.0	32.0	36.8	37.3	44.9	45.0	46.5	47.5	47.7	49.1	49.4	49.6	50.2	50.7	51.9	52.4
≥ 800	28.9	36.3	41.8	42.3	50.1	50.2	51.7	52.7	53.0	54.8	55.1	55.3	55.9	56.4	57.6	58.1
≥ 700	29.6	37.1	42.8	43.2	51.3	51.4	52.9	53.9	54.3	56.0	56.4	56.5	57.1	57.6	58.9	59.4
≥ 600	30.0	37.4	43.1	43.6	51.7	51.8	53.3	54.3	54.6	56.4	56.8	56.9	57.5	58.0	59.2	59.7
≥ 500	32.2	40.4	46.3	47.2	55.5	55.6	57.2	58.2	58.6	60.5	60.8	61.0	61.8	62.5	63.9	64.4
≥ 450	35.3	44.2	50.9	52.0	60.5	60.7	62.7	63.7	64.1	66.2	66.5	66.7	67.5	68.2	69.6	70.1
≥ 400	40.1	49.6	56.5	57.6	67.3	67.5	69.5	70.5	70.9	73.0	73.4	73.5	74.3	75.0	76.5	77.0
≥ 350	43.7	53.8	61.1	62.2	72.7	73.0	75.2	76.3	76.7	78.8	79.2	79.3	80.2	80.8	82.4	82.9
≥ 300	46.2	56.6	64.2	65.3	76.5	77.0	79.3	80.4	80.9	83.0	83.4	83.5	84.5	85.1	86.7	87.6
≥ 250	46.4	57.2	64.9	66.0	77.2	77.7	80.2	81.3	81.8	84.1	84.5	84.6	85.6	86.2	87.9	88.7
≥ 200	47.8	58.6	66.3	67.4	78.9	79.4	82.0	83.1	83.8	86.4	86.7	86.9	87.9	88.5	90.1	91.0
≥ 1800	48.2	59.1	66.8	67.9	79.4	79.9	82.5	83.6	84.3	86.9	87.2	87.4	88.4	89.0	90.6	91.4
≥ 1600	49.3	60.6	68.4	69.8	82.2	82.7	85.6	86.9	87.5	90.1	90.5	90.6	91.6	92.2	93.8	94.7
≥ 1400	49.7	61.1	69.0	70.4	82.8	83.3	86.2	87.6	88.2	90.8	91.2	91.4	92.4	93.1	94.7	95.5
≥ 1200	51.2	61.7	69.6	71.0	83.6	84.5	87.6	89.0	89.6	92.2	92.6	92.8	93.8	94.5	96.3	97.1
≥ 1000	50.6	62.1	70.1	71.5	84.1	85.0	88.2	89.7	90.3	92.9	93.3	93.6	94.5	95.3	97.0	97.9
≥ 900	50.6	62.1	70.1	71.7	84.4	85.3	88.5	90.0	90.6	93.2	93.6	93.8	94.8	95.5	97.3	98.1
≥ 800	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.3	93.7	93.9	94.9	95.7	97.4	98.3
≥ 700	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.8	97.5	98.4
≥ 600	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.8	97.5	98.4
≥ 500	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.8	97.5	98.4
≥ 400	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.8	97.5	98.4
≥ 300	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.9	97.6	98.5
≥ 200	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.9	97.6	99.1
≥ 100	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	95.9	97.8	99.9
≥ 0	50.6	62.1	70.1	71.9	84.5	85.4	88.6	90.1	90.7	93.4	93.8	94.1	95.0	96.0	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATC WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 141 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	>10	26	21	24	20	11	21	37	21	2	24	24	2	25	21	2
NO CEILING	17.7	24.7	27.0	29.5	36.3	36.3	37.0	37.8	38.1	38.6	38.6	38.8	38.8	39.7	39.1	39.5
2000	19.6	26.7	30.1	32.6	39.8	39.8	40.5	41.2	41.7	42.5	42.5	42.7	42.8	43.3	43.7	44.1
1800	19.8	26.8	30.4	32.8	40.1	40.1	40.9	41.6	42.1	42.8	42.8	43.1	43.2	43.7	44.1	44.4
1600	19.8	26.8	30.4	32.8	40.1	40.1	40.9	41.6	42.1	42.8	42.8	43.1	43.2	43.7	44.1	44.4
1400	19.8	26.8	30.4	32.8	40.1	40.1	40.9	41.6	42.1	42.8	42.8	43.1	43.2	43.7	44.1	44.4
1200	19.9	26.9	30.5	33.0	40.2	40.2	41.0	41.7	42.2	43.0	43.0	43.2	43.3	43.8	44.2	44.6
1000	21.6	28.8	32.3	34.8	42.2	42.2	43.0	43.7	44.2	44.9	44.9	45.2	45.3	45.9	46.3	46.7
900	22.5	29.6	33.2	35.7	43.8	43.8	44.7	45.4	45.9	46.8	46.8	47.0	47.2	47.8	48.1	48.6
800	24.9	32.5	36.2	38.8	48.3	48.3	49.4	50.1	50.6	51.6	51.6	51.9	52.0	52.6	53.0	53.6
700	25.7	33.5	37.2	39.8	49.5	49.5	50.7	51.5	52.1	53.1	53.1	53.3	53.5	54.2	54.6	55.2
600	25.8	33.6	37.3	40.0	49.8	49.8	51.0	51.7	52.3	53.3	53.3	53.6	53.7	54.4	54.8	55.4
500	28.4	37.0	41.1	43.8	53.8	53.8	55.1	55.8	56.4	57.4	57.4	57.7	57.8	58.5	58.9	59.5
450	31.4	40.4	44.4	47.2	57.7	57.7	59.0	59.8	60.5	61.5	61.5	61.7	61.9	62.6	63.1	63.7
400	34.7	44.1	48.4	51.1	62.3	62.3	64.0	64.7	65.4	66.4	66.4	66.7	66.8	67.5	68.0	68.6
350	37.2	47.2	52.0	54.7	66.2	66.2	67.9	68.9	69.6	70.9	70.9	71.1	71.2	72.0	72.5	73.1
300	40.0	50.6	55.9	58.6	71.0	71.0	73.8	74.9	75.7	77.7	77.7	78.1	78.3	79.0	79.5	80.1
250	41.0	51.6	57.0	59.8	72.7	73.1	75.9	77.2	77.9	80.0	80.0	80.5	80.6	81.4	81.9	82.5
200	43.3	54.3	59.9	62.7	76.0	76.4	79.5	80.9	81.6	84.2	84.2	84.7	84.8	85.6	86.0	86.7
180	44.3	55.4	61.1	64.0	77.3	77.7	80.7	82.2	83.0	85.6	85.6	86.0	86.2	86.9	87.4	88.0
150	45.9	57.3	63.2	66.5	80.7	81.2	84.6	86.2	87.2	89.9	89.9	90.4	90.5	91.2	91.7	92.3
120	46.5	58.1	64.2	67.5	81.9	82.3	85.7	87.4	88.4	91.1	91.1	91.6	91.7	92.5	93.0	93.6
100	47.0	58.8	65.2	68.5	83.5	84.0	87.3	89.1	90.4	93.3	93.3	93.8	94.0	94.8	95.3	96.3
90	47.2	59.1	65.7	69.0	84.0	84.4	87.9	89.8	91.0	94.0	94.0	94.4	94.6	95.4	95.9	96.7
80	47.2	59.1	65.7	69.0	84.1	84.6	88.0	90.0	91.2	94.2	94.2	94.7	94.8	95.7	96.2	96.9
70	47.2	59.1	65.7	69.3	84.4	84.9	88.4	90.4	91.6	94.6	94.6	95.1	95.2	96.0	96.5	97.3
60	47.2	59.1	65.7	69.4	84.6	85.1	88.5	90.5	91.9	94.8	94.8	95.3	95.4	96.3	96.8	97.5
50	47.2	59.1	65.7	69.4	84.6	85.1	88.5	90.7	92.3	95.2	95.2	95.7	95.8	96.7	97.2	97.9
40	47.2	59.1	65.7	69.4	84.6	85.1	88.5	90.7	92.3	95.4	95.4	95.9	96.0	96.9	97.4	98.1
30	47.2	59.1	65.7	69.4	84.6	85.1	88.6	91.1	92.8	95.9	95.9	96.4	96.5	97.4	98.0	98.8
20	47.2	59.1	65.7	69.4	84.6	85.1	88.6	91.1	92.8	96.0	96.0	96.5	96.7	97.5	98.3	99.4
10	47.2	59.1	65.7	69.4	84.6	85.1	88.6	91.1	92.8	96.0	96.0	96.5	96.7	97.5	98.4	100.0
0	47.2	59.1	65.7	69.4	84.6	85.1	88.6	91.1	92.8	96.0	96.0	96.5	96.7	97.5	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AI- WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140

RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	32.3	36.7	37.7	38.3	39.2	39.2	39.3	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 20000	36.3	41.0	42.0	42.8	43.6	43.6	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
18000	36.8	41.5	42.5	43.3	44.1	44.1	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
15000	36.8	41.5	42.5	43.3	44.1	44.1	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
14000	37.2	41.9	42.9	43.6	44.5	44.5	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
12000	37.3	42.0	43.0	43.8	44.6	44.6	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
10000	39.1	44.1	45.1	45.9	46.7	46.7	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
9000	39.9	45.1	46.1	46.8	47.8	47.8	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
8000	42.9	48.5	49.4	50.2	52.2	52.3	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
7000	43.9	49.6	50.7	51.5	53.5	53.6	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
6000	44.5	50.3	51.5	52.4	54.4	54.5	54.6	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
5000	46.6	52.7	53.9	54.8	57.1	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
4500	48.7	54.9	56.2	57.1	59.5	59.6	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
4000	53.7	60.4	61.8	62.8	65.3	65.4	65.5	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
3500	58.1	65.8	67.5	68.7	71.4	71.6	71.7	72.1	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
3000	64.8	74.0	76.1	77.5	81.2	81.5	81.7	82.1	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
2500	65.6	75.8	77.9	79.2	83.2	83.4	83.7	84.1	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2000	69.0	80.0	82.3	83.8	88.0	88.3	88.5	89.1	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
1800	69.3	80.3	82.7	84.2	88.6	88.9	89.2	89.9	90.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
1500	71.2	82.9	85.4	87.4	92.3	92.6	93.0	93.6	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
1200	72.2	84.5	87.1	89.6	94.9	95.2	95.6	96.2	96.3	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1000	72.3	84.7	87.5	90.0	95.8	96.2	96.7	97.4	97.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
900	72.3	84.7	87.5	90.0	95.9	96.3	96.8	97.5	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
800	72.3	84.7	87.6	90.1	96.4	96.8	97.4	98.4	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
700	72.3	84.7	87.6	90.1	96.4	96.8	97.4	98.4	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
600	72.3	84.7	87.6	90.1	96.5	96.9	97.5	98.5	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
500	72.3	84.7	87.6	90.1	96.7	97.0	97.7	98.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
400	72.3	84.7	87.6	90.1	96.7	97.0	97.8	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	72.3	84.7	87.6	90.1	96.7	97.0	97.8	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	72.3	84.7	87.6	90.1	96.7	97.0	97.8	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	72.3	84.7	87.6	90.1	96.7	97.0	97.8	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	72.3	84.7	87.6	90.1	96.7	97.0	97.8	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-147 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO. OF OBS.	32.5	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	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	
27000	38.6	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	
26000	39.6	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	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	
25000	39.6	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	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	
24000	40.5	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	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	
23000	40.5	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	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	
22000	44.1	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	
21000	44.6	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	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	
20000	46.8	51.4	51.4	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	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	
19000	47.0	52.0	52.0	52.0	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	
18000	47.3	52.2	52.2	52.2	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
17000	50.7	55.9	55.9	55.9	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	
16000	53.7	58.9	59.0	59.0	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	
15000	61.1	66.5	66.7	66.8	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	
14000	67.8	74.1	74.7	74.8	75.8	76.0	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	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
13000	78.0	85.4	86.2	86.5	87.8	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	
12000	80.1	87.9	88.6	89.0	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	
11000	81.7	90.1	91.1	91.5	93.0	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	
10000	82.6	91.0	92.0	92.3	93.8	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
9000	83.3	92.2	93.6	94.1	96.8	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
8000	83.3	92.6	94.0	94.6	97.3	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	
7000	83.3	92.6	94.0	94.7	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	
6000	83.3	92.6	94.0	94.9	98.1	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
5000	83.3	92.6	94.0	95.1	98.5	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
4000	83.3	92.6	94.0	95.1	98.5	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
3000	83.3	92.6	94.0	95.1	98.5	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
2000	83.3	92.6	94.0	95.1	98.5	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
1000	83.3	92.6	94.0	95.1	98.5	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
0	83.3	92.6	94.0	95.1	98.5	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	

TOTAL NUMBER OF OBSERVATIONS 810

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

2

73-81

439

1500-1700

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

		VISIBILITY (STATUTE MILES)															
		2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5
1	1000	38.8	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
2	900	49.1	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
3	800	49.6	52.8	53.7	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
4	700	49.4	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	53.2	53.2
5	600	50.5	53.8	54.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
6	500	54.8	58.9	59.0	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
7	400	55.2	59.5	59.8	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
8	300	62.2	67.0	67.4	67.4	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
9	200	63.8	68.5	68.9	68.9	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
10	100	63.8	68.9	69.3	69.4	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
11	50	67.7	73.1	73.5	73.6	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
12	40	71.2	77.3	77.9	78.0	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
13	30	76.7	84.0	84.6	85.1	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
14	20	79.1	86.9	87.9	88.4	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
15	10	81.7	90.4	91.6	92.5	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
16	5	82.5	91.4	92.6	93.8	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
17	2	83.1	92.1	93.7	94.9	96.5	96.5	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
18	1	83.1	92.3	94.0	95.2	96.9	96.9	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
19	0.5	83.5	93.1	94.8	96.0	98.8	98.8	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
20	0.25	83.5	93.1	94.9	96.4	99.1	99.1	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
21	0.1	83.5	93.1	94.9	96.5	99.3	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
22	0.05	83.5	93.1	94.9	96.5	99.3	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
23	0.025	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
24	0.01	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25	0.005	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
26	0.0025	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
27	0.001	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
28	0.0005	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29	0.00025	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30	0.0001	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
31	0.00005	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
32	0.000025	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
33	0.00001	83.5	93.1	94.9	96.5	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	10	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
NO CEILING 20000	38.9	43.2	43.7	44.0	44.6	44.6	44.9	44.9	45.1	45.1	45.2	45.2	45.3	45.4	45.9	45.9
18000	45.8	50.9	51.6	52.0	52.6	52.6	53.0	53.0	53.1	53.1	53.2	53.2	53.3	53.5	54.0	54.0
16000	45.8	51.1	51.9	52.2	52.8	52.8	53.2	53.2	53.3	53.3	53.5	53.5	53.6	53.7	54.2	54.2
14000	46.4	51.7	52.5	52.8	53.5	53.5	53.8	53.8	54.0	54.0	54.1	54.1	54.2	54.3	54.8	54.8
12000	46.5	51.9	52.6	53.0	53.6	53.6	54.0	54.0	54.1	54.1	54.2	54.2	54.3	54.4	54.9	54.9
10000	49.5	55.3	56.3	56.7	57.7	57.7	58.3	58.3	58.5	58.5	58.6	58.6	58.8	58.9	59.5	59.5
9000	49.8	55.6	56.5	57.0	58.1	58.1	58.9	58.9	59.1	59.1	59.3	59.3	59.4	59.5	60.1	60.1
8000	54.6	60.9	62.5	63.0	64.4	64.4	65.2	65.2	65.6	65.6	65.7	65.7	65.8	65.9	66.5	66.5
7000	55.9	62.5	64.1	64.6	66.0	66.0	66.8	66.8	67.2	67.2	67.3	67.3	67.4	67.5	68.1	68.1
6000	55.9	62.5	64.1	64.6	66.0	66.0	66.8	66.8	67.2	67.2	67.3	67.3	67.4	67.5	68.1	68.1
5000	59.8	67.3	68.9	69.4	71.1	71.1	71.9	71.9	72.2	72.2	72.3	72.3	72.5	72.6	73.2	73.2
4500	65.3	73.8	75.4	76.2	78.1	78.1	78.9	78.9	79.3	79.3	79.4	79.4	79.5	79.6	80.2	80.2
4000	68.1	77.4	79.4	80.1	82.5	82.5	83.2	83.2	83.6	83.6	83.7	83.7	83.8	84.0	84.6	84.6
3500	70.5	80.1	82.5	83.2	85.9	85.9	86.8	86.8	87.2	87.2	87.3	87.3	87.4	87.5	88.1	88.1
3000	72.6	82.8	85.7	86.4	89.8	89.8	90.6	90.6	91.0	91.0	91.1	91.1	91.2	91.4	92.0	92.0
2500	73.5	84.0	86.9	88.3	92.1	92.1	93.3	93.3	93.8	93.8	94.0	94.0	94.1	94.2	94.8	94.8
2000	74.7	85.2	88.1	89.8	93.8	93.8	95.6	95.6	96.0	96.2	96.3	96.3	96.4	96.5	97.2	97.2
1800	74.8	85.3	88.3	90.0	94.1	94.1	95.8	95.8	96.3	96.4	96.5	96.5	96.7	96.8	97.4	97.4
1500	75.1	85.8	88.9	90.7	95.4	95.4	97.4	97.4	97.9	98.0	98.1	98.1	98.3	98.4	99.0	99.0
1200	75.3	86.2	89.3	91.1	95.8	95.8	97.9	97.9	98.4	98.5	98.6	98.6	98.8	98.9	99.5	99.5
1000	75.3	86.3	89.4	91.2	95.9	95.9	98.0	98.0	98.5	98.6	98.8	98.8	98.9	99.0	99.6	99.6
900	75.3	86.4	89.5	91.4	96.0	96.0	98.1	98.1	98.6	98.8	98.9	98.9	99.0	99.1	99.8	99.8
800	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	99.9
700	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	99.9
600	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	99.9
500	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	100.0
400	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	100.0
300	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	100.0
200	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	100.0
100	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	100.0
0	75.3	86.4	89.5	91.4	96.0	96.0	98.3	98.3	98.8	98.9	99.0	99.0	99.1	99.3	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

FROM FEET	VISIBILITY IN STATUTE MILES															
	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
2000	31.4	35.9	37.4	37.9	40.0	40.1	40.5	40.7	40.8	41.1	41.2	41.2	41.3	41.4	41.8	41.9
1800	36.7	41.8	43.6	44.1	46.4	46.4	46.8	47.1	47.2	47.6	47.7	47.7	47.9	48.0	48.4	48.5
1600	37.1	42.2	44.0	44.5	46.8	46.8	47.2	47.5	47.6	48.0	48.1	48.1	48.3	48.5	48.8	49.0
1400	37.1	42.2	44.1	44.5	46.8	46.8	47.2	47.5	47.6	48.0	48.1	48.1	48.3	48.5	48.8	49.0
1200	37.3	42.5	44.2	44.8	47.0	47.0	47.5	47.7	47.9	48.3	48.3	48.4	48.5	48.7	49.1	49.2
1000	37.6	42.7	44.5	45.1	47.3	47.3	47.7	48.0	48.1	48.6	48.6	48.7	48.8	49.0	49.4	49.5
800	40.4	45.9	47.7	48.3	50.6	50.6	51.1	51.4	51.6	52.0	52.1	52.1	52.3	52.4	52.8	52.9
600	41.0	46.5	48.4	49.0	51.5	51.5	52.1	52.3	52.5	52.9	53.0	53.1	53.2	53.4	53.8	54.0
400	45.2	51.3	53.4	54.0	57.0	57.0	57.6	57.8	58.0	58.5	58.6	58.6	58.8	59.0	59.4	59.5
200	46.1	52.4	54.5	55.2	58.2	58.3	58.8	59.1	59.3	59.8	59.9	59.9	60.1	60.3	60.7	60.9
100	46.4	52.7	54.8	55.6	58.6	58.6	59.2	59.4	59.7	60.2	60.2	60.3	60.4	60.6	61.0	61.2
50	49.6	56.5	58.7	59.5	62.7	62.8	63.4	63.6	63.8	64.4	64.5	64.5	64.7	64.9	65.3	65.5
25	52.4	60.4	62.9	63.8	67.2	67.3	67.9	68.2	68.4	69.0	69.1	69.1	69.3	69.5	70.0	70.2
12.5	57.6	65.7	68.4	69.4	73.2	73.3	73.9	74.2	74.4	75.0	75.1	75.2	75.4	75.6	76.0	76.2
6.25	61.8	70.5	73.5	74.6	78.7	78.8	79.6	79.9	80.1	80.8	80.9	80.9	81.1	81.3	81.8	82.0
3.125	66.0	75.6	78.8	80.0	84.7	84.8	85.7	86.1	86.4	87.1	87.2	87.3	87.5	87.7	88.2	88.4
1.5625	67.1	76.9	80.2	81.6	86.5	86.6	87.7	88.1	88.4	89.2	89.3	89.4	89.6	89.8	90.3	90.5
0.78125	68.6	78.8	82.3	83.7	88.9	89.0	90.3	90.7	91.0	91.9	92.0	92.1	92.3	92.5	93.0	93.2
0.390625	69.0	79.3	82.8	84.2	89.4	89.6	90.8	91.3	91.6	92.6	92.6	92.7	92.9	93.2	93.6	93.9
0.1953125	69.9	80.6	84.3	86.0	91.8	92.0	93.5	93.9	94.3	95.4	95.4	95.5	95.7	96.0	96.4	96.7
0.09765625	70.2	81.1	84.9	86.7	92.7	92.9	94.4	94.8	95.2	96.3	96.4	96.5	96.7	96.9	97.4	97.6
0.048828125	70.4	81.3	85.2	87.0	93.3	93.6	95.1	95.6	96.0	97.1	97.2	97.3	97.5	97.7	98.2	98.5
0.0244140625	70.5	81.5	85.3	87.3	93.5	93.8	95.4	95.9	96.3	97.4	97.5	97.6	97.8	98.0	98.5	98.8
0.01220703125	70.5	81.5	85.4	87.4	93.7	94.1	95.6	96.2	96.6	97.7	97.8	97.9	98.1	98.4	98.9	99.1
0.006103515625	70.5	81.5	85.4	87.4	93.8	94.1	95.7	96.3	96.7	97.8	97.9	98.0	98.2	98.5	98.9	99.2
0.0030517578125	70.5	81.5	85.4	87.4	93.8	94.2	95.7	96.3	96.8	97.9	98.0	98.1	98.3	98.5	99.0	99.3
0.00152587890625	70.5	81.5	85.4	87.4	93.9	94.2	95.8	96.4	96.9	98.0	98.1	98.2	98.4	98.6	99.1	99.4
0.000762939453125	70.5	81.5	85.4	87.4	93.9	94.2	95.8	96.4	96.9	98.0	98.1	98.2	98.3	98.5	98.7	99.2
0.0003814697265625	70.5	81.5	85.4	87.4	93.9	94.2	95.8	96.5	97.0	98.1	98.2	98.3	98.5	98.8	99.3	99.6
0.00019073486328125	70.5	81.5	85.4	87.4	93.9	94.2	95.8	96.5	97.0	98.1	98.2	98.3	98.5	98.8	99.4	99.7
0.000095367431640625	70.5	81.5	85.4	87.4	93.9	94.2	95.8	96.5	97.0	98.1	98.2	98.3	98.5	98.8	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6476

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

CEILING VERSUS VISIBILITY

73-81

JUL

0000-0200

TOTAL NUMBER OF OBSERVATIONS 836

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10140 RAMSTEIN AB DL

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY STATISTICAL															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	17.3	22.1	24.7	26.6	34.4	34.6	35.6	36.4	36.6	37.9	38.0	38.0	38.0	38.0	38.5	38.8
≥ 2000	18.2	23.2	25.4	28.2	37.0	37.3	38.5	39.3	39.4	40.7	40.9	40.9	40.9	40.9	41.3	41.7
≥ 1800	18.6	23.7	25.9	28.8	37.6	37.9	39.1	39.9	40.0	41.3	41.5	41.5	41.5	41.5	41.9	42.3
≥ 1600	18.6	23.7	25.9	28.8	37.6	37.9	39.1	39.9	40.0	41.3	41.5	41.5	41.5	41.5	41.9	42.3
≥ 1400	19.1	24.1	26.4	29.3	38.1	38.4	39.5	40.4	40.5	41.8	41.9	41.9	41.9	41.9	42.4	42.8
≥ 1200	19.6	24.7	27.2	30.2	39.1	39.3	40.5	41.3	41.5	42.8	42.9	42.9	42.9	42.9	43.4	43.7
≥ 1000	21.9	27.4	30.0	33.0	42.3	42.5	43.7	44.8	44.9	46.2	46.5	46.5	46.5	46.6	47.1	47.4
≥ 800	23.5	29.2	31.8	34.8	44.1	44.3	45.5	46.6	46.7	48.0	48.3	48.3	48.3	48.4	48.9	49.2
≥ 600	26.4	33.2	36.6	39.8	49.9	50.2	51.7	53.2	53.5	55.2	55.4	55.4	55.4	55.8	56.3	56.6
≥ 400	27.8	34.4	38.0	41.5	51.7	52.0	53.6	55.1	55.4	57.1	57.3	57.3	57.3	57.7	58.2	58.5
≥ 200	28.3	34.9	38.6	42.1	52.3	52.6	54.2	55.7	56.0	57.7	57.9	57.9	57.9	58.3	58.8	59.1
≥ 100	30.7	37.6	41.5	45.0	56.0	56.3	57.9	59.4	59.7	61.4	61.6	61.6	61.6	62.7	62.5	62.8
≥ 500	33.3	41.3	45.5	49.5	61.1	61.4	63.3	64.8	65.1	66.8	67.0	67.0	67.0	67.4	67.9	68.2
≥ 400	36.1	45.0	50.1	54.2	66.4	66.9	68.8	70.3	70.7	72.8	73.0	73.0	73.0	73.6	74.1	74.4
≥ 300	39.3	49.1	54.6	58.8	71.9	72.4	74.4	76.0	76.5	78.7	79.0	79.0	79.0	79.6	80.0	80.4
≥ 200	42.5	52.9	58.7	62.8	76.2	76.7	78.9	80.5	81.0	83.3	83.8	83.8	83.8	84.3	84.8	85.2
≥ 1500	43.6	54.4	60.1	64.3	77.8	78.3	80.4	82.1	82.6	84.8	85.3	85.3	85.3	85.9	86.4	86.7
≥ 1200	44.4	55.2	60.9	65.2	79.1	79.6	81.7	83.4	83.9	86.1	86.6	86.6	86.6	87.2	87.7	88.1
≥ 1000	44.8	55.4	61.2	65.5	79.3	79.8	82.0	83.6	84.1	86.4	86.9	86.9	86.9	87.5	87.9	88.3
≥ 800	47.0	58.5	64.5	69.2	83.6	84.3	86.5	88.4	89.1	91.5	92.0	92.0	92.0	92.6	93.1	93.4
≥ 600	47.9	59.7	65.7	70.5	85.2	85.9	88.2	90.1	91.0	93.4	93.9	93.9	93.9	94.5	95.0	95.3
≥ 400	48.5	60.3	66.5	71.4	86.7	87.5	89.7	91.6	92.6	95.1	95.6	95.6	95.6	96.2	96.7	97.0
≥ 200	48.6	60.5	66.7	71.6	87.1	87.9	90.2	92.2	93.2	95.7	96.2	96.2	96.2	96.8	97.3	97.6
≥ 100	48.6	60.5	66.9	71.8	87.3	88.2	90.4	92.5	93.4	95.9	96.4	96.4	96.4	97.0	97.5	97.8
≥ 500	48.6	60.5	66.9	71.8	87.3	88.5	90.8	92.8	93.8	96.3	96.8	96.8	96.8	97.4	97.8	98.2
≥ 400	48.6	60.5	66.9	71.8	87.5	88.8	91.2	93.2	94.1	96.7	97.1	97.1	97.1	97.7	98.2	98.6
≥ 300	48.6	60.5	66.9	71.8	87.6	88.9	91.3	93.3	94.3	96.8	97.3	97.3	97.3	97.8	98.3	98.7
≥ 200	48.6	60.5	66.9	71.8	87.6	88.9	91.3	93.3	94.3	96.9	97.4	97.4	97.4	98.0	98.4	98.8
≥ 100	48.6	60.5	66.9	71.8	87.6	88.9	91.3	93.3	94.3	96.9	97.5	97.5	97.5	98.1	98.6	99.3
≥ 50	48.6	60.5	66.9	71.8	87.6	88.9	91.3	93.3	94.3	96.9	97.6	97.6	97.6	98.2	98.7	99.8
≥ 0	48.6	60.5	66.9	71.8	87.6	88.9	91.3	93.3	94.3	96.9	97.6	97.6	97.6	98.2	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET		VISIBILITY STATUTE MILES																	
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5
NO. OF OBS.		27.1	37.6	31.9	33.0	34.3	34.6	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
1-2000		37.3	34.6	36.2	37.8	39.4	39.8	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
2-3000		37.9	34.9	36.4	38.0	39.7	40.0	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
3-4000		31.1	35.0	36.6	38.1	39.8	40.1	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
4-5000		31.5	35.6	37.3	38.8	40.5	40.9	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
5-6000		31.8	36.0	37.6	39.2	40.9	41.2	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
6-7000		33.5	38.4	40.0	41.9	44.3	44.9	45.2	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
7-8000		35.1	39.7	41.3	43.2	45.8	46.4	46.6	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
8-9000		38.8	44.1	45.8	48.0	50.9	51.6	52.1	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
9-10000		41.0	46.2	47.9	50.2	53.3	54.0	54.5	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
10-11000		41.9	47.2	48.9	51.1	54.4	55.1	55.6	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
11-12000		45.2	50.8	52.4	54.8	58.2	58.9	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
12-13000		47.8	53.6	55.4	57.8	61.2	61.9	62.5	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
13-14000		52.2	58.9	60.9	63.6	67.1	67.9	68.5	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
14-15000		57.0	63.9	66.7	69.5	73.7	74.4	75.0	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
15-16000		63.6	71.1	74.2	77.1	81.8	82.6	83.4	83.8	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
16-17000		65.7	73.6	76.9	79.9	84.8	85.5	86.4	86.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
17-18000		68.6	76.6	80.0	83.2	88.4	89.1	90.1	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
18-19000		69.4	77.4	81.0	84.1	89.5	90.2	91.0	91.4	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
19-20000		70.8	79.1	83.4	86.6	92.5	93.2	94.1	94.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
20-21000		71.7	80.0	84.6	88.1	94.5	95.2	96.2	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
21-22000		71.9	80.4	85.3	89.1	95.9	96.7	97.6	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
22-23000		71.9	80.4	85.4	89.2	96.4	97.1	98.1	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
23-24000		71.9	80.4	85.4	89.4	96.5	97.3	98.2	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
24-25000		71.9	80.5	85.5	89.5	96.8	97.5	98.4	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
25-26000		71.9	80.5	85.5	89.5	96.8	97.6	98.6	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
26-27000		71.9	80.5	85.5	89.5	96.9	97.7	98.7	99.0	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27-28000		71.9	80.5	85.5	89.5	96.9	97.7	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
28-29000		71.9	80.5	85.5	89.5	96.9	97.7	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
29-30000		71.9	80.5	85.5	89.5	96.9	97.7	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30-31000		71.9	80.5	85.5	89.5	97.0	97.8	98.8	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET		VISIBILITY STATUTE MILES															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1	2000	27.1	29.3	29.7	30.1	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2	1800	33.6	36.1	36.6	36.9	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
3	1600	34.2	36.8	37.3	37.6	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
4	1400	34.2	36.8	37.3	37.6	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
5	1200	34.5	37.2	37.6	38.0	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
6	1000	35.2	38.0	38.5	38.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
7	800	38.1	41.1	41.6	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
8	600	38.7	41.9	42.4	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
9	400	43.6	47.3	47.8	48.1	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
10	200	45.8	49.7	50.2	50.5	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
11	100	47.4	51.4	51.9	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
12	50	52.3	56.8	57.2	57.6	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
13	25	57.0	61.8	62.2	62.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
14	10	63.8	68.8	69.3	69.8	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
15	5	69.9	75.9	76.6	77.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
16	2	77.2	84.0	84.8	85.3	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
17	1	79.7	86.5	87.3	87.9	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
18	0.5	82.7	89.8	91.0	91.8	95.3	95.3	95.3	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
19	0.2	82.8	90.0	91.2	91.9	95.5	95.5	95.5	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
20	0.1	83.9	91.3	93.0	93.7	97.4	97.4	97.4	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
21	0.05	84.6	92.1	93.9	94.6	98.4	98.4	98.4	98.4	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8
22	0.02	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
23	0.01	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
24	0.005	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
25	0.002	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
26	0.001	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
27	0.0005	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
28	0.0002	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
29	0.0001	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
30	0.00005	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
31	0.00002	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8
32	0.00001	84.8	92.6	94.4	95.1	99.3	99.3	99.3	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 837

2

1

73-81

JUL

1530-1720

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-91

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1600-2000

ELEVATION		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
1	10000	39.5	42.1	42.2	42.2	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
2	9000	48.7	51.1	51.3	51.4	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
1	8000	48.9	52.1	52.2	52.3	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2	7000	48.9	52.1	52.2	52.3	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
1	6000	48.9	52.2	52.3	52.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2	5000	49.0	52.4	52.7	52.8	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
1	4000	53.2	56.9	57.1	57.2	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
2	3000	54.5	58.2	58.4	58.5	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
1	2000	61.4	65.5	65.7	66.2	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
2	1000	63.1	67.1	67.4	67.9	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
1	5000	64.2	68.3	68.6	69.1	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
2	4000	70.6	74.8	75.0	75.5	76.3	76.3	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
1	3000	75.5	80.2	80.8	81.2	82.1	82.1	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2	2000	79.8	84.6	85.2	85.7	86.6	86.6	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1	1000	83.6	88.8	89.6	90.1	91.2	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2	500	85.9	91.4	92.4	92.8	94.3	94.3	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1	2500	87.3	93.0	93.9	94.5	95.9	95.9	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
2	2000	88.1	93.7	94.6	95.3	96.8	96.8	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
1	1000	88.3	93.9	94.9	95.6	97.1	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2	500	88.5	94.4	95.5	96.4	98.1	98.1	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
1	200	88.6	94.5	95.6	96.5	98.4	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2	100	88.6	94.5	95.7	96.7	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
1	500	88.6	94.5	95.7	96.7	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2	200	88.6	94.5	95.7	96.7	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
1	100	88.6	94.5	95.7	96.7	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
1	500	88.6	94.6	95.8	96.8	98.9	98.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	400	88.6	94.6	95.8	96.8	98.9	98.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	300	88.6	94.6	95.8	96.8	98.9	98.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	200	88.6	94.6	95.8	96.8	98.9	98.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	100	88.6	94.6	95.8	96.8	98.9	98.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	50	88.6	94.6	95.8	96.8	98.9	98.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1443 RAMSTEIN AB DL

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	210	200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0
NO. OBS.	45.4	49.3	49.6	49.9	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2100	49.9	53.8	54.2	54.6	55.2	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2000	49.8	54.1	54.6	55.0	55.6	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
1900	49.9	54.2	54.7	55.1	55.7	56.0	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	56.2	56.2	56.2
1800	50.1	54.4	54.8	55.2	55.8	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
1700	50.3	54.6	55.1	55.6	56.3	56.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
1600	52.4	57.0	57.6	58.3	59.1	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
1500	53.3	57.8	58.4	59.1	60.0	60.3	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
1400	58.9	63.9	64.8	65.8	67.0	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
1300	59.9	64.9	65.8	66.9	68.3	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
1200	60.8	65.8	66.8	67.9	69.3	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
1100	65.9	71.7	72.6	74.0	75.4	75.7	76.0	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
1000	69.7	75.9	76.9	78.4	79.9	80.3	80.5	80.8	80.8	80.8	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
900	73.8	81.0	82.2	83.9	85.4	85.8	86.0	86.3	86.3	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
800	74.9	82.8	84.3	86.0	87.9	88.3	88.8	89.0	89.0	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
700	77.2	85.5	87.3	89.2	91.3	91.8	92.6	93.0	93.0	93.0	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
600	77.9	86.3	88.1	90.0	92.1	92.6	93.5	93.9	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
500	78.5	87.1	89.0	91.0	93.4	93.9	94.9	95.2	95.2	95.2	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
400	78.9	87.8	89.7	91.9	94.3	94.7	95.7	96.1	96.1	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
300	79.9	88.9	90.8	93.0	95.5	95.9	96.9	97.3	97.3	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
200	80.0	89.1	91.0	93.2	95.8	96.3	97.6	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
100	80.3	89.5	91.4	93.5	96.4	96.9	98.4	98.8	98.8	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0	80.5	89.7	91.6	93.8	96.8	97.3	98.8	99.2	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2100	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2000	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1900	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1800	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1700	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1600	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1500	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1400	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1300	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1200	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1100	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1000	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
900	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
800	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
700	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
600	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
500	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
400	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
300	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
200	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
100	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0	80.5	89.7	91.6	93.8	96.9	97.4	98.9	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	31.5	35.6	36.9	37.8	40.1	40.3	40.6	40.7	40.8	41.2	41.2	41.2	41.3	41.3	41.3	41.6
≥ 20000	36.1	40.5	41.9	43.0	45.4	45.6	46.0	46.2	46.3	46.6	46.7	46.7	46.7	46.8	47.0	47.1
≥ 18000	36.5	41.0	42.3	43.5	45.9	46.1	46.5	46.7	46.8	47.1	47.2	47.2	47.2	47.3	47.6	47.6
≥ 16000	36.5	41.0	42.4	43.5	46.0	46.2	46.5	46.7	46.8	47.2	47.2	47.2	47.3	47.4	47.6	47.7
≥ 14000	36.8	41.3	42.7	43.8	46.3	46.5	46.8	47.1	47.1	47.5	47.5	47.5	47.6	47.7	47.9	48.0
≥ 12000	37.2	41.7	43.1	44.3	46.8	47.0	47.3	47.6	47.6	48.0	48.0	48.0	48.1	48.2	48.4	48.5
≥ 10000	39.8	44.5	46.7	47.2	49.9	50.2	50.5	50.8	50.9	51.2	51.3	51.3	51.4	51.5	51.7	51.8
≥ 9000	40.8	45.6	47.1	48.3	51.1	51.3	51.7	51.9	52.0	52.4	52.4	52.4	52.5	52.6	52.8	52.9
≥ 8000	45.8	51.3	52.9	54.4	57.6	57.8	58.3	58.7	58.8	59.2	59.2	59.3	59.3	59.5	59.7	59.8
≥ 7000	47.1	52.7	54.4	56.0	59.2	59.5	60.0	60.3	60.5	60.9	60.9	60.9	61.0	61.1	61.3	61.4
≥ 6000	48.1	53.7	55.4	57.0	60.3	60.5	61.0	61.4	61.5	61.9	62.0	62.0	62.0	62.2	62.4	62.5
≥ 5500	52.4	58.4	60.3	61.9	65.3	65.5	66.1	66.5	66.7	67.1	67.2	67.2	67.2	67.4	67.6	67.7
≥ 5000	56.5	63.0	65.2	66.9	70.5	70.8	71.5	71.9	72.0	72.4	72.5	72.5	72.6	72.7	72.9	73.0
≥ 4500	60.8	67.9	70.2	72.0	76.0	76.2	76.9	77.3	77.5	78.0	78.0	78.1	78.1	78.3	78.5	78.6
≥ 4000	64.7	72.3	75.7	76.9	81.2	81.4	82.2	82.6	82.8	83.3	83.3	83.4	83.4	83.6	83.8	83.9
≥ 3500	68.6	76.9	79.8	81.7	86.4	86.7	87.6	88.1	88.3	88.9	88.9	89.0	89.0	89.2	89.4	89.5
≥ 3000	70.2	78.6	81.5	83.5	88.3	88.6	89.5	90.0	90.7	90.7	90.8	90.8	90.9	91.1	91.3	91.4
≥ 2500	71.6	80.2	83.2	85.3	90.2	90.5	91.4	91.9	92.2	92.7	92.8	92.8	92.9	93.1	93.3	93.4
≥ 2000	71.9	80.5	83.6	85.7	91.6	90.9	91.9	92.3	92.6	93.1	93.2	93.2	93.3	93.5	93.7	93.8
≥ 1800	73.1	82.1	85.4	87.6	92.8	93.1	94.1	94.6	94.9	95.4	95.5	95.6	95.6	95.8	96.0	96.1
≥ 1600	73.7	82.9	86.3	88.6	94.0	94.3	95.4	95.9	96.2	96.8	96.8	96.9	96.9	97.1	97.3	97.4
≥ 1400	73.9	83.2	86.7	89.1	94.8	95.1	96.3	96.8	97.1	97.7	97.8	97.9	97.9	98.1	98.3	98.4
≥ 1200	74.0	83.2	86.8	89.1	95.0	95.4	96.5	97.0	97.4	98.0	98.1	98.2	98.2	98.4	98.6	98.7
≥ 1000	74.1	83.3	86.9	89.3	95.1	95.5	96.7	97.3	97.6	98.3	98.4	98.4	98.4	98.6	98.8	99.0
≥ 900	74.1	83.4	87.0	89.4	95.3	95.8	97.0	97.5	97.9	98.5	98.6	98.7	98.7	98.9	99.1	99.2
≥ 800	74.1	83.4	87.0	89.4	95.4	95.8	97.0	97.6	97.9	98.6	98.7	98.7	98.8	99.0	99.2	99.3
≥ 700	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.7	98.1	98.8	98.9	98.9	99.0	99.2	99.4	99.5
≥ 600	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.8	98.9	99.0	99.0	99.2	99.4	99.6
≥ 500	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.8	98.9	99.0	99.0	99.1	99.3	99.5
≥ 400	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.9	99.0	99.0	99.1	99.3	99.5	99.7
≥ 300	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.9	99.0	99.0	99.1	99.3	99.5	99.8
≥ 200	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.9	99.0	99.0	99.1	99.3	99.6	99.9
≥ 100	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.9	99.0	99.0	99.1	99.3	99.6	99.9
≥ 50	74.1	83.4	87.0	89.4	95.4	95.9	97.2	97.8	98.1	98.9	99.0	99.0	99.1	99.3	99.6	99.9
≥ 0	74.1	83.5	87.1	89.5	95.5	95.9	97.3	97.8	98.2	98.9	99.1	99.1	99.2	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 6695

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 14 RAMSTEIN AB DL

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

	39.6	47.9	51.5	54.4	58.2	59.0	59.9	60.1	60.3	61.1	61.3	61.3	61.5	62.4	62.6	63.2
	41.7	51.3	55.4	58.4	62.2	63.1	63.9	64.2	64.4	65.1	65.4	65.4	65.6	66.5	66.8	67.4
	41.1	51.4	55.6	58.5	62.4	63.2	64.0	64.3	64.5	65.2	65.5	65.5	65.7	66.7	66.9	67.5
	41.1	51.4	55.6	58.5	62.4	63.2	64.0	64.3	64.5	65.2	65.5	65.5	65.7	66.7	66.9	67.5
	41.3	51.6	55.8	58.8	62.6	63.4	64.3	64.5	64.8	65.5	65.7	65.7	65.9	66.9	67.1	67.7
	41.9	52.3	56.5	59.5	63.3	64.2	65.0	65.2	65.5	66.2	66.4	66.4	66.7	67.6	67.9	68.5
	43.4	54.0	58.2	61.3	65.9	66.9	67.6	67.9	68.2	68.9	69.2	69.2	69.4	70.4	70.6	71.2
	43.6	54.4	58.5	61.6	66.3	67.1	68.0	68.2	68.6	69.3	69.5	69.5	69.8	70.7	71.0	71.7
	46.8	57.8	62.1	65.5	70.3	71.1	71.9	72.2	72.5	73.4	73.6	73.6	73.8	74.8	75.0	76.0
	47.1	58.1	62.4	65.7	70.5	71.3	72.2	72.4	72.8	73.6	73.8	73.8	74.1	75.0	75.3	76.2
	47.4	58.4	62.7	66.1	70.8	71.7	72.5	72.8	73.1	74.0	74.2	74.2	74.4	75.4	75.6	76.6
	49.1	60.5	64.8	68.2	73.2	74.1	74.9	75.1	75.5	76.5	76.7	76.7	77.2	78.1	78.5	79.5
	51.1	63.7	68.2	71.7	76.9	77.8	79.0	79.2	79.6	80.5	80.8	80.8	81.2	82.2	82.6	83.6
	54.5	67.0	71.7	75.3	80.9	81.7	83.2	83.4	83.8	84.7	84.9	84.9	85.4	86.4	86.7	87.8
	55.3	68.1	72.6	76.2	81.8	82.7	84.1	84.3	84.7	85.7	85.9	85.9	86.4	87.3	87.7	88.8
	56.6	69.7	74.6	78.1	84.5	85.3	87.3	88.2	88.5	89.6	89.8	89.8	90.3	91.3	91.6	92.9
	57.1	70.1	75.1	78.7	85.7	86.5	88.5	89.4	89.7	90.8	91.0	91.0	91.5	92.5	92.8	94.0
	57.8	70.8	76.0	79.7	86.7	87.6	89.6	90.4	90.8	91.9	92.1	92.1	92.6	93.5	93.9	95.1
	58.1	71.2	76.3	80.0	87.2	88.1	90.1	90.9	91.3	92.4	92.6	92.6	93.1	94.0	94.4	95.6
	58.8	72.0	77.7	81.5	89.1	90.0	92.2	93.1	93.5	94.7	95.0	95.0	95.5	96.4	96.8	98.0
	58.8	72.0	77.7	81.5	89.1	90.0	92.4	93.2	93.7	95.0	95.2	95.2	95.7	96.7	97.0	98.2
	59.1	72.4	78.1	81.8	89.5	90.3	92.7	93.5	94.1	95.6	95.8	95.8	96.3	97.3	97.6	98.8
	59.1	72.4	78.1	81.8	89.5	90.3	92.7	93.5	94.1	95.6	95.8	95.8	96.3	97.3	97.6	98.8
	59.1	72.4	78.1	81.8	89.6	90.4	92.8	93.7	94.3	95.7	95.9	95.9	96.4	97.4	97.7	98.9
	59.1	72.4	78.1	81.8	89.6	90.4	92.8	93.7	94.3	95.7	95.9	95.9	96.4	97.4	97.7	98.9
	59.1	72.4	78.1	81.8	89.6	90.4	93.1	93.9	94.5	95.9	96.2	96.2	96.7	97.6	98.0	99.2
	59.1	72.4	78.1	81.8	89.6	90.4	93.1	93.9	94.5	95.9	96.2	96.2	96.7	97.6	98.0	99.2
	59.1	72.4	78.1	82.0	89.7	90.6	93.2	94.0	94.6	96.1	96.3	96.3	96.8	97.7	98.1	99.3
	59.1	72.4	78.1	82.0	89.7	90.6	93.2	94.0	94.6	96.1	96.3	96.3	96.8	97.7	98.1	99.3
	59.1	72.4	78.1	82.0	89.7	90.6	93.2	94.0	94.6	96.1	96.3	96.3	96.8	97.7	98.2	99.4
	59.1	72.4	78.1	82.0	89.7	90.6	93.2	94.0	94.6	96.1	96.3	96.3	96.8	97.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AT WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14-77 RAMSTEIN AB DL

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

		VISIBILITY (MILES)																				
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
1-5	28.1	35.1	43.4	42.6	50.6	50.7	52.3	54.1	54.3	56.8	57.3	57.7	57.7	59.1	60.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
1-10	29.1	36.5	41.8	44.0	52.3	52.5	54.2	56.0	56.2	58.8	59.4	59.7	59.8	61.3	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2
1-15	29.1	36.5	41.8	44.0	52.3	52.5	54.2	56.0	56.2	58.8	59.4	59.7	59.8	61.3	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2
1-20	29.3	36.6	42.7	44.1	52.4	52.6	54.3	56.1	56.4	58.9	59.5	59.8	60.0	61.4	62.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3
1-25	30.0	37.4	42.8	45.0	53.2	53.5	55.3	57.1	57.3	59.8	60.4	60.8	60.9	62.4	63.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3
1-30	30.3	38.4	44.1	46.3	55.8	56.0	57.8	59.7	60.0	62.5	63.1	63.4	63.5	65.0	65.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9
1-35	30.6	38.7	44.5	46.9	56.4	56.6	58.4	60.3	60.6	63.1	63.7	64.0	64.1	65.6	66.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5
1-40	33.0	42.6	49.7	51.3	61.0	61.4	63.2	65.1	65.3	67.9	68.5	68.8	68.9	70.5	71.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
1-45	33.1	42.9	49.2	51.8	61.5	61.9	63.7	65.6	65.8	68.3	68.9	69.3	69.5	71.1	71.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0
1-50	33.1	42.9	49.2	51.8	61.5	61.9	63.7	65.6	65.8	68.3	68.9	69.3	69.5	71.1	71.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0
1-55	33.9	44.4	50.7	53.5	63.3	63.8	65.6	67.5	67.7	70.3	70.9	71.2	71.7	73.3	74.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
1-60	35.0	46.2	52.9	55.8	65.7	66.3	68.2	70.1	70.5	73.3	73.9	74.2	74.7	76.3	77.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2
1-65	36.5	48.0	55.0	57.9	68.3	68.9	71.1	73.1	73.5	76.3	76.9	77.2	77.7	79.3	80.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2
1-70	37.4	49.2	56.4	59.2	70.1	70.9	73.0	75.1	75.4	78.2	78.8	79.1	79.7	81.3	82.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2
1-75	39.3	51.3	58.9	61.8	73.4	74.5	77.2	79.7	80.1	82.9	83.5	83.8	84.4	86.0	86.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1-80	40.2	52.3	59.8	62.7	74.6	75.7	78.4	80.9	81.3	84.1	84.7	85.0	85.6	87.2	88.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2
1-85	40.9	53.2	61.2	64.0	76.4	77.5	80.2	82.9	83.2	86.2	86.8	87.2	87.8	89.3	90.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4
1-90	41.4	53.7	61.6	64.5	77.0	78.1	80.8	83.5	83.8	86.8	87.4	87.8	88.4	89.9	90.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0
1-95	42.2	54.7	62.9	66.3	79.4	81.5	83.2	85.9	86.6	89.6	90.2	90.5	91.1	92.7	93.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1-100	42.6	55.0	63.3	66.7	79.9	80.9	83.8	86.5	87.2	90.5	91.1	91.5	92.1	93.6	94.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7
1-105	42.7	55.2	63.4	66.9	80.1	81.2	84.1	86.7	87.4	90.9	91.5	91.8	92.6	94.1	95.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3
1-110	42.8	55.3	63.7	67.1	80.5	81.5	84.4	87.1	87.8	91.2	91.8	92.2	92.9	94.5	95.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
1-115	42.9	55.4	63.8	67.3	80.6	81.7	84.5	87.2	87.9	91.4	92.0	92.3	93.0	94.6	95.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1-120	43.0	55.5	63.9	67.4	80.7	81.8	84.7	87.3	88.0	91.5	92.1	92.4	93.2	94.7	95.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1-125	43.2	55.6	64.0	67.5	80.8	81.9	85.1	87.8	88.5	92.0	92.6	92.9	93.6	95.2	96.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1-130	43.2	55.6	64.0	67.5	80.8	81.9	85.1	87.8	88.5	92.1	92.7	93.0	93.8	95.3	96.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5
1-135	43.2	55.6	64.0	67.5	80.8	81.9	85.1	87.9	88.6	92.3	92.9	93.3	94.0	95.6	96.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7
1-140	43.2	55.6	64.0	67.5	80.8	81.9	85.1	87.9	88.6	92.3	92.9	93.3	94.0	95.6	96.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8
1-145	43.2	55.6	64.0	67.5	80.8	81.9	85.1	87.9	88.6	92.4	93.0	93.4	94.1	95.8	96.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1-150	43.2	55.6	64.0	67.5	80.8	81.9	85.1	87.9	88.6	92.7	93.3	93.6	94.5	96.3	97.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 834

2
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

3600-0800

CEILING FEET	200	24	27	34	40	47	50	57	60	67	70	74	80	87	90	97	100
2000	19.2	23.1	25.8	27.4	36.4	37.3	40.3	42.4	43.4	44.9	45.0	45.2	45.3	46.6	47.3		
1800	21.1	25.3	28.2	30.3	39.9	41.0	44.2	46.5	47.8	49.7	49.8	50.1	50.2	51.1	52.1	53.0	
1600	21.1	25.4	28.3	30.5	40.0	41.1	44.3	46.6	47.9	49.8	49.9	50.2	50.3	51.3	52.2	53.2	
1400	21.3	25.4	28.3	30.5	40.0	41.1	44.3	46.6	47.9	49.8	49.9	50.2	50.3	51.3	52.2	53.2	
1200	21.3	25.7	28.6	30.7	40.6	41.7	44.9	47.2	48.5	50.4	50.5	50.8	50.9	51.9	52.8	53.8	
1000	21.9	26.0	28.9	31.1	41.2	42.3	45.5	47.8	49.1	51.1	51.3	51.5	51.6	52.6	53.5	54.5	
800	22.0	26.8	29.9	32.3	42.5	43.6	47.0	49.3	50.7	52.6	52.9	53.2	53.3	54.2	55.2	56.2	
600	22.3	27.1	30.2	32.6	43.5	44.6	47.9	50.3	51.7	53.6	54.7	54.2	54.4	55.3	56.3	57.2	
400	25.3	30.7	34.4	37.2	49.1	50.3	53.6	56.2	57.6	60.1	60.5	60.8	60.9	61.9	62.8	63.9	
200	25.4	31.1	35.0	37.8	49.9	51.1	54.6	57.1	58.5	61.3	61.6	62.0	62.1	63.1	64.0	65.1	
000	25.4	31.2	35.5	38.4	50.5	51.7	55.2	57.7	59.1	61.9	62.2	62.6	62.7	63.7	64.6	65.8	
1000	26.8	32.9	37.3	40.3	53.3	54.6	58.3	61.2	62.7	65.5	65.8	66.2	66.3	67.3	68.2	69.4	
1200	28.0	35.2	40.4	43.5	56.8	58.1	62.1	65.1	66.7	69.4	69.8	70.1	70.3	71.2	72.2	73.5	
1400	29.4	37.2	42.4	45.6	60.6	61.9	66.2	69.2	70.8	74.0	74.3	74.8	74.9	75.9	76.8	78.1	
1600	30.9	39.1	44.6	47.8	63.1	64.6	69.2	72.3	74.1	77.7	78.0	78.5	78.6	79.6	80.6	82.0	
1800	32.5	40.9	46.6	50.1	65.7	67.3	71.9	75.1	77.3	81.4	81.7	82.2	82.3	83.3	84.3	86.0	
2000	33.0	41.6	47.3	50.8	66.4	68.0	72.6	75.9	78.0	82.1	82.4	82.9	83.0	84.0	85.1	86.7	
2200	33.8	42.4	48.5	52.0	68.1	69.7	74.3	77.7	79.8	83.9	84.2	84.7	84.8	85.8	86.9	88.5	
2400	34.3	43.0	49.1	52.6	68.7	70.3	74.9	78.3	80.4	84.5	84.8	85.3	85.4	86.4	87.5	89.1	
2600	35.6	44.7	50.9	54.6	71.4	73.2	78.3	81.8	84.1	88.3	88.6	89.1	89.2	90.2	91.3	93.0	
2800	36.1	45.8	52.0	55.7	72.8	74.6	79.6	83.4	85.7	90.0	90.3	90.8	90.9	91.9	93.0	94.6	
3000	36.1	45.8	52.0	55.7	73.0	74.8	79.9	83.8	86.0	90.4	90.8	91.4	91.6	92.6	93.7	95.3	
3200	36.1	45.8	52.0	55.7	73.0	74.8	80.0	83.9	86.1	90.6	90.9	91.5	91.8	92.7	93.8	95.5	
3400	36.1	45.9	52.1	55.8	73.1	74.9	80.2	84.0	86.3	90.7	91.0	91.6	92.0	93.0	94.0	95.7	
3600	36.1	46.2	52.4	56.2	73.6	75.4	80.6	84.6	86.9	91.4	91.8	92.4	92.7	93.7	94.7	96.4	
3800	36.1	46.2	52.4	56.4	73.8	75.6	80.9	84.9	87.3	92.0	92.4	93.0	93.3	94.3	95.3	97.0	
4000	36.1	46.2	52.4	56.4	73.8	75.6	81.1	85.3	87.7	92.4	92.7	93.3	93.7	94.6	95.7	97.4	
4200	36.1	46.2	52.4	56.4	73.8	75.6	81.1	85.3	87.8	92.5	92.8	93.4	93.8	94.7	95.8	97.5	
4400	36.1	46.2	52.4	56.4	73.8	75.6	81.1	85.3	87.8	92.5	92.8	93.5	93.9	94.9	95.9	97.6	
4600	36.1	46.2	52.4	56.4	73.8	75.6	81.1	85.3	87.8	92.5	93.0	93.8	94.3	95.3	96.4	98.3	
4800	36.1	46.2	52.4	56.4	73.8	75.6	81.1	85.3	87.8	92.5	93.0	93.8	94.3	95.5	97.1	99.9	
5000	36.1	46.2	52.4	56.4	73.8	75.6	81.1	85.3	87.8	92.5	93.0	93.8	94.3	95.5	97.3	100.0	

TOTAL NUMBER OF OBSERVATIONS 837

USAF ETAC 0-14-5 IOL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2000	28.1	33.7	36.4	39.6	44.3	44.3	44.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
1800	31.7	38.0	40.7	44.3	49.2	49.4	49.5	50.4	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5
1600	31.8	38.2	40.8	44.4	49.3	49.5	49.6	50.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6
1400	32.1	38.4	41.0	44.6	49.5	49.8	49.9	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8
1200	32.5	39.0	41.7	45.5	50.5	50.7	50.8	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8
1000	32.8	39.5	42.2	45.9	51.2	51.4	51.6	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5
800	34.4	41.5	44.7	48.4	54.1	54.3	54.4	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5
600	34.4	41.7	45.0	48.8	54.8	55.0	55.1	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2
400	36.7	44.4	47.6	51.8	57.8	58.0	58.6	59.4	59.4	59.8	59.8	59.8	59.8	59.8	59.8	59.8
200	37.8	45.7	49.3	53.7	59.9	60.2	60.8	61.6	61.6	62.0	62.0	62.0	62.0	62.0	62.0	62.0
100	38.3	46.2	49.8	54.2	60.4	60.6	61.2	62.1	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4
50	39.8	48.2	52.0	56.6	62.9	63.3	64.0	65.0	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3
25	41.4	50.4	54.3	59.0	65.3	65.7	66.5	67.5	67.5	67.8	67.8	67.8	67.8	67.8	67.8	67.8
10	45.3	55.1	59.4	64.4	71.8	72.1	73.0	73.9	73.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8
5	46.7	56.7	61.0	65.9	73.9	74.3	75.4	76.3	76.3	77.2	77.2	77.2	77.2	77.2	77.2	77.2
2	50.6	61.4	66.0	71.2	80.4	80.7	82.1	83.1	83.1	84.1	84.1	84.1	84.2	84.2	84.2	84.2
1	51.8	62.6	67.3	72.5	82.1	82.4	83.9	85.0	85.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1
0	53.8	64.7	69.5	74.8	84.4	84.8	86.2	87.6	87.6	88.8	88.8	88.8	88.9	88.9	88.9	88.9
1800	54.3	65.3	70.1	75.4	85.0	85.4	86.8	88.4	88.4	89.6	89.6	89.6	89.7	89.7	89.7	89.7
1600	57.3	68.8	73.8	79.5	90.1	90.7	92.2	93.8	93.8	95.0	95.0	95.0	95.1	95.1	95.1	95.1
1400	58.1	69.6	74.8	80.7	91.4	92.0	93.5	95.1	95.3	96.7	96.7	96.7	96.8	96.8	96.8	96.8
1200	58.3	69.9	75.0	81.3	92.2	92.8	94.5	96.1	96.7	98.0	98.0	98.0	98.1	98.1	98.1	98.1
1000	58.3	69.9	75.0	81.3	92.2	92.8	94.5	96.1	96.7	98.0	98.0	98.0	98.1	98.1	98.1	98.1
800	58.3	70.0	75.2	81.6	92.8	93.5	95.3	97.0	97.6	99.0	99.0	99.0	99.2	99.2	99.2	99.2
600	58.3	70.0	75.2	81.6	92.8	93.7	95.5	97.1	97.7	99.2	99.2	99.2	99.3	99.3	99.3	99.3
400	58.3	70.0	75.4	81.7	93.1	93.8	95.6	97.2	97.8	99.3	99.3	99.3	99.4	99.4	99.4	99.4
200	58.3	70.0	75.4	81.7	93.1	93.8	95.6	97.2	97.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5
100	58.3	70.0	75.4	81.7	93.1	93.8	95.6	97.2	97.8	99.5	99.6	99.6	99.8	99.8	99.8	99.8
0	58.3	70.0	75.4	81.7	93.1	93.8	95.6	97.2	97.8	99.5	99.6	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 836

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

2

73-81

AUG

1230-1400

TOTAL NUMBER OF OBSERVATIONS 837

2

73-81

AUG

1500-1700

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 141 RAMSTEIN AB DL

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1830-2000

NO. OBS.	45.1	48.1	48.6	49.2	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
2000	53.4	57.2	58.2	58.9	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
1800	53.4	57.3	58.3	59.0	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
1600	53.4	57.3	58.3	59.0	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
1400	54.5	58.1	59.1	59.9	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
1200	56.3	59.9	61.1	61.8	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
1000	58.9	63.0	64.4	65.5	66.5	66.8	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
800	59.5	63.6	65.2	66.3	67.4	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
600	65.6	70.5	72.2	73.2	74.6	74.8	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
400	67.1	72.4	74.1	75.1	76.5	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
200	68.3	74.0	75.6	76.7	78.0	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
100	70.1	76.3	78.6	79.8	81.2	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
50	73.6	83.4	82.8	84.0	85.7	85.9	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3
25	76.5	83.6	86.1	87.3	89.0	89.2	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
10	79.1	86.4	89.1	90.3	92.1	92.4	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
5	80.8	88.5	91.5	92.8	95.0	95.2	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
2	81.1	88.9	91.9	93.2	95.3	95.6	95.9	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
1	81.8	90.0	93.1	94.4	96.7	96.9	97.3	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
0.5	82.1	90.2	93.4	94.7	97.0	97.3	97.6	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
0.2	82.3	90.6	94.0	95.3	98.1	98.3	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0.1	82.3	90.7	94.1	95.5	98.3	98.7	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.05	82.4	90.8	94.3	95.6	98.6	98.9	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0.02	82.4	90.8	94.3	95.6	98.6	98.9	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0.01	82.6	91.0	94.5	95.8	98.8	99.2	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0.005	82.6	91.0	94.5	95.8	98.8	99.2	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0.002	82.6	91.2	94.6	95.9	98.9	99.3	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.001	82.6	91.2	94.6	95.9	98.9	99.3	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0005	82.6	91.2	94.6	95.9	98.9	99.3	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0002	82.6	91.2	94.6	95.9	98.9	99.3	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0001	82.6	91.2	94.6	95.9	98.9	99.3	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

1	46.4	51.4	53.6	55.1	57.0	57.0	57.6	57.7	57.8	58.1	58.1	58.1	58.1	58.3	58.3	58.4
2	53.2	58.8	61.3	62.7	64.9	64.9	65.5	65.6	65.7	65.9	65.9	65.9	65.9	66.2	66.2	66.3
3	53.4	59.0	61.8	63.2	65.4	65.4	65.9	66.1	66.2	66.4	66.4	66.4	66.4	66.7	66.7	66.8
4	53.4	59.0	61.8	63.2	65.4	65.4	65.9	66.1	66.2	66.4	66.4	66.4	66.4	66.7	66.7	66.8
5	53.4	59.0	61.8	63.2	65.4	65.4	65.9	66.1	66.2	66.4	66.4	66.4	66.4	66.7	66.7	66.8
6	54.2	60.0	62.8	64.3	66.5	66.5	67.1	67.3	67.4	67.6	67.6	67.6	67.6	67.9	67.9	68.0
7	56.5	62.4	65.2	67.0	70.1	70.5	71.1	71.2	71.3	71.6	71.6	71.6	71.6	71.8	71.8	71.9
8	57.2	63.1	66.2	68.0	71.1	71.4	72.0	72.2	72.3	72.5	72.5	72.5	72.5	72.8	72.9	73.1
9	61.6	68.2	71.7	73.5	76.8	77.2	77.8	77.9	78.0	78.3	78.3	78.3	78.3	78.5	78.6	78.9
10	62.5	69.4	72.9	74.7	78.4	78.7	79.3	79.5	79.6	79.8	79.8	79.8	79.8	80.0	80.2	80.4
11	62.8	69.9	73.7	75.5	79.3	79.7	80.3	80.4	80.5	80.8	80.8	80.8	80.8	81.0	81.1	81.4
12	64.3	71.7	75.5	77.3	81.2	81.6	82.4	82.6	82.7	82.9	82.9	82.9	82.9	83.2	83.5	83.8
13	68.1	75.9	79.7	81.6	85.7	86.0	86.9	87.0	87.1	87.5	87.5	87.5	87.5	87.7	88.1	88.3
14	70.5	78.5	82.3	84.2	88.4	88.8	89.6	89.7	89.8	90.2	90.2	90.2	90.2	90.4	90.8	91.0
15	72.3	80.5	84.3	86.3	90.4	90.8	91.6	91.8	91.9	92.2	92.2	92.2	92.2	92.5	92.8	93.1
16	74.6	83.3	87.3	89.2	93.9	94.3	95.2	95.5	95.6	95.9	95.9	95.9	95.9	96.2	96.5	96.8
17	74.7	83.5	87.6	89.6	94.3	94.6	95.6	95.8	95.9	96.3	96.3	96.3	96.3	96.5	96.9	97.1
18	75.3	84.1	88.3	90.3	95.0	95.3	96.3	96.5	96.7	97.0	97.0	97.0	97.0	97.3	97.6	97.8
19	75.3	84.2	88.4	90.4	95.1	95.5	96.4	96.7	96.8	97.1	97.1	97.1	97.1	97.4	97.7	98.0
20	75.4	84.3	88.9	90.8	95.8	96.2	97.4	97.6	97.7	98.1	98.1	98.1	98.1	98.3	98.7	98.9
21	75.4	84.3	88.9	90.9	96.1	96.4	97.7	98.0	98.1	98.4	98.4	98.4	98.4	98.7	99.0	99.3
22	75.4	84.3	88.9	90.9	96.1	96.4	97.7	98.0	98.1	98.4	98.4	98.4	98.4	98.7	99.0	99.3
23	75.4	84.3	88.9	90.9	96.1	96.4	97.7	98.0	98.1	98.4	98.4	98.4	98.4	98.7	99.0	99.3
24	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.0	99.4	99.6
25	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.0	99.4	99.6
26	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.0	99.4	99.6
27	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.0	99.4	99.6
28	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.0	99.4	99.6
29	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.0	99.4	99.6
30	75.4	84.5	89.2	91.3	96.4	96.8	98.1	98.3	98.4	98.8	98.8	98.8	98.8	99.2	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

837

2

2

→

USAF ETAC

2

1

SEP

— **STRENGTH** —

MANUSCRIPT

73-81

SEP

0000-0200

TOTAL NUMBER OF OBSERVATIONS 810

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2300-0500

CEILING FEET	200	26	31	34	37	41	45	50	55	60	65	70	75	80	85	90	95	100
2000	19.9	24.4	26.8	28.3	32.0	32.2	34.4	34.9	35.3	38.4	39.4	39.6	40.4	41.5	42.8	46.3		
1800	21.1	25.9	28.6	30.1	34.0	34.3	36.7	37.2	37.5	41.0	42.1	42.3	43.1	44.2	45.6	49.5		
1600	21.1	25.9	28.6	30.1	34.0	34.3	36.7	37.2	37.5	41.0	42.1	42.3	43.1	44.2	45.6	49.5		
1400	21.1	25.9	28.6	30.1	34.0	34.3	36.7	37.2	37.5	41.0	42.1	42.3	43.1	44.2	45.6	49.5		
1200	21.1	26.0	28.8	30.2	34.1	34.4	36.8	37.3	37.7	41.1	42.2	42.5	43.2	44.3	45.7	49.6		
1000	23.3	28.8	31.5	33.0	37.5	37.9	40.2	41.0	41.6	45.3	46.4	46.7	47.5	48.6	50.0	54.7		
800	24.2	29.8	32.5	34.0	38.5	38.9	41.2	42.0	42.6	46.3	47.4	47.7	48.5	49.6	51.0	54.9		
600	26.3	32.3	35.7	37.2	41.9	42.2	44.7	45.4	46.0	49.8	50.9	51.2	52.1	53.2	54.7	58.8		
400	26.4	33.1	36.4	37.9	42.6	43.0	45.4	46.2	46.8	50.5	51.6	52.0	52.8	54.0	55.4	59.6		
200	26.4	33.1	36.4	37.9	42.6	43.0	45.4	46.2	46.8	50.5	51.6	52.0	52.8	54.0	55.4	59.6		
100	28.6	36.4	39.9	41.5	46.7	47.0	49.8	50.5	51.1	54.8	55.9	56.3	57.2	58.4	59.9	64.3		
50	32.1	40.0	44.1	45.6	50.9	51.2	54.2	54.9	55.6	59.6	60.7	61.1	62.0	63.2	64.7	69.1		
25	34.2	42.5	46.5	48.1	55.3	55.8	58.9	59.6	60.2	64.6	65.7	66.0	66.9	68.1	69.6	74.1		
15	36.3	44.8	49.4	51.2	59.1	59.6	62.8	63.6	64.2	68.5	69.6	70.0	70.9	72.1	73.6	78.1		
10	38.0	46.8	52.1	54.2	62.8	63.8	67.3	68.4	69.1	73.8	75.1	75.4	76.3	77.5	79.0	83.6		
5	38.5	47.3	53.0	55.6	64.2	65.2	68.6	69.8	70.5	75.6	76.8	77.2	78.0	79.3	80.7	85.3		
0	39.3	48.0	53.8	56.5	65.7	66.7	70.5	71.7	72.7	78.1	79.4	79.8	80.6	81.9	83.3	87.9		
100	39.9	48.8	54.7	57.4	66.5	67.5	71.4	72.6	73.6	79.0	80.2	80.6	81.5	82.7	84.2	88.8		
200	40.9	49.6	55.7	58.4	67.7	68.6	72.5	73.7	74.7	80.1	81.4	81.7	82.6	83.8	85.3	89.9		
300	41.2	50.4	56.4	59.3	68.8	69.8	73.7	74.9	75.9	81.4	82.6	83.0	83.8	85.1	86.5	91.1		
400	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
500	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
600	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
700	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
800	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
900	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1000	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1100	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1200	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1300	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1400	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1500	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1600	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1700	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1800	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
1900	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		
2000	41.5	50.6	56.7	59.5	69.9	70.5	74.4	75.7	76.7	82.1	83.3	83.7	84.6	85.8	87.3	91.9		

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0600

VISIBILITY (MILES)		CEILING (FEET)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
NO. FEET	9.1	13.1	15.1	16.7	22.2	22.6	23.3	25.3	26.3	27.9	28.4	28.8	29.0	29.8	30.4	32.0	
2 2000	11.2	15.6	18.1	19.6	26.7	27.0	27.9	30.1	31.1	32.8	33.3	33.7	34.0	34.9	35.8	38.4	
2 8000	11.2	15.7	18.1	19.9	26.9	27.3	28.1	30.4	31.4	33.1	33.6	34.0	34.2	35.2	36.0	38.6	
2 16000	11.2	15.7	18.1	19.9	26.9	27.3	28.1	30.4	31.4	33.1	33.6	34.0	34.2	35.2	36.0	38.6	
2 24000	11.2	15.7	18.1	19.9	26.9	27.3	28.1	30.4	31.4	33.1	33.6	34.0	34.2	35.2	36.0	38.6	
2 32000	11.4	15.8	18.3	20.0	27.0	27.4	28.4	30.6	31.6	33.5	34.0	34.3	34.6	35.6	36.4	39.0	
2 40000	12.3	17.4	20.2	22.0	29.5	30.0	31.2	33.6	34.6	37.2	37.8	38.1	38.4	39.4	40.2	42.8	
2 48000	13.2	18.3	21.1	23.0	30.5	31.0	32.2	34.6	35.6	38.1	38.8	39.1	39.4	40.4	41.2	43.9	
2 56000	15.3	21.1	24.6	26.5	34.4	34.9	36.5	39.0	40.0	42.6	43.2	43.7	44.0	44.9	45.8	48.6	
2 64000	15.6	21.4	24.8	27.0	35.1	35.6	37.2	39.6	40.6	43.3	44.0	44.4	44.7	45.7	46.5	49.4	
2 72000	15.9	22.0	25.4	27.7	35.8	36.3	38.0	40.5	41.6	44.3	44.9	45.4	45.7	46.7	47.5	50.4	
2 80000	17.5	24.0	27.5	29.9	39.1	39.6	41.4	44.1	45.2	48.3	48.9	49.5	49.9	50.9	51.7	54.9	
2 88000	20.5	27.7	31.2	33.7	43.1	43.6	45.4	48.3	49.4	52.5	53.2	54.0	54.3	55.3	56.2	59.4	
2 96000	22.8	30.5	34.4	37.2	48.4	48.9	51.0	54.2	55.3	58.6	59.9	60.7	61.1	62.2	63.1	66.4	
2 104000	24.4	32.3	36.7	39.5	50.7	51.2	53.5	56.9	58.3	61.6	62.8	63.7	64.1	65.2	66.0	69.4	
2 112000	25.7	33.7	38.5	41.6	53.5	54.0	56.9	60.7	62.1	66.4	67.8	68.9	69.4	70.6	71.5	74.8	
2 120000	26.4	34.7	39.5	42.6	54.9	55.4	58.4	62.2	63.7	68.1	69.5	70.6	71.1	72.3	73.2	76.7	
2 128000	28.3	36.7	41.9	44.9	57.9	58.4	61.5	65.4	66.9	71.4	72.7	73.8	74.3	75.6	76.4	79.9	
2 136000	28.8	37.2	42.3	45.6	58.5	59.0	62.1	66.0	67.5	72.0	73.3	74.4	74.9	76.2	77.0	80.5	
2 144000	30.2	39.0	44.6	47.9	61.2	61.7	64.8	68.8	70.2	74.8	76.2	77.3	77.8	79.2	79.9	83.3	
2 152000	31.2	40.1	45.7	49.0	62.5	63.0	66.2	70.2	71.7	76.4	77.8	78.9	79.4	80.6	81.5	84.9	
2 160000	31.9	40.7	46.3	49.6	63.3	63.8	67.0	71.5	73.0	77.7	79.0	80.1	80.6	82.0	82.8	86.3	
2 168000	32.0	40.9	46.4	49.8	63.5	64.0	67.2	71.6	73.3	78.0	79.4	80.5	81.0	82.3	83.2	86.7	
2 176000	32.7	40.9	46.4	49.8	63.6	64.1	67.3	71.7	73.5	78.1	79.5	80.6	81.1	82.5	83.3	86.8	
2 184000	32.7	40.9	46.4	49.8	63.6	64.1	67.3	71.7	73.5	78.1	79.5	80.6	81.1	82.6	83.5	86.9	
2 192000	32.0	40.9	46.4	49.8	63.6	64.1	67.4	71.9	73.6	78.4	79.9	81.0	81.5	83.0	83.8	87.4	
2 200000	32.7	40.9	46.4	49.8	63.6	64.1	67.4	71.9	73.6	78.5	80.0	81.1	81.6	83.2	84.1	87.8	
2 208000	32.0	40.9	46.4	49.8	63.6	64.1	67.4	71.9	73.6	78.5	80.0	81.1	81.6	83.5	84.8	90.0	
2 216000	32.0	40.9	46.4	49.8	63.6	64.1	67.4	71.9	73.6	78.6	80.1	81.2	82.3	84.0	86.3	93.7	
2 224000	32.0	40.9	46.4	49.8	63.6	64.1	67.4	71.9	73.6	78.8	80.2	81.4	82.1	84.2	86.7	97.7	
2 232000	32.0	40.9	46.4	49.8	63.6	64.1	67.4	71.9	73.6	78.8	80.2	81.4	82.1	84.2	87.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET		VISIBILITY STAT MILES															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1000	20.7	24.8	26.4	28.1	34.0	34.0	34.7	35.9	36.4	37.8	37.9	38.0	38.0	38.0	38.0	38.3
2	900	23.7	28.8	31.9	32.8	38.8	38.8	39.6	41.2	41.9	43.5	43.6	43.8	43.8	43.8	43.8	44.1
3	800	24.1	29.0	31.1	33.1	39.0	39.0	39.9	41.5	42.1	43.7	43.8	44.1	44.1	44.1	44.1	44.3
4	700	24.2	29.3	31.4	33.3	39.3	39.3	40.1	41.7	42.3	44.0	44.1	44.3	44.3	44.3	44.3	44.6
5	600	24.2	29.3	31.4	33.3	39.3	39.3	40.1	41.7	42.3	44.0	44.1	44.3	44.3	44.3	44.3	44.6
6	500	24.3	29.5	32.8	34.8	40.7	40.7	41.6	43.2	43.8	45.4	45.6	45.8	45.8	45.8	45.8	46.0
7	400	26.5	32.5	34.9	37.2	43.3	43.3	44.3	46.0	46.8	48.4	48.5	48.8	48.8	48.8	48.8	49.0
8	300	26.7	32.8	35.4	37.7	43.8	43.8	44.8	46.5	47.3	48.9	49.0	49.3	49.3	49.3	49.3	49.5
9	200	29.4	35.6	38.5	41.1	47.8	47.8	48.9	50.7	51.5	53.2	53.3	53.6	53.6	53.6	53.6	53.8
10	100	30.3	36.9	40.0	42.6	49.5	49.5	50.6	52.5	53.2	54.9	55.1	55.3	55.3	55.3	55.3	55.6
11	50	30.6	37.5	40.6	43.2	50.2	50.2	51.4	53.2	54.0	55.7	55.8	56.0	56.0	56.0	56.0	56.3
12	25	32.2	39.1	43.1	45.7	53.5	53.5	54.7	56.7	57.7	59.6	59.9	60.1	60.1	60.1	60.1	60.4
13	10	34.7	42.3	46.4	49.1	56.9	56.9	58.1	60.1	61.1	63.1	63.3	63.6	63.6	63.6	63.6	63.8
14	5	37.4	45.4	49.8	52.8	61.4	61.5	63.1	65.2	66.2	68.4	68.6	69.0	69.0	69.0	69.0	69.3
15	2	39.9	48.4	52.8	55.9	64.7	64.8	66.4	68.6	69.6	71.9	72.1	72.5	72.5	72.6	72.6	73.0
16	1	44.7	55.1	59.8	63.2	73.5	73.6	75.6	78.0	79.0	81.6	81.9	82.2	82.2	82.3	82.3	82.7
17	0.5	45.1	55.6	60.4	64.1	74.6	74.7	76.8	79.3	80.2	83.0	83.3	83.7	83.7	83.8	83.8	84.3
18	0.25	47.5	58.1	63.3	67.2	77.7	77.8	80.0	82.5	83.5	86.3	86.7	87.0	87.0	87.2	87.2	87.7
19	0.1	48.0	59.6	63.8	67.7	78.1	78.3	80.6	83.1	84.1	86.9	87.3	87.7	87.7	87.8	87.8	88.3
20	0.05	49.3	60.1	65.6	69.5	80.7	80.9	83.3	85.9	87.3	90.2	90.6	91.0	91.0	91.1	91.1	91.6
21	0.025	50.5	61.4	66.9	70.7	82.1	82.3	84.9	87.5	88.9	92.2	92.6	93.0	93.0	93.1	93.1	93.6
22	0.01	50.5	61.4	66.9	70.9	82.2	82.5	85.1	87.9	89.3	92.6	93.0	93.3	93.5	93.7	93.7	94.2
23	0.005	50.5	61.4	66.9	70.9	82.2	82.5	85.1	87.9	89.3	92.6	93.0	93.3	93.5	93.7	93.7	94.2
24	0.0025	50.5	61.4	66.9	70.9	82.2	82.5	85.2	88.1	89.5	93.1	93.5	93.8	94.0	94.2	94.2	94.7
25	0.001	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.3	89.9	93.5	93.8	94.3	94.4	94.7	94.7	95.2
26	0.0005	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.3	89.9	94.1	94.6	95.3	95.4	95.9	95.9	96.4
27	0.00025	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.3	89.9	94.2	94.7	95.6	95.7	96.2	96.3	96.8
28	0.0001	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.4	90.0	94.6	95.1	95.9	96.0	96.7	96.8	97.5
29	0.00005	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.4	90.0	94.7	95.2	96.0	96.2	96.8	96.9	98.0
30	0.000025	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.4	90.0	94.7	95.2	96.0	96.2	97.0	97.4	99.0
31	0.00001	50.5	61.4	66.9	70.9	82.2	82.5	85.3	88.4	90.0	94.7	95.2	96.2	96.4	97.3	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
AFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1400 RAMSTEIN AB DL

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
1000	29.5	32.8	33.7	35.1	35.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
900	35.2	38.6	39.8	41.4	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
800	36.1	39.6	41.8	42.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
700	36.3	39.8	41.1	42.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
600	36.5	39.9	41.2	42.8	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
500	37.6	41.2	42.4	44.0	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
400	40.1	44.1	45.5	47.1	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
300	40.8	44.9	46.2	47.8	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
200	44.4	49.1	50.8	52.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
100	44.9	49.8	51.5	53.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
50	46.2	51.3	53.1	54.8	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
25	48.8	54.5	56.5	58.7	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
10	52.4	58.5	60.6	62.8	66.1	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
5	56.7	63.0	65.3	67.5	71.4	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2	61.3	68.1	70.6	72.9	77.3	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
1	69.5	77.6	81.0	83.3	88.1	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
0.5	70.8	79.4	82.8	85.3	90.2	90.5	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
0.2	73.1	82.1	85.8	88.5	93.9	94.2	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
0.1	73.4	82.4	86.2	88.9	94.3	94.6	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
0.05	74.7	83.7	87.5	90.2	95.8	96.0	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
0.02	75.1	84.1	87.9	90.6	96.3	96.5	97.2	97.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0.01	75.2	84.3	88.1	91.1	97.0	97.3	97.9	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0.005	75.2	84.3	88.3	91.2	97.2	97.4	98.0	98.8	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.002	75.2	84.3	88.3	91.2	97.2	97.4	98.0	99.0	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0.001	75.2	84.3	88.3	91.2	97.3	97.5	98.1	99.1	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0.0005	75.2	84.3	88.3	91.2	97.3	97.5	98.3	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0002	75.2	84.3	88.3	91.2	97.3	97.5	98.3	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0001	75.2	84.3	88.3	91.2	97.3	97.5	98.3	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.00005	75.2	84.3	88.3	91.2	97.3	97.5	98.3	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.00002	75.2	84.3	88.3	91.2	97.3	97.5	98.3	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.00001	75.2	84.3	88.3	91.2	97.3	97.5	98.3	99.3	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

CEILING VERSUS VISIBILITY

73-81

SEP

1600-1700

TOTAL NUMBER OF OBSERVATIONS 809

2

73-81

SEP

1830-2662

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS																
CEILING	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
100	37.2	43.3	47.8	48.9	53.2	53.2	54.2	54.6	54.7	55.6	55.6	56.0	56.0	56.4	56.8	57.0
200	40.4	47.0	52.2	53.6	58.5	58.5	59.5	59.9	60.0	60.9	60.9	61.4	61.5	61.9	62.2	62.5
300	40.5	47.3	52.5	53.8	58.8	58.8	59.8	60.1	60.2	61.1	61.1	61.6	61.7	62.1	62.5	62.7
400	40.6	47.3	52.5	53.8	58.8	58.8	59.8	60.1	60.2	61.1	61.1	61.6	61.7	62.1	62.5	62.7
500	40.6	47.3	52.5	53.8	58.8	58.8	59.8	60.1	60.2	61.1	61.1	61.6	61.7	62.1	62.5	62.7
600	41.5	48.1	53.3	54.7	59.6	59.6	60.6	61.0	61.1	62.0	62.0	62.5	62.6	63.0	63.3	63.6
700	43.1	49.8	55.1	56.5	61.5	61.5	62.5	62.8	63.0	63.8	64.0	64.4	64.6	64.9	65.3	65.6
800	44.1	50.7	56.3	57.8	62.7	62.7	63.7	64.1	64.2	65.1	65.2	65.7	65.8	66.2	66.5	66.8
900	45.8	52.8	58.8	60.4	65.9	65.9	66.9	67.7	67.9	68.9	69.0	69.5	69.6	70.0	70.4	70.6
1000	47.9	54.9	61.0	62.6	68.1	68.1	69.3	70.0	70.2	71.2	71.4	71.9	72.0	72.3	72.7	73.0
1200	48.6	55.8	61.9	63.5	69.0	69.0	70.1	70.9	71.1	72.1	72.2	72.7	72.8	73.2	73.6	73.8
1400	51.4	59.3	65.7	67.7	73.7	73.7	74.9	75.7	75.9	76.9	77.0	77.5	77.7	78.0	78.4	78.6
1600	53.5	62.0	68.4	70.4	76.5	76.5	77.8	78.5	78.8	79.8	79.9	80.4	80.5	80.9	81.2	81.5
1800	56.4	65.4	72.1	74.3	80.9	81.0	82.2	83.0	83.2	84.3	84.4	84.9	85.1	85.4	85.8	86.2
2000	58.1	67.4	74.3	76.7	83.5	83.6	84.8	85.6	85.8	86.9	87.0	87.5	87.7	88.0	88.4	88.6
2200	61.5	71.2	78.4	81.0	88.9	89.0	90.2	91.2	91.6	92.7	92.8	93.3	93.5	93.8	94.2	94.4
2400	62.5	72.2	79.4	82.0	89.9	90.0	91.2	92.2	92.6	93.7	93.8	94.3	94.4	94.8	95.2	95.4
2600	62.8	72.6	79.8	82.3	90.2	90.4	91.6	92.6	93.0	94.1	94.2	94.7	94.8	95.2	95.6	95.8
2800	63.0	72.8	80.0	82.6	90.5	90.6	91.9	92.8	93.2	94.3	94.4	94.9	95.1	95.4	95.8	96.0
3000	63.1	73.1	80.2	82.8	90.9	91.0	92.2	93.2	93.6	94.7	94.8	95.3	95.4	95.8	96.2	96.4
3200	63.8	74.0	81.2	83.8	92.2	92.3	93.6	94.6	94.9	96.0	96.2	96.7	96.8	97.2	97.5	97.8
3400	64.1	74.3	81.7	84.6	93.0	93.1	94.3	95.6	95.9	97.0	97.2	97.7	97.8	98.1	98.5	98.8
3600	64.1	74.3	81.7	84.6	93.3	93.5	94.7	95.9	96.3	97.4	97.5	98.0	98.1	98.5	98.9	99.1
3800	64.1	74.4	82.0	84.8	93.6	93.7	94.9	96.2	96.5	97.7	97.8	98.3	98.4	98.8	99.1	99.4
4000	64.1	74.4	82.0	84.8	93.6	93.7	94.9	96.2	96.5	97.7	97.8	98.3	98.4	98.8	99.1	99.4
4200	64.0	74.4	82.0	84.8	93.6	93.7	95.2	96.4	96.8	97.9	98.0	98.5	98.6	99.0	99.4	99.6
4400	64.0	74.4	82.0	84.8	93.6	93.7	95.2	96.4	96.8	97.9	98.0	98.5	98.6	99.0	99.4	99.6
4600	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
4800	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
5000	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
5200	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
5400	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
5600	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
5800	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
6000	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
6200	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
6400	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
6600	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
6800	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
7000	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
7200	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
7400	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
7600	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
7800	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
8000	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
8200	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
8400	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
8600	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
8800	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
9000	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
9200	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
9400	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
9600	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
9800	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8
10000	64.0	74.4	82.0	84.8	93.6	93.7	95.3	96.5	96.9	98.0	98.1	98.6	98.8	99.1	99.5	99.8

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

		VISIBILITY (MILES)																				
		20	26	31	34	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
1	1000	28.8	31.3	33.6	34.8	38.3	38.4	39.2	39.8	40.2	41.3	41.6	41.8	42.0	42.4	42.8	43.7					
2	900	31.3	36.3	39.1	40.5	44.5	44.6	45.5	46.3	46.6	47.9	48.2	48.4	48.6	49.0	49.4	50.6					
3	800	31.6	36.6	39.4	40.8	44.8	45.0	45.9	46.6	47.0	48.2	48.5	48.7	48.9	49.3	49.8	50.9					
4	700	31.7	36.7	39.5	40.9	44.9	45.0	45.9	46.7	47.0	48.3	48.6	48.8	49.0	49.4	49.8	51.0					
5	600	31.7	36.7	39.5	41.0	45.0	45.1	46.0	46.7	47.1	48.3	48.6	48.8	49.0	49.4	49.9	51.0					
6	500	32.4	37.6	40.4	41.8	45.8	46.0	46.9	47.6	48.0	49.2	49.5	49.7	49.9	50.3	50.8	51.9					
7	400	34.4	39.8	42.7	44.2	48.5	48.6	49.6	50.4	50.8	52.2	52.5	52.7	52.9	53.4	53.8	55.0					
8	300	35.4	40.8	43.9	45.5	49.7	49.9	50.8	51.6	52.0	53.4	53.7	53.9	54.2	54.6	55.1	56.2					
9	200	38.3	44.2	47.6	49.3	53.8	54.0	55.1	55.9	56.4	57.8	58.1	58.3	58.6	59.0	59.5	60.7					
10	100	39.2	45.4	48.9	50.5	55.2	55.4	56.5	57.3	57.8	59.2	59.5	59.8	60.0	60.5	60.9	62.1					
11	000	39.9	46.2	49.7	51.3	56.1	56.3	57.4	58.3	58.7	60.2	60.5	60.7	60.9	61.4	61.9	63.1					
12	1000	42.3	49.1	52.9	54.8	60.0	60.2	61.4	62.4	62.9	64.4	64.7	64.9	65.2	65.7	66.2	67.5					
13	900	45.5	52.7	56.7	58.6	64.0	64.1	65.4	66.4	66.9	68.5	68.8	69.1	69.3	69.8	70.3	71.6					
14	800	49.0	56.7	60.9	62.9	69.2	69.4	70.8	71.8	72.3	74.0	74.4	74.7	75.0	75.5	75.9	77.3					
15	700	51.4	59.5	64.0	66.2	72.8	73.0	74.5	75.5	76.1	77.8	78.1	78.4	78.7	79.2	79.7	81.0					
16	600	55.4	64.2	69.1	71.6	78.9	79.3	81.0	82.2	82.7	84.7	85.1	85.4	85.7	86.2	86.7	88.1					
17	500	56.1	65.1	70.1	72.6	80.1	80.5	82.2	83.5	84.1	86.1	86.5	86.8	87.1	87.7	88.1	89.5					
18	400	57.4	66.6	71.7	74.3	82.0	82.4	84.3	85.6	86.2	88.3	88.7	89.0	89.3	89.9	90.3	91.7					
19	300	57.7	66.9	72.0	74.7	82.4	82.7	84.7	86.0	86.6	88.6	89.1	89.4	89.7	90.2	90.7	92.1					
20	200	59.4	67.8	73.0	75.7	83.7	84.0	86.0	87.4	88.0	90.1	90.6	90.9	91.2	91.7	92.2	93.6					
21	100	59.0	68.4	73.6	76.4	84.7	85.0	87.1	88.5	89.1	91.3	91.7	92.0	92.3	92.9	93.4	94.8					
22	000	59.1	68.6	73.9	76.8	85.3	85.7	87.7	89.3	89.9	92.1	92.5	92.9	93.2	93.8	94.2	95.6					
23	1000	59.1	68.7	74.0	76.9	85.4	85.8	87.8	89.3	90.0	92.2	92.7	93.0	93.3	93.9	94.4	95.8					
24	900	59.1	68.7	74.0	77.0	85.5	85.9	87.9	89.5	90.2	92.4	92.8	93.1	93.5	94.1	94.6	95.9					
25	800	59.1	68.7	74.0	77.0	85.5	85.9	88.0	89.6	90.3	92.5	92.9	93.3	93.6	94.2	94.7	96.1					
26	700	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.8	90.5	92.7	93.2	93.5	93.8	94.5	94.9	96.3					
27	600	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.8	90.5	92.9	93.3	93.7	94.0	94.7	95.2	96.6					
28	500	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.8	90.5	92.9	93.4	93.8	94.1	94.8	95.3	96.7					
29	400	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.8	90.6	93.0	93.5	93.9	94.2	94.9	95.6	97.2					
30	300	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.9	90.6	93.1	93.5	93.9	94.3	95.1	95.9	98.0					
31	200	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.9	90.6	93.1	93.6	94.0	94.3	95.2	96.0	99.2					
32	100	59.1	68.7	74.1	77.0	85.7	86.0	88.2	89.9	90.6	93.1	93.6	94.0	94.4	95.2	96.6	100.0					

TOTAL NUMBER OF OBSERVATIONS 6478

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

CEILING		VISIBILITY IN FEET																
		200	26	31	34	37	40	43	46	49	52	55	58	61	64	67	70	73
1	1000	13.5	16.0	18.6	19.6	23.6	23.6	24.8	26.1	27.2	30.1	30.1	30.4	31.1	32.8	35.2	36.6	
2	900	15.2	17.7	20.2	21.3	25.6	25.7	26.9	28.5	29.7	32.8	32.9	33.3	34.0	35.8	38.4	40.1	
3	800	15.2	17.7	20.2	21.3	25.6	25.7	26.9	28.5	29.7	32.8	32.9	33.3	34.0	35.8	38.4	40.1	
4	700	15.2	17.7	20.2	21.3	25.6	25.7	26.9	28.5	29.7	32.8	32.9	33.3	34.0	35.8	38.4	40.1	
5	600	15.4	18.0	20.5	21.6	25.9	26.0	27.2	28.7	29.9	33.1	33.2	33.5	34.3	36.0	39.7	40.4	
6	500	16.3	19.6	22.2	23.2	27.5	27.7	28.9	30.4	31.6	34.7	34.9	35.2	35.9	37.7	47.4	42.0	
7	400	16.8	20.4	23.1	24.2	28.6	28.7	29.9	31.5	32.7	35.8	35.9	36.3	37.2	39.0	41.7	43.4	
8	300	17.6	21.6	24.4	25.7	30.3	30.4	31.6	33.4	34.7	38.0	38.1	38.4	39.4	41.2	43.9	45.5	
9	200	18.1	22.0	24.9	26.2	30.8	31.0	32.2	34.0	35.3	38.6	38.7	39.0	40.0	41.8	44.4	46.1	
10	100	18.2	22.2	25.0	26.3	30.9	31.1	32.3	34.1	35.4	38.7	38.8	39.2	40.1	41.9	44.6	46.2	
11	50	18.7	23.4	26.7	28.0	32.9	33.2	34.7	36.6	38.1	41.6	41.7	42.0	43.0	44.9	47.5	49.2	
12	20	23.7	28.9	32.4	34.4	39.6	39.9	41.4	43.4	44.8	48.5	48.6	49.0	49.9	51.9	54.5	56.2	
13	10	27.8	33.1	38.1	39.8	45.9	46.1	48.0	50.3	51.9	55.8	55.9	56.3	57.2	59.3	61.9	63.6	
14	5	29.8	35.9	41.2	43.0	49.6	49.8	51.7	54.1	55.7	59.8	59.9	60.2	61.2	63.2	65.9	67.5	
15	2	32.7	38.9	45.0	47.4	54.5	54.7	56.9	59.4	61.0	65.3	65.4	66.0	66.9	69.1	72.0	73.7	
16	1	34.8	41.3	47.5	50.4	57.5	57.7	59.9	62.5	64.1	68.5	68.6	69.2	70.2	72.3	75.2	76.9	
17	0	36.2	43.6	49.8	52.9	60.5	60.8	63.0	65.6	67.2	71.6	71.7	72.3	73.3	75.4	78.3	80.0	
18	0.5	36.8	44.4	50.7	53.8	61.3	61.7	63.8	66.5	68.0	72.5	72.6	73.2	74.1	76.3	79.2	80.8	
19	0.2	38.1	46.2	52.5	56.2	64.1	64.4	66.6	69.2	70.8	75.3	75.4	76.0	77.0	79.3	82.2	83.8	
20	0.1	38.3	46.5	52.7	56.8	65.1	65.6	67.9	70.9	72.5	77.0	77.1	77.7	78.7	81.7	83.8	85.5	
21	0.05	39.3	47.5	53.8	58.1	66.9	67.5	70.2	73.4	75.0	79.9	80.0	80.6	81.6	83.8	86.7	88.4	
22	0.02	39.3	47.5	53.8	58.2	67.3	67.9	70.5	74.1	75.7	80.8	81.0	81.6	82.5	84.8	87.7	89.3	
23	0.01	39.4	47.7	53.9	58.3	67.5	68.1	71.1	74.7	76.3	81.7	81.8	82.4	83.4	85.6	88.6	90.3	
24	0.005	39.5	47.8	54.0	58.4	67.8	68.4	71.7	75.3	76.9	82.5	82.6	83.2	84.2	86.5	89.5	91.1	
25	0.002	39.5	47.8	54.0	58.4	67.9	68.5	72.3	76.0	77.6	83.8	84.0	84.6	85.5	87.8	90.8	92.5	
26	0.001	39.5	47.8	54.0	58.4	67.9	68.5	72.3	76.0	77.6	84.0	84.1	84.7	85.6	88.0	91.1	92.8	
27	0.0005	39.5	47.8	54.0	58.4	68.1	68.7	72.6	76.4	78.0	84.6	84.8	85.4	86.3	88.7	91.9	93.7	
28	0.0002	39.5	47.8	54.0	58.4	68.1	68.7	72.7	76.5	78.3	84.9	85.4	86.1	87.1	89.5	92.6	94.6	
29	0.0001	39.5	47.8	54.0	58.4	68.1	68.7	72.8	76.6	78.4	85.0	85.6	86.3	87.3	89.8	93.8	97.0	
30	0.00005	39.5	47.8	54.0	58.4	68.1	68.7	72.9	76.8	78.6	85.1	85.7	86.5	87.4	89.9	94.3	99.9	
31	0.00002	39.5	47.8	54.0	58.4	68.1	68.7	72.9	76.8	78.6	85.1	85.7	86.5	87.4	89.9	94.3	100.0	

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

3300-0500

CEILING FEET	VISIBILITY STATISTICAL INTERVALS															
	200	26	31	34	37	42	47	52	57	62	67	72	77	82	87	92
NO CEILING	17.9	12.9	13.9	15.0	19.3	19.4	19.9	21.4	22.0	24.0	24.1	24.2	25.6	26.8	28.6	31.2
≥ 20000	11.8	13.9	14.8	15.9	20.5	20.6	21.2	22.7	23.5	25.7	25.8	25.9	27.3	28.6	30.4	33.1
≥ 18000	11.8	13.9	14.8	15.9	20.5	20.6	21.2	22.7	23.5	25.7	25.8	25.9	27.3	28.6	30.4	33.1
≥ 16000	11.9	14.0	15.7	16.0	20.7	20.9	21.5	22.9	23.8	25.9	26.1	26.2	27.5	28.8	30.6	33.3
≥ 14000	11.9	14.0	15.7	16.0	20.7	20.9	21.5	22.9	23.8	25.9	26.1	26.2	27.5	28.8	30.6	33.3
≥ 12000	11.9	14.0	15.7	16.0	20.7	20.9	21.5	22.9	23.8	25.9	26.1	26.2	27.5	28.8	30.6	33.3
≥ 10000	12.3	14.7	15.7	16.8	21.6	21.7	22.3	23.8	24.6	26.8	26.9	27.0	28.3	29.7	31.5	34.1
≥ 9000	12.8	15.2	16.2	17.2	22.3	22.4	23.2	24.7	25.6	27.7	27.9	28.0	29.3	30.6	32.4	35.1
≥ 8000	13.5	16.3	17.2	18.5	23.6	23.8	24.7	26.5	27.4	29.7	29.8	29.9	31.2	32.6	34.4	37.7
≥ 7000	13.6	16.4	17.4	18.6	23.8	23.9	24.6	26.7	27.5	29.8	29.9	30.0	31.4	32.7	34.5	37.2
≥ 6000	14.2	17.0	18.1	19.3	24.5	24.6	25.3	27.5	28.3	31.0	31.1	31.2	32.6	33.9	35.7	38.4
≥ 5000	15.2	18.7	20.1	21.6	27.3	27.5	28.3	31.0	31.8	35.2	35.3	35.5	36.8	38.2	40.0	42.7
≥ 4500	20.0	23.8	26.2	27.7	34.6	35.0	35.9	38.6	39.4	42.8	42.9	43.1	44.4	45.8	47.6	50.3
≥ 4000	23.9	28.1	30.6	32.3	39.6	39.9	40.9	43.5	44.4	47.9	48.7	48.8	49.6	51.0	53.0	55.6
≥ 3500	26.4	31.2	34.0	35.7	43.5	43.9	44.9	47.5	48.4	52.0	52.1	52.4	53.7	55.1	57.1	59.7
≥ 3000	29.1	34.5	37.5	39.3	47.5	47.9	49.2	52.7	53.7	57.4	57.5	58.0	59.3	60.9	63.0	65.6
≥ 2500	30.9	36.4	39.4	42.1	50.5	50.9	52.2	55.7	56.7	60.4	60.6	61.0	62.4	63.9	66.0	68.6
≥ 2000	33.1	39.4	42.5	45.4	54.3	54.8	56.1	59.7	60.8	64.7	64.8	65.3	66.6	68.3	70.3	73.0
≥ 1800	33.2	39.6	42.7	45.6	54.9	55.5	56.8	60.4	61.5	65.4	65.5	66.0	67.3	69.0	71.0	73.7
≥ 1500	35.8	42.9	46.1	49.7	59.2	59.8	61.5	65.1	66.2	70.3	70.4	70.9	72.3	73.9	76.0	78.6
≥ 1200	36.2	43.3	46.4	50.1	60.0	60.6	62.4	66.1	67.2	71.4	71.5	72.0	73.3	75.0	77.1	79.7
≥ 1000	36.8	44.0	47.2	51.3	61.2	61.8	64.2	68.0	69.1	74.3	74.4	74.9	76.2	77.9	80.0	82.6
≥ 900	37.4	44.8	47.9	52.0	62.2	62.8	65.3	69.2	70.6	75.8	75.9	76.4	77.7	79.4	81.4	84.1
≥ 800	37.8	45.2	48.4	52.8	63.4	64.1	66.7	70.9	72.3	77.7	77.8	78.3	79.6	81.3	83.4	86.0
≥ 700	38.0	45.6	48.7	53.2	63.9	64.5	67.4	71.8	73.1	78.5	78.6	79.1	80.5	82.1	84.2	86.9
≥ 600	38.0	45.6	48.7	53.2	64.1	64.7	68.2	72.5	74.1	80.1	80.2	80.7	82.0	83.7	85.8	88.4
≥ 500	38.0	45.6	48.7	53.2	64.1	64.7	68.2	72.5	74.1	80.5	80.6	81.1	82.4	84.4	86.5	89.1
≥ 400	38.0	45.6	48.7	53.2	64.1	64.7	68.2	72.9	74.4	81.4	81.7	82.1	83.5	85.5	87.6	90.2
≥ 300	38.0	45.6	48.7	53.2	64.1	64.7	68.6	73.3	75.3	82.4	82.8	83.4	84.7	86.7	88.8	91.9
≥ 200	38.0	45.6	48.7	53.2	64.1	64.7	68.6	73.3	75.3	82.5	82.9	83.6	84.9	87.5	90.1	94.6
≥ 100	38.0	45.6	48.7	53.2	64.1	64.7	68.6	73.3	75.3	82.8	83.1	84.0	85.3	88.2	91.7	99.4
≥ 0	38.0	45.6	48.7	53.2	64.1	64.7	68.6	73.5	75.4	82.9	83.2	84.1	85.4	88.3	92.0	100.0

TOTAL NUMBER OF OBSERVATIONS 829

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1600-0600

CEILING - FEET		VISIBILITY - STATUTE MILES															
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO CEILING	5.2	7.0	7.9	6.6	11.4	11.5	12.3	12.6	12.6	13.8	14.4	14.4	14.6	15.4	16.5	18.0	
2-2000	6.9	9.0	10.0	11.1	14.4	14.5	15.6	16.0	16.2	17.9	18.5	18.6	19.0	19.9	21.1	23.1	
2-4000	6.9	9.0	10.0	11.1	14.4	14.5	15.6	16.0	16.2	17.9	18.5	18.6	19.0	19.9	21.1	23.1	
2-4000	6.9	9.0	10.0	11.1	14.4	14.5	15.6	16.0	16.2	17.9	18.5	18.6	19.0	19.9	21.1	23.1	
2-4000	7.7	9.1	10.2	11.3	14.5	14.6	15.7	16.1	16.3	18.0	18.6	18.8	19.1	20.0	21.4	23.5	
2-12000	7.7	9.1	10.2	11.3	14.5	14.6	15.7	16.1	16.3	18.0	18.6	18.8	19.1	20.0	21.4	23.6	
2-4000	7.7	9.8	11.0	12.1	15.4	15.5	16.6	16.9	17.2	18.9	19.5	19.7	20.1	21.1	22.5	24.7	
2-4000	8.1	10.2	11.4	12.6	16.0	16.1	17.2	17.7	17.9	19.7	20.3	20.6	20.9	21.9	23.4	25.5	
2-8000	8.5	10.7	12.0	13.3	17.1	17.3	18.6	19.2	19.5	21.3	21.9	22.2	22.5	23.5	24.9	27.1	
2-10000	9.0	11.3	12.6	13.9	17.7	17.9	19.2	19.9	20.1	21.9	22.5	22.8	23.1	24.1	25.5	27.7	
2-500	9.1	11.6	13.0	14.3	18.0	18.3	19.6	20.2	20.5	22.3	22.9	23.1	23.5	24.6	26.2	28.3	
2-5000	10.0	12.8	14.5	16.2	20.6	21.2	22.5	23.4	23.7	26.0	26.9	27.1	27.5	28.7	30.5	32.7	
2-400	13.1	16.3	18.6	20.8	26.4	27.0	28.5	29.4	29.9	32.2	33.1	33.3	33.7	34.9	36.7	38.9	
2-4000	16.8	21.1	23.5	25.8	32.6	33.2	34.6	35.8	36.3	38.6	39.5	39.7	40.1	41.3	43.1	45.3	
2-3500	18.8	23.6	27.0	29.9	37.5	38.1	39.8	41.0	41.5	43.8	44.7	44.9	45.3	46.5	48.3	50.5	
2-3000	20.8	26.5	29.9	33.2	41.5	42.1	43.8	45.4	46.4	49.4	50.4	50.7	51.5	52.8	54.6	56.9	
2-2500	21.8	28.0	31.7	35.5	44.1	44.7	46.4	48.1	49.3	52.2	53.1	53.5	54.2	55.6	57.4	59.7	
2-2000	24.5	31.1	35.1	39.2	48.3	48.9	50.7	52.5	53.6	56.9	57.9	58.2	59.0	60.4	62.2	64.5	
2-1800	24.8	31.6	35.8	40.3	49.5	50.1	51.9	53.8	54.8	58.1	59.1	59.4	60.2	61.6	63.4	65.7	
2-1500	28.6	36.1	40.7	45.5	55.9	56.7	58.8	60.7	61.7	65.5	66.8	67.3	68.0	69.5	71.3	73.6	
2-1200	28.9	36.7	41.4	46.7	57.9	58.7	61.3	63.1	64.2	68.0	69.4	69.9	70.6	72.0	73.8	76.2	
2-1000	29.2	37.3	42.0	47.3	59.9	60.8	63.8	65.7	66.9	71.2	72.5	73.0	73.7	75.2	77.0	79.3	
2-900	29.3	37.3	42.1	47.6	60.7	61.7	64.9	67.3	68.5	72.8	74.1	74.5	75.3	76.8	78.6	80.9	
2-800	29.4	37.7	42.5	47.9	61.1	62.2	65.5	67.9	69.1	73.7	75.1	75.5	76.3	77.7	79.5	81.8	
2-700	29.4	37.7	42.5	47.9	61.6	62.7	66.1	68.8	70.0	74.9	76.3	76.8	77.5	78.9	80.8	83.1	
2-600	29.4	37.7	42.5	48.2	62.1	63.3	66.7	70.3	71.5	76.6	78.0	78.6	79.4	80.9	82.7	85.0	
2-500	29.4	37.7	42.5	48.2	62.5	63.7	67.1	70.7	71.9	77.6	79.1	79.8	80.6	82.1	83.9	86.2	
2-400	29.4	37.7	42.5	48.2	62.5	63.7	67.3	71.2	72.5	78.8	80.6	81.7	82.6	84.0	86.1	88.7	
2-300	29.4	37.7	42.5	48.2	62.5	63.7	67.4	71.5	73.0	79.8	81.8	83.1	84.3	85.7	87.9	91.5	
2-200	29.4	37.7	42.5	48.2	62.5	63.7	67.4	71.5	73.0	80.3	82.3	83.8	85.0	86.8	89.8	95.4	
2-100	29.4	37.7	42.5	48.2	62.5	63.7	67.4	71.5	73.0	80.4	82.4	83.9	85.1	87.0	90.9	99.6	
2-00	29.4	37.7	42.5	48.2	62.5	63.7	67.4	71.5	73.0	80.4	82.4	83.9	85.1	87.0	91.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 826

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
≥ 1000	7.7	9.3	11.8	11.8	14.8	14.9	15.4	15.8	15.9	16.3	16.3	16.3	16.3	16.3	16.3	16.5	17.0													
≥ 800	10.7	13.0	14.7	15.8	19.5	19.6	20.4	21.0	21.4	22.2	22.3	22.3	22.3	22.3	22.4	22.9	23.6													
≥ 600	10.7	13.0	14.7	15.8	19.5	19.6	20.4	21.0	21.4	22.2	22.3	22.3	22.3	22.3	22.4	22.9	23.6													
≥ 400	10.7	13.0	14.7	15.8	19.5	19.6	20.4	21.0	21.4	22.2	22.3	22.3	22.3	22.3	22.4	22.9	23.6													
≥ 200	11.4	13.7	15.4	16.6	20.7	20.8	21.6	22.2	22.7	23.4	23.5	23.5	23.5	23.5	23.6	24.2	24.9													
≥ 100	12.0	14.3	16.1	17.2	21.6	21.7	22.4	23.0	23.5	24.3	24.5	24.5	24.5	24.5	24.6	25.2	26.0													
≥ 80	12.2	14.5	16.1	17.6	22.0	22.2	22.9	23.5	24.0	24.9	25.1	25.1	25.1	25.2	25.8	26.6														
≥ 60	13.3	15.7	17.8	19.5	24.2	24.3	25.3	25.9	26.4	27.3	27.5	27.5	27.5	27.6	28.2	29.0														
≥ 40	13.4	15.9	18.2	19.9	24.9	25.1	26.0	26.6	27.1	28.1	28.2	28.2	28.2	28.3	28.9	29.8														
≥ 20	13.5	16.3	18.7	20.4	25.4	25.5	26.5	27.1	27.6	28.6	28.7	28.7	28.7	28.8	29.4	30.2														
≥ 10	14.2	17.3	19.8	21.6	26.9	27.0	28.1	28.7	29.2	30.8	31.0	31.0	31.0	31.2	31.8	32.7														
≥ 5	17.5	20.8	23.6	25.7	31.9	32.2	33.3	33.9	34.3	36.4	36.5	36.5	36.6	36.9	37.5	38.3														
≥ 3	19.0	21.3	26.7	29.2	36.1	36.5	37.8	38.4	39.0	41.1	41.2	41.2	41.3	41.7	42.3	43.1														
≥ 1500	20.7	25.3	29.6	32.3	39.6	40.0	41.6	42.2	42.9	44.9	45.1	45.1	45.2	45.5	46.1	47.0														
≥ 1000	23.3	29.6	34.5	37.3	45.4	45.8	47.6	48.7	49.8	52.3	52.4	52.4	52.7	53.0	53.6	54.6														
≥ 800	25.3	32.7	37.6	40.5	49.0	49.4	51.3	52.4	53.5	56.0	56.1	56.1	56.4	56.7	57.3	58.3														
≥ 600	27.2	34.9	40.4	43.7	53.1	53.5	55.5	56.7	57.8	60.6	60.7	60.7	61.0	61.3	61.9	62.9														
≥ 400	28.2	36.0	41.6	44.9	54.6	54.9	57.0	58.2	59.3	62.3	62.4	62.4	62.7	63.0	63.6	64.6														
≥ 200	31.1	39.4	45.8	49.6	60.8	61.3	63.9	65.3	66.6	69.8	69.9	70.0	70.2	70.6	71.2	72.2														
≥ 100	33.3	42.9	49.4	53.4	65.4	66.1	68.8	70.2	71.6	74.7	74.9	75.1	75.3	75.7	76.3	77.2														
≥ 80	34.3	44.3	51.6	56.0	70.0	70.7	73.7	75.3	76.6	80.0	80.2	80.4	80.6	81.0	81.7	82.7														
≥ 60	34.3	44.5	51.7	56.3	70.8	71.6	74.6	76.5	78.0	81.4	81.7	81.8	82.0	82.4	83.1	84.1														
≥ 40	34.3	44.8	52.0	56.7	72.2	72.9	76.0	78.3	80.0	84.0	84.2	84.3	84.6	84.9	85.7	86.6														
≥ 20	34.3	44.8	52.0	56.9	72.9	73.7	76.9	79.4	81.2	85.8	86.0	86.3	86.5	86.9	87.6	88.6														
≥ 10	34.3	44.8	52.0	56.9	73.0	74.0	77.3	79.9	81.7	87.0	87.2	87.5	87.8	88.2	88.9	89.9														
≥ 5	34.3	44.8	52.0	56.9	73.0	74.0	77.5	80.0	82.0	88.6	88.8	89.4	89.8	90.1	91.0	92.0														
≥ 3	34.3	44.8	52.0	56.9	73.0	74.0	77.5	80.2	82.4	89.4	89.9	90.6	91.1	92.0	92.9	94.6														
≥ 1	34.3	44.8	52.0	56.9	73.0	74.0	77.5	80.2	82.5	90.1	90.7	91.6	92.5	93.7	95.3	97.7														
≥ 0	34.3	44.8	52.0	56.9	73.0	74.0	77.5	80.2	82.5	90.1	90.7	91.6	92.7	94.0	95.8	99.8														
≥ 0	34.3	44.8	52.0	56.9	73.0	74.0	77.5	80.2	82.5	90.1	90.7	91.6	92.7	94.1	95.9	100.0														

TOTAL NUMBER OF OBSERVATIONS 830

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AT: WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING (FEET)		VISIBILITY (STATUTE MILES)															
1	2	1/8	1/4	1/2	3/4	1	1 1/4	1 1/2	2	3	4	5	6	7	8	9	10
16.5	18.3	19.1	20.6	23.0	23.1	23.2	23.3	23.3	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7
21.4	24.0	25.2	26.9	29.4	29.5	29.7	29.9	29.9	30.3	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4
21.7	24.2	25.4	27.0	29.5	29.7	29.8	30.0	30.0	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5
22.1	24.3	25.5	27.2	29.7	29.8	29.9	30.1	30.1	30.5	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6
22.7	24.3	25.5	27.2	29.7	29.8	29.9	30.1	30.1	30.5	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6
23.1	25.5	26.7	28.3	30.9	31.0	31.1	31.3	31.3	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8
24.3	26.7	27.9	29.7	32.4	32.5	32.7	33.0	33.0	33.4	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
24.9	27.3	28.5	30.3	33.0	33.1	33.3	33.6	33.6	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1
26.3	29.2	30.5	32.8	35.6	35.8	35.9	36.2	36.2	36.6	36.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7
26.8	29.4	30.7	33.0	35.9	36.2	36.4	36.7	36.7	37.1	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2
26.9	29.4	30.7	33.0	35.9	36.2	36.4	36.7	36.7	37.1	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2
28.7	31.6	33.1	35.3	38.8	39.1	39.2	39.6	39.6	40.0	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1
33.1	36.5	38.2	40.7	44.6	45.0	45.1	45.5	45.5	45.9	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1
35.8	40.0	41.6	44.1	48.4	48.8	48.9	49.3	49.3	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9
40.0	44.6	46.8	49.4	54.2	54.8	54.9	55.5	55.5	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
47.1	53.0	55.4	58.3	64.1	65.1	65.3	66.0	66.4	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2
50.2	57.3	59.7	63.0	69.0	70.0	70.3	71.1	71.4	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2
52.0	59.4	62.2	66.0	73.2	74.2	74.6	75.5	75.8	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8
53.2	60.8	63.8	67.6	75.0	76.0	76.4	77.3	77.6	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6
55.7	63.8	67.1	71.2	80.1	81.1	81.7	82.5	82.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0
56.9	64.8	68.4	72.7	83.3	84.2	85.0	85.9	86.4	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7
57.5	65.7	69.9	74.4	86.0	87.1	88.0	88.9	89.5	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
57.8	66.0	70.5	75.0	86.8	87.9	89.0	90.0	90.6	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9
58.7	66.3	70.7	75.2	88.0	89.1	90.4	91.6	92.2	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
58.3	66.5	70.9	75.5	88.9	90.1	91.4	92.6	93.2	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5
58.3	66.5	70.9	75.5	89.4	90.6	92.0	93.5	94.4	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
58.3	66.5	70.9	75.5	89.5	90.8	92.5	94.3	95.1	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7
58.3	66.5	70.9	75.5	89.6	90.9	92.7	94.6	95.5	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
58.3	66.5	70.9	75.5	89.6	90.9	92.7	94.6	95.6	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
58.3	66.5	70.9	75.5	89.6	90.9	92.7	94.6	95.6	98.9	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4
58.3	66.5	70.9	75.5	89.6	90.9	92.7	94.6	95.6	98.9	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5
58.3	66.5	70.9	75.5	89.6	90.9	92.7	94.6	95.6	98.9	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

836

CEILING VERSUS VISIBILITY

OCT

1500-1700

TOTAL NUMBER OF OBSERVATIONS 837

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

1 145

73-e1

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1870-2000

	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
24.1	25.4	26.6	27.2	32.4	32.6	33.9	34.1	34.1	34.6	34.9	34.9	34.9	35.0	35.1	35.5		
27.4	28.5	30.7	34.3	34.9	38.5	38.7	40.7	40.9	40.9	41.9	42.2	42.2	42.3	42.4	42.5	42.9	
28.7	28.7	30.8	34.4	35.0	38.6	38.8	40.9	41.0	41.0	42.1	42.3	42.3	42.4	42.5	42.7	43.0	
28.7	28.7	30.8	34.4	35.0	38.7	38.9	41.0	41.1	41.1	42.2	42.4	42.4	42.5	42.7	42.8	43.1	
29.0	29.0	31.5	35.1	35.7	39.4	39.7	41.7	41.8	41.8	42.9	43.1	43.1	43.2	43.4	43.5	43.8	
30.7	30.7	33.8	37.4	38.0	41.7	41.9	44.1	44.2	44.2	45.3	45.5	45.5	45.6	45.8	45.9	46.2	
31.3	31.3	34.2	38.0	38.6	42.5	42.8	44.9	45.0	45.0	46.1	46.4	46.4	46.5	46.6	46.7	47.1	
34.5	34.5	37.6	41.6	42.5	46.8	47.1	49.2	49.3	49.3	50.4	50.7	50.7	50.8	50.9	51.5	51.4	
35.5	35.5	38.7	42.7	43.6	47.9	48.1	50.3	50.4	50.4	51.5	51.7	51.7	51.9	52.0	52.1	52.4	
36.7	36.7	39.5	43.5	44.4	49.0	49.2	51.4	51.5	51.5	52.6	52.8	52.8	52.9	53.0	53.2	53.5	
39.3	39.3	42.9	46.8	47.8	52.4	52.7	54.8	55.0	55.0	56.0	56.3	56.3	56.4	56.5	56.6	57.0	
45.3	45.3	49.7	54.5	55.4	61.1	61.3	63.4	63.6	63.6	64.6	64.9	64.9	65.0	65.1	65.2	65.6	
47.9	47.9	52.9	57.8	58.9	64.6	65.1	67.4	67.5	67.5	68.6	68.8	68.8	68.9	69.1	69.2	69.5	
51.1	51.1	56.4	61.5	62.6	68.8	69.3	71.7	71.8	71.8	72.9	73.1	73.1	73.2	73.4	73.5	73.8	
54.3	54.3	60.7	67.1	68.2	74.7	75.1	77.7	77.8	77.8	78.9	79.1	79.1	79.2	79.3	79.5	79.8	
56.5	56.5	63.7	69.7	70.7	77.8	78.4	81.0	81.2	81.2	82.3	82.6	82.6	82.7	82.8	82.9	83.3	
58.2	58.2	65.0	72.2	73.7	81.5	82.2	84.7	84.9	84.9	86.0	86.3	86.3	86.4	86.5	86.6	87.0	
58.4	58.4	65.2	72.4	74.2	82.2	82.7	85.4	85.6	85.6	86.9	87.1	87.1	87.2	87.3	87.5	87.8	
59.3	59.3	66.2	73.4	75.7	84.6	85.1	87.9	88.3	88.3	89.4	89.6	89.6	89.7	89.8	90.0	90.3	
59.7	59.7	66.7	74.0	76.3	86.4	87.2	90.2	90.8	91.0	92.1	92.4	92.4	92.5	92.6	92.7	93.1	
59.7	59.7	66.8	74.1	76.5	87.1	87.7	90.8	91.5	91.9	93.3	93.5	93.5	93.7	93.8	93.9	94.3	
59.7	59.7	66.8	74.2	76.6	87.5	88.1	91.3	92.0	92.4	94.1	94.4	94.4	94.5	94.6	94.7	95.1	
60.0	60.0	67.3	74.8	77.2	88.3	88.9	92.1	92.8	93.2	95.0	95.2	95.2	95.3	95.5	95.6	95.9	
60.0	60.0	67.3	74.8	77.2	88.3	88.9	92.1	92.8	93.2	95.0	95.2	95.2	95.3	95.5	95.6	95.9	
60.0	60.0	67.3	74.8	77.2	88.5	89.1	92.5	93.8	94.6	96.8	97.0	97.0	97.1	97.3	97.4	97.7	
60.0	60.0	67.3	74.8	77.2	88.6	89.2	92.6	94.0	94.9	97.5	97.7	97.7	97.8	98.0	98.1	98.4	
60.0	60.0	67.3	74.8	77.2	88.6	89.2	92.6	94.1	95.2	98.0	98.2	98.2	98.6	98.7	98.8	98.9	
60.0	60.0	67.3	74.8	77.2	88.6	89.2	92.6	94.1	95.2	98.1	98.3	98.7	98.8	98.9	99.0	99.8	
60.0	60.0	67.3	74.8	77.2	88.6	89.2	92.6	94.1	95.2	98.1	98.3	98.7	98.8	98.9	99.0	100.0	
60.0	60.0	67.3	74.8	77.2	88.6	89.2	92.6	94.1	95.2	98.1	98.3	98.7	98.8	98.9	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS

837

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

		VISIBILITY - STATUTE MILES															
		210	20	21	24	25	27	28	30	32	34	36	38	40	42	44	46
1	1000	18.5	23.1	24.9	25.9	30.5	30.9	33.0	33.8	34.2	36.2	36.3	36.8	37.3	38.1	39.1	39.5
2	900	20.4	25.2	27.5	28.6	33.6	34.1	36.2	37.2	37.5	40.3	40.4	41.0	41.6	42.4	43.4	43.8
3	800	20.5	25.2	27.6	28.7	33.7	34.2	36.3	37.3	37.6	40.4	40.5	41.1	41.7	42.5	43.5	44.0
4	700	20.5	25.2	27.6	28.7	33.7	34.2	36.3	37.3	37.6	40.4	40.5	41.1	41.7	42.5	43.5	44.0
5	600	20.5	25.3	27.7	28.8	33.9	34.4	36.6	37.5	37.9	40.6	40.7	41.3	41.9	42.8	43.7	44.2
6	500	20.7	25.8	28.2	29.3	34.5	35.0	37.2	38.1	38.5	41.2	41.3	41.9	42.5	43.4	44.3	44.8
7	400	22.5	27.6	30.0	31.1	36.3	36.8	38.9	39.9	40.3	43.0	43.1	43.7	44.3	45.2	46.1	46.6
8	300	22.8	28.1	30.6	31.7	36.9	37.4	39.5	40.6	41.0	43.7	43.8	44.4	45.0	45.9	46.8	47.3
9	200	24.6	30.1	32.6	33.7	39.1	39.5	41.7	42.9	43.2	46.1	46.2	46.8	47.4	48.3	49.2	49.7
10	100	25.7	31.2	33.7	34.8	40.3	40.7	42.9	44.1	44.4	47.3	47.4	48.0	48.6	49.5	50.4	50.9
11	50	26.2	31.8	34.3	35.4	40.9	41.3	43.5	44.7	45.0	48.1	48.3	48.9	49.5	50.3	51.3	51.7
12	25	29.4	35.0	37.5	38.6	44.1	44.6	47.1	48.3	48.6	51.9	52.0	52.6	53.2	54.0	55.0	55.4
13	10	35.8	41.8	45.5	47.3	53.5	54.0	56.6	57.8	58.2	61.4	61.5	62.1	62.7	63.6	64.5	65.0
14	5	39.7	46.1	50.2	52.0	59.0	59.5	62.2	63.8	64.2	67.5	67.6	68.2	68.8	69.7	70.6	71.1
15	2	40.6	47.6	52.1	54.0	62.2	62.7	65.5	67.0	67.4	70.8	71.0	71.6	72.2	73.0	74.0	74.4
16	1	43.6	51.6	56.4	58.8	67.1	67.6	70.5	72.2	72.8	76.2	76.5	77.1	77.7	78.5	79.5	80.0
17	0.5	45.2	53.5	58.5	61.2	70.1	70.6	73.5	75.1	75.7	79.2	79.5	80.0	80.6	81.5	82.4	83.0
18	0.2	46.8	55.8	60.9	63.8	73.1	73.6	76.7	78.4	79.0	82.4	82.7	83.3	83.9	84.7	85.7	86.3
19	0.1	47.7	56.6	61.9	64.8	74.1	74.6	77.7	79.3	79.9	83.5	83.8	84.3	84.9	85.8	86.7	87.3
20	0.05	48.3	57.5	63.0	66.4	76.8	77.3	80.9	82.6	83.2	86.7	87.0	87.6	88.2	89.0	90.0	90.6
21	0.02	48.9	58.4	63.9	67.4	78.1	78.6	82.2	84.0	84.6	88.2	88.4	89.0	89.6	90.4	91.4	92.0
22	0.01	48.9	58.5	64.0	67.7	79.0	79.5	83.3	85.2	85.9	89.8	90.1	90.7	91.3	92.1	93.1	93.7
23	0.005	48.9	58.5	64.2	67.9	79.2	79.7	83.5	85.4	86.1	90.4	90.7	91.3	91.9	92.7	93.7	94.3
24	0.002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
25	0.001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
26	0.0005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
27	0.0002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
28	0.0001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
29	0.00005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
30	0.00002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
31	0.00001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
32	0.000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
33	0.000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
34	0.000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
35	0.0000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
36	0.0000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
37	0.0000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
38	0.00000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
39	0.00000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
40	0.00000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
41	0.000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
42	0.000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
43	0.000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
44	0.0000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
45	0.0000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
46	0.0000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
47	0.00000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
48	0.00000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
49	0.00000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
50	0.000000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
51	0.000000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
52	0.000000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
53	0.0000000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
54	0.0000000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
55	0.0000000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
56	0.00000000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
57	0.00000000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
58	0.00000000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
59	0.000000000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
60	0.000000000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
61	0.000000000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
62	0.0000000000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
63	0.0000000000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
64	0.0000000000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
65	0.00000000000000005	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
66	0.00000000000000002	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
67	0.00000000000000001	48.9	58.5	64.4	68.1	79.5	79.9	84.0	85.9	86.6	91.4	91.6	92.2	92.8	93.7	94.6	95.2
68	0.000000000000000005	4															

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	21	14	11	03	2	27	20	17	14	11	7	4.3	2.5	2.0
NO. CEILING	14.3	17.2	18.8	19.8	23.1	23.2	24.1	24.6	24.9	26.1	26.2	26.4	26.7	27.3	28.1	29.3
2 20000	18.0	20.7	22.6	23.7	27.4	27.6	28.6	29.3	29.7	31.2	31.4	31.6	31.9	32.6	33.5	34.5
2 18000	18.1	20.8	22.7	23.8	27.5	27.7	28.7	29.4	29.7	31.3	31.5	31.6	32.0	32.6	33.5	34.5
2 16000	18.1	20.8	22.7	23.8	27.5	27.7	28.7	29.4	29.8	31.3	31.5	31.7	32.1	32.7	33.6	34.6
2 14000	19.1	21.8	22.8	23.9	27.6	27.8	28.8	29.5	29.9	31.4	31.6	31.7	32.1	32.8	33.7	34.7
2 12000	18.6	21.4	23.3	24.4	28.2	28.4	29.4	30.1	30.4	32.0	32.2	32.3	32.7	33.3	34.3	35.3
2 10000	19.7	22.7	24.7	25.8	29.7	29.9	30.9	31.6	32.0	33.5	33.7	33.9	34.3	34.9	35.9	36.9
2 9000	20.1	23.2	25.2	26.5	30.5	30.6	31.7	32.4	32.8	34.4	34.6	34.8	35.2	35.8	36.8	37.8
2 8000	21.7	25.0	27.2	28.6	32.8	33.0	34.1	34.9	35.4	37.0	37.2	37.3	37.8	38.4	39.3	40.4
2 7000	22.3	25.7	27.8	29.2	33.5	33.8	34.9	35.7	36.1	37.8	37.9	38.1	38.5	39.2	40.1	41.1
2 6000	22.6	26.1	28.3	29.8	34.0	34.3	35.4	36.3	36.7	38.4	38.6	38.7	39.2	39.8	40.8	41.8
2 5000	24.4	28.3	30.7	32.2	36.8	37.2	38.4	39.4	39.8	41.8	42.0	42.2	42.6	43.3	44.3	45.3
2 4500	29.1	33.2	36.3	38.1	43.4	43.8	45.1	46.0	46.5	48.6	48.8	49.0	49.4	50.1	51.1	52.1
2 4000	32.4	37.2	40.6	42.5	48.5	48.9	50.3	51.4	51.9	54.0	54.2	54.4	54.9	55.6	56.6	57.6
2 3500	34.8	40.2	44.0	46.1	52.8	53.2	54.7	55.9	56.4	58.5	58.7	58.9	59.4	60.1	61.1	62.1
2 3000	38.9	45.3	49.6	52.1	59.3	59.8	61.4	62.8	63.5	65.9	66.1	66.4	66.9	67.7	68.8	69.8
2 2500	40.8	47.7	52.3	55.0	62.6	63.0	64.7	66.2	66.9	69.3	69.6	69.8	70.3	71.1	72.2	73.2
2 2000	42.6	50.1	54.9	58.0	66.1	66.6	68.3	69.9	70.6	73.1	73.3	73.6	74.1	74.9	76.0	77.1
2 1800	43.3	51.8	55.7	58.9	67.2	67.7	69.4	71.0	71.7	74.3	74.5	74.8	75.3	76.1	77.2	78.2
2 1600	45.3	53.3	58.5	62.2	71.4	71.9	73.9	75.5	76.3	79.0	79.3	79.6	80.1	81.0	82.0	83.1
2 1400	46.0	54.3	59.6	63.4	73.6	74.2	76.3	78.1	78.9	81.7	82.0	82.3	82.8	83.7	84.7	85.8
2 1200	46.5	54.9	60.4	64.4	75.5	76.1	78.6	80.4	81.3	84.5	84.7	85.0	85.5	86.4	87.4	88.5
2 1000	46.8	55.1	60.6	64.7	76.0	76.7	79.2	81.3	82.2	85.5	85.8	86.1	86.6	87.4	88.5	89.5
2 900	46.8	55.3	60.9	65.0	76.7	77.4	80.0	82.1	83.1	86.5	86.8	87.1	87.6	88.5	89.5	90.6
2 800	46.8	55.5	61.0	65.2	77.1	77.8	80.6	82.8	83.8	87.4	87.7	88.0	88.5	89.3	90.4	91.4
2 700	46.8	55.5	61.0	65.2	77.5	78.1	81.1	83.6	84.7	88.7	89.0	89.3	89.8	90.7	91.7	92.8
2 600	46.8	55.5	61.0	65.2	77.5	78.3	81.3	83.9	85.0	89.4	89.7	90.0	90.5	91.4	92.5	93.6
2 500	46.8	55.5	61.0	65.2	77.5	78.3	81.4	84.2	85.4	90.2	90.6	91.0	91.6	92.5	93.6	94.8
2 400	46.8	55.5	61.0	65.2	77.5	78.3	81.5	84.3	85.7	90.8	91.3	91.9	92.5	93.6	94.7	96.2
2 300	46.8	55.5	61.0	65.2	77.5	78.3	81.5	84.4	85.8	91.1	91.7	92.3	93.0	94.2	95.7	98.0
2 200	46.8	55.5	61.0	65.2	77.5	78.3	81.6	84.4	85.8	91.2	91.7	92.4	93.1	94.3	96.2	99.8
2 100	46.8	55.5	61.0	65.2	77.5	78.3	81.6	84.4	85.8	91.2	91.7	92.4	93.1	94.4	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS 6667

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1.140 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	16.7	18.4	20.0	21.0	22.8	23.3	23.6	23.7	24.2	25.1	25.1	25.9	25.9	26.6	26.7	27.7
≥ 20000	16.6	19.0	20.7	22.1	23.9	24.4	24.7	24.8	25.3	26.4	26.4	27.3	27.4	28.2	28.3	30.0
≥ 18000	16.7	19.1	20.8	22.2	24.1	24.6	24.8	24.9	25.4	26.6	26.6	27.4	27.5	28.3	28.4	30.1
≥ 16000	16.7	19.1	20.8	22.2	24.1	24.6	24.8	24.9	25.4	26.6	26.6	27.4	27.5	28.3	28.4	30.1
≥ 14000	17.1	19.4	21.1	22.5	24.3	24.8	25.1	25.2	25.7	26.8	26.8	27.7	27.8	28.5	28.7	30.4
≥ 12000	17.1	19.5	21.2	22.6	24.4	24.9	25.2	25.3	25.8	26.9	26.9	27.8	27.9	28.7	28.8	30.5
≥ 10000	17.4	19.7	21.5	22.8	24.6	25.3	25.6	25.7	26.2	27.3	27.3	28.2	28.3	29.0	29.2	30.9
≥ 9000	17.5	19.9	21.6	23.0	25.1	25.6	25.8	25.9	26.4	27.5	27.5	28.4	28.5	29.3	29.4	31.1
≥ 8000	19.4	22.0	23.7	25.1	27.4	27.9	28.4	28.5	29.0	30.1	30.1	31.0	31.1	31.9	32.0	33.7
≥ 7000	19.5	22.1	24.1	25.4	27.9	28.4	28.9	29.0	29.5	30.6	30.6	31.5	31.6	32.4	32.5	34.2
≥ 6000	20.7	23.4	25.4	26.8	29.3	29.8	30.3	30.4	30.9	32.0	32.0	32.9	33.0	33.7	33.9	35.6
≥ 5000	22.2	25.2	27.3	28.8	31.5	32.0	32.5	32.9	33.4	34.6	34.6	35.5	35.6	36.4	36.5	38.2
≥ 4500	25.8	29.0	31.1	32.6	35.4	35.9	36.4	36.7	37.2	38.5	38.5	39.3	39.5	40.2	40.3	42.1
≥ 4000	29.9	34.0	36.4	37.8	41.1	41.6	42.2	42.6	43.1	44.4	44.4	45.3	45.4	46.2	46.3	48.0
≥ 3500	33.5	37.6	40.0	41.4	45.0	45.5	46.5	47.0	47.5	48.9	48.9	49.8	49.9	50.6	50.7	52.5
≥ 3000	38.0	42.9	45.5	47.0	51.7	52.2	53.2	53.7	54.2	55.6	55.6	56.5	56.6	57.3	57.4	59.2
≥ 2500	40.4	45.7	48.4	50.0	54.7	55.2	56.5	56.9	57.4	58.8	58.8	59.7	59.8	60.5	60.7	62.4
≥ 2000	44.8	50.7	54.0	55.8	61.0	61.5	63.0	63.5	64.0	65.4	65.4	66.3	66.4	67.1	67.2	69.0
≥ 1800	45.4	51.5	54.8	56.8	62.3	62.8	64.5	65.0	65.5	66.9	66.9	67.7	67.9	68.6	68.9	70.6
≥ 1500	47.9	54.2	57.9	60.2	66.7	67.2	69.6	70.6	71.1	72.6	72.6	73.6	73.7	74.4	74.7	76.4
≥ 1200	48.6	55.0	59.1	61.8	69.5	70.1	72.5	73.4	73.9	75.4	75.4	76.4	76.6	77.3	77.5	79.3
≥ 1000	49.9	56.3	61.4	64.4	73.2	73.8	76.3	77.4	78.0	79.5	79.5	80.5	80.6	81.4	81.6	83.4
≥ 900	50.6	57.3	62.4	65.5	74.3	74.9	77.4	78.5	79.2	80.6	80.6	81.4	81.8	82.5	82.9	84.6
≥ 800	50.6	57.3	62.9	66.0	75.3	75.9	78.8	79.9	80.5	82.1	82.1	83.1	83.3	84.0	84.6	86.4
≥ 700	50.6	57.4	63.0	66.1	75.8	76.4	79.7	80.9	81.5	83.1	83.3	84.2	84.4	85.1	85.7	87.5
≥ 600	50.6	57.4	63.0	66.1	75.8	76.8	80.0	81.8	82.6	84.2	84.7	85.7	85.9	86.6	87.2	89.0
≥ 500	50.6	57.4	63.0	66.1	75.9	77.0	80.6	83.4	84.2	86.4	86.8	87.8	88.0	88.7	89.3	91.1
≥ 400	50.6	57.4	63.0	66.1	75.9	77.0	81.4	85.5	86.7	89.0	89.5	90.4	90.6	91.3	91.9	93.7
≥ 300	50.9	57.7	63.3	66.4	76.2	77.3	81.8	86.1	87.6	90.6	91.4	92.4	92.7	93.7	94.7	96.4
≥ 200	50.9	57.7	63.3	66.4	76.2	77.3	81.8	86.5	88.1	91.3	92.3	93.4	93.9	95.3	96.5	98.6
≥ 100	50.9	57.7	63.3	66.4	76.2	77.3	81.8	86.5	88.1	91.3	92.3	93.4	93.9	95.5	96.9	99.9
≥ 0	50.9	57.7	63.3	66.4	76.2	77.3	81.8	86.5	88.1	91.3	92.3	93.4	93.9	95.7	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS

806

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500

VISIBILITY		CEILING															
FEET		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO FLYING		13.4	16.4	17.1	17.4	18.4	18.5	19.8	19.9	20.4	21.5	21.5	21.6	21.8	21.9	22.5	22.7
1-2000		14.7	17.8	19.1	19.4	20.4	20.5	21.8	21.9	22.4	23.9	23.9	24.0	24.1	24.2	25.0	26.2
2-3000		14.7	17.8	19.1	19.4	20.4	20.5	21.8	21.9	22.4	23.9	23.9	24.0	24.1	24.2	25.0	26.2
3-4000		14.7	17.8	19.1	19.4	20.4	20.5	21.8	21.9	22.4	23.9	23.9	24.0	24.1	24.2	25.0	26.2
4-5000		14.8	17.9	19.2	19.5	20.5	20.6	21.9	22.0	22.5	24.0	24.0	24.1	24.2	24.4	25.1	26.3
5-6000		15.0	18.2	19.4	19.8	20.8	20.9	22.1	22.2	22.7	24.2	24.2	24.4	24.5	24.6	25.3	26.6
6-7000		15.1	18.2	19.4	19.8	20.8	20.9	22.1	22.2	22.7	24.2	24.2	24.4	24.5	24.6	25.3	26.6
7-8000		15.1	18.3	19.5	19.9	20.9	21.0	22.2	22.4	22.9	24.4	24.4	24.5	24.6	24.7	25.5	26.7
8-9000		17.1	20.5	21.8	22.1	23.2	23.4	24.6	24.7	25.2	26.7	26.7	26.8	26.9	27.1	27.8	29.7
9-10000		17.2	20.8	22.0	22.4	23.6	23.7	25.0	25.1	25.8	27.3	27.3	27.4	27.6	27.7	28.4	29.7
10-11000		17.9	21.8	23.1	23.5	24.7	24.8	26.1	26.2	26.9	28.4	28.4	28.6	28.7	28.8	29.5	30.8
11-12000		18.8	22.9	24.5	25.5	26.7	26.8	28.1	28.2	28.9	30.8	30.8	30.9	31.0	31.1	31.9	33.1
12-13000		21.9	26.6	28.2	29.2	30.4	30.8	32.1	32.3	33.0	34.9	34.9	35.0	35.1	35.2	36.0	37.2
13-14000		26.1	31.1	33.0	34.1	35.7	36.1	37.6	37.7	38.4	40.3	40.3	40.4	40.5	40.6	41.5	42.8
14-15000		28.7	34.6	36.5	37.6	39.6	39.9	41.8	41.9	42.6	44.5	44.5	44.6	44.7	45.0	45.7	47.0
15-16000		31.9	38.3	40.4	41.8	44.5	44.9	47.0	47.1	48.0	49.8	49.8	49.9	50.1	50.3	51.1	52.3
16-17000		33.4	40.5	42.6	44.1	47.3	47.7	49.8	49.9	50.9	52.8	52.8	52.9	53.1	53.3	54.0	55.3
17-18000		38.3	45.4	48.1	49.8	53.9	54.4	57.1	57.4	58.3	60.2	60.2	60.3	60.4	60.7	61.4	62.7
18-19000		39.6	46.6	49.3	51.1	55.1	55.6	58.6	58.8	59.8	61.7	61.7	61.8	61.9	62.2	62.9	64.2
19-20000		41.8	49.2	52.4	54.5	59.6	60.1	63.7	63.9	65.0	67.1	67.1	67.4	67.5	67.9	68.7	70.0
20-21000		43.1	51.1	54.8	57.5	63.5	64.0	68.2	68.6	69.7	71.8	71.8	72.1	72.2	72.6	73.4	74.7
21-22000		43.5	52.3	57.5	60.7	67.7	68.2	72.8	72.9	74.2	76.5	76.5	76.8	77.0	77.4	78.2	79.5
22-23000		44.5	53.8	58.8	62.1	69.3	69.8	74.2	74.5	75.8	78.1	78.1	78.4	78.6	79.0	79.9	81.1
23-24000		44.6	53.8	59.2	62.5	70.1	70.6	75.3	75.6	76.9	79.9	79.9	80.1	80.3	80.7	82.0	83.2
24-25000		44.7	53.9	59.5	63.2	71.0	71.6	77.0	77.6	78.9	82.0	82.0	82.2	82.4	82.8	84.1	85.3
25-26000		45.0	54.1	59.7	63.4	71.3	72.1	77.9	79.1	80.8	84.2	84.4	84.7	84.9	85.3	86.7	87.9
26-27000		45.0	54.1	59.7	63.4	71.3	72.1	78.4	81.0	82.7	86.9	87.1	87.4	87.6	88.0	89.4	90.6
27-28000		45.0	54.1	59.7	63.4	71.3	72.1	79.0	82.8	84.7	89.0	89.4	89.6	89.9	90.2	91.6	92.8
28-29000		45.0	54.1	59.7	63.4	71.3	72.1	79.0	83.2	85.0	90.1	90.9	91.1	91.5	92.1	93.8	95.7
29-30000		45.0	54.1	59.7	63.4	71.3	72.1	79.0	83.3	85.3	90.9	91.6	91.8	92.6	93.2	95.6	97.7
30-31000		45.0	54.1	59.7	63.4	71.3	72.1	79.0	83.3	85.3	91.1	91.8	92.1	92.8	93.4	96.5	99.6
31-32000		45.0	54.1	59.7	63.4	71.3	72.1	79.0	83.3	85.3	91.2	92.0	92.2	93.0	93.8	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0630-0800

		VISIBILITY - STATUTE MILES																	
		20	15	10	5	2	1	0.5	0.25	0.15	0.1	0.075	0.05	0.025	0.015	0.01	0.0075	0.005	0.0025
1	2000	17.3	12.2	13.3	13.7	15.0	15.0	15.3	15.5	15.7	15.9	16.1	16.2	16.2	16.7	17.2	17.9		
2	1800	11.2	13.3	14.6	15.0	16.4	16.4	16.8	17.2	17.4	17.8	17.9	18.0	18.0	18.5	19.0	20.5		
3	1600	11.2	13.3	14.6	15.1	16.6	16.6	16.9	17.3	17.6	17.9	18.0	18.2	18.2	18.7	19.2	20.6		
4	1400	11.2	13.3	14.6	15.1	16.6	16.6	16.9	17.3	17.6	17.9	18.0	18.2	18.2	18.7	19.2	20.6		
5	1200	11.2	13.3	14.6	15.1	16.6	16.6	16.9	17.3	17.6	17.9	18.0	18.2	18.2	18.7	19.2	20.6		
6	1000	11.7	13.8	15.1	15.6	17.1	17.1	17.4	17.8	18.0	18.4	18.5	18.7	18.7	19.2	19.7	21.1		
7	900	12.1	14.2	15.5	15.9	17.4	17.4	17.8	18.2	18.4	18.8	18.9	19.0	19.0	19.5	20.0	21.5		
8	800	13.3	15.7	17.1	17.7	19.2	19.2	19.5	19.9	20.1	20.6	20.8	20.9	20.9	21.4	21.9	23.4		
9	700	13.8	15.8	17.3	18.0	19.5	19.5	19.9	20.4	20.6	21.1	21.3	21.4	21.4	21.9	22.4	23.9		
10	600	13.8	15.9	17.4	18.3	19.9	19.9	20.3	20.8	21.0	21.5	21.6	21.8	21.8	22.2	22.7	24.2		
11	500	15.0	17.6	19.7	20.8	22.5	22.5	23.0	23.5	23.7	24.5	24.6	24.8	24.8	25.3	25.8	27.3		
12	450	18.5	21.1	23.5	24.6	26.7	27.1	27.7	28.3	28.6	29.3	29.4	29.7	29.8	30.3	30.8	32.3		
13	400	22.9	25.7	28.1	29.2	31.6	32.0	32.8	33.6	34.0	34.7	35.0	35.2	35.5	36.0	36.5	37.9		
14	350	25.8	29.7	32.3	33.4	36.2	36.6	37.3	38.3	38.7	39.4	39.7	39.9	40.2	40.7	41.2	42.6		
15	300	28.1	32.4	35.7	36.8	40.3	40.8	41.9	42.9	43.3	44.0	44.3	44.6	44.9	45.5	46.0	47.5		
16	250	29.5	34.2	37.6	38.7	42.5	43.3	44.4	45.7	46.4	47.1	47.3	47.7	48.0	48.6	49.1	50.6		
17	200	32.0	37.7	41.2	42.4	46.8	47.7	49.1	50.4	51.1	51.8	52.0	52.4	52.8	53.4	53.9	55.4		
18	180	32.9	38.6	42.7	43.5	48.1	48.9	50.3	51.9	52.5	53.3	53.5	54.0	54.4	55.0	55.5	57.0		
19	160	35.9	42.5	46.8	48.8	54.4	55.5	57.5	59.2	59.8	60.9	61.2	61.8	62.2	62.8	63.3	64.8		
20	140	38.8	45.9	51.1	54.4	61.2	62.3	64.5	66.6	67.2	68.4	68.6	69.2	69.6	70.2	70.7	72.2		
21	120	39.4	47.2	53.2	56.7	65.4	66.6	69.0	71.4	72.1	73.2	73.4	74.0	74.4	75.0	75.5	77.0		
22	100	40.2	48.1	54.0	57.8	66.9	68.1	70.6	73.1	73.7	74.9	75.2	75.8	76.1	76.8	77.3	78.7		
23	80	40.4	48.6	54.5	58.8	68.7	70.0	72.8	75.4	76.1	77.8	78.1	79.0	79.5	80.2	80.7	82.2		
24	70	40.7	49.9	55.0	59.5	70.1	71.3	74.7	77.3	78.0	79.7	80.1	81.0	81.6	82.3	82.9	84.4		
25	60	40.8	49.2	55.3	59.7	71.0	72.2	75.8	78.7	80.0	81.8	82.2	83.1	83.9	84.7	85.4	86.9		
26	50	40.8	49.2	55.3	59.7	71.1	72.3	76.6	80.1	81.3	83.8	84.5	85.4	86.3	87.0	87.8	89.2		
27	40	40.8	49.2	55.3	59.7	71.1	72.3	76.9	81.5	82.9	85.5	86.3	87.3	88.3	89.0	89.7	91.6		
28	30	40.8	49.2	55.3	59.7	71.1	72.3	76.9	82.0	83.4	86.9	87.8	88.8	89.7	90.6	91.7	94.4		
29	20	40.8	49.2	55.3	59.7	71.1	72.3	76.9	82.1	83.7	87.5	89.4	90.7	91.8	92.8	94.4	98.8		
30	10	40.8	49.2	55.3	59.7	71.1	72.3	76.9	82.1	83.7	87.8	89.6	91.0	92.1	93.2	95.1	99.6		
31	5	40.8	49.2	55.3	59.7	71.1	72.3	76.9	82.1	83.7	87.8	89.6	91.0	92.3	93.4	95.4	100.0		

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

ELEVATION FEET		VISIBILITY STATUTE MILES															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
NO FOG		8.1	9.5	10.2	10.9	12.5	12.7	13.5	13.7	13.8	14.4	14.4	14.7	14.8	15.2	15.3	15.6
27000		10.9	12.5	13.3	14.0	15.8	16.0	16.8	17.3	17.5	18.3	18.4	18.6	18.8	19.1	19.4	19.9
26000		11.1	12.6	13.5	14.1	16.0	16.3	17.0	17.5	17.8	18.5	18.6	18.9	19.0	19.4	19.6	20.1
25000		11.7	12.6	13.5	14.2	16.4	16.7	17.4	17.9	18.1	18.9	19.0	19.3	19.4	19.8	20.0	20.5
24000		11.2	12.8	13.7	14.4	16.7	16.9	17.8	18.3	18.5	19.3	19.4	19.6	19.8	20.1	20.4	20.9
23000		12.2	13.8	14.7	15.4	17.7	17.9	18.8	19.3	19.5	20.2	20.4	20.6	20.7	21.1	21.4	21.9
22000		13.3	14.8	15.8	16.5	18.9	19.1	20.1	20.6	20.9	21.7	21.9	22.1	22.2	22.6	22.8	23.3
21000		13.5	15.3	16.3	17.0	19.4	19.6	20.6	21.1	21.4	22.2	22.3	22.6	22.7	23.1	23.3	23.8
20000		15.6	17.8	18.8	19.5	22.2	22.5	23.5	24.2	24.4	25.3	25.4	25.7	25.8	26.2	26.4	26.9
19000		16.7	19.3	19.3	20.0	23.1	23.3	24.3	25.1	25.3	26.2	26.3	26.5	26.7	27.0	27.3	27.8
18000		16.2	18.4	19.4	20.1	23.5	23.7	24.7	25.4	25.7	26.5	26.7	26.9	27.0	27.4	27.7	28.1
17000		18.1	20.9	21.9	22.6	26.3	26.5	27.5	28.3	28.5	29.4	29.5	29.8	29.9	30.2	30.5	31.7
16000		20.2	23.2	24.3	25.3	29.9	30.1	31.1	32.1	32.5	33.3	33.6	33.8	34.0	34.3	34.7	35.2
15000		22.6	26.7	27.4	28.4	33.1	33.5	34.6	35.8	36.2	37.2	37.4	37.7	37.8	38.1	38.5	39.0
14000		25.9	29.8	31.5	32.8	37.8	38.3	39.6	40.9	41.4	42.5	42.7	43.0	43.1	43.6	44.0	44.4
13000		28.8	32.6	34.4	35.9	42.0	42.7	44.3	46.0	46.8	48.0	48.3	49.5	49.6	49.1	49.5	50.1
12000		29.9	34.6	36.7	38.3	44.3	45.2	46.9	48.6	49.6	51.0	51.2	51.5	51.6	52.1	52.5	53.1
11000		32.2	37.7	40.2	42.2	49.3	50.1	52.6	54.6	55.6	57.0	57.3	57.5	57.7	58.1	58.5	59.1
10000		33.5	39.0	41.6	43.7	50.9	51.7	54.2	56.2	57.3	58.8	59.0	59.3	59.4	59.9	60.2	60.9
9000		36.9	43.8	47.5	50.2	60.0	61.0	64.2	66.9	68.1	70.0	70.2	70.5	70.6	71.1	71.5	72.1
8000		38.0	45.4	50.2	53.5	64.8	65.9	69.4	72.1	73.3	75.3	75.6	75.8	75.9	76.4	76.8	77.4
7000		38.9	46.9	52.3	55.8	69.6	70.9	74.9	77.9	79.3	81.2	81.6	81.9	82.1	82.7	83.2	83.8
6000		39.1	47.4	52.8	56.5	70.5	71.7	75.9	78.9	80.2	82.6	83.0	83.2	83.5	84.1	84.6	85.2
5000		39.4	47.9	53.5	57.3	71.7	73.0	77.4	80.4	82.2	84.9	85.3	85.6	85.8	86.4	87.0	87.7
4000		39.8	48.4	54.1	57.9	72.6	74.0	78.8	81.9	84.0	86.7	87.0	87.3	87.8	88.4	89.0	89.6
3000		39.8	48.4	54.1	57.9	72.7	74.1	79.3	82.3	84.6	87.4	87.9	88.1	88.6	89.3	90.0	90.6
2000		39.8	48.4	54.1	57.9	73.2	74.6	80.1	83.7	86.2	89.6	90.2	90.5	91.0	91.6	92.5	93.1
1000		39.8	48.4	54.0	57.9	73.3	74.7	80.2	84.2	87.0	90.9	91.5	91.7	92.2	92.8	93.7	94.3
500		39.8	48.4	54.0	57.9	73.3	74.7	80.2	84.3	87.4	91.7	92.3	92.7	93.5	94.2	95.4	96.5
200		39.8	48.4	54.0	57.9	73.3	74.7	80.2	84.3	87.8	92.2	92.8	93.8	94.6	95.3	96.7	99.0
100		39.8	48.4	54.0	57.9	73.3	74.7	80.2	84.3	87.8	92.2	92.8	93.8	94.7	95.4	97.0	99.8
0		39.8	48.4	54.0	57.9	73.3	74.7	80.2	84.3	97.8	92.2	92.8	93.8	94.7	95.4	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 810

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 140 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET		VISIBILITY STATUTE MILES															
		20	26	31	34	37	40	45	50	55	60	65	70	75	80	85	90
1	1000	13.6	14.8	15.7	17.0	19.1	19.1	19.1	19.1	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2	900	16.8	18.1	19.5	21.1	23.6	23.6	23.6	23.6	23.7	23.8	23.8	23.8	23.8	23.6	23.8	23.8
3	800	17.3	18.6	20.0	21.7	24.2	24.2	24.2	24.2	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4
4	700	17.4	18.8	20.1	22.0	24.4	24.4	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7
5	600	17.4	18.9	20.2	22.1	24.6	24.6	24.6	24.6	24.7	24.8	24.8	24.8	24.8	24.8	24.8	24.8
6	500	17.8	19.4	21.7	22.6	25.1	25.1	25.1	25.1	25.2	25.3	25.3	25.3	25.3	25.3	25.3	25.3
7	400	18.9	20.9	22.2	24.1	26.7	26.7	26.7	26.7	26.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0
8	300	19.3	21.4	22.7	24.6	27.2	27.2	27.2	27.2	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.5
9	200	21.2	23.6	25.2	27.2	29.8	29.8	29.8	29.8	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1
10	150	21.7	24.3	26.0	28.0	31.0	31.0	31.1	31.1	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5
11	100	22.6	25.2	26.9	28.9	31.9	31.9	32.0	32.0	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3
12	50	24.1	26.9	28.8	30.9	34.0	34.0	34.2	34.2	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6
13	45	26.2	29.4	31.4	33.5	37.2	37.2	37.5	37.8	38.0	38.1	38.1	38.1	38.1	38.3	38.4	38.4
14	40	29.3	33.0	34.9	37.0	40.9	40.9	41.2	41.5	41.7	42.1	42.1	42.1	42.1	42.2	42.3	42.3
15	35	33.2	37.7	39.8	41.9	46.0	46.2	46.5	46.8	47.0	47.4	47.4	47.5	47.5	47.7	47.8	47.8
16	30	40.5	45.2	47.8	50.2	56.2	56.5	57.2	57.7	57.9	58.4	58.4	58.5	58.5	58.6	58.8	58.8
17	25	42.1	47.4	50.0	52.8	59.8	60.1	61.0	61.5	62.0	62.5	62.5	62.6	62.6	62.7	62.8	62.8
18	20	45.3	51.4	54.1	57.0	64.4	64.8	65.8	66.4	67.3	67.8	67.8	67.9	67.9	68.0	68.1	68.1
19	18	46.5	52.6	55.6	58.5	66.2	66.5	67.7	68.3	69.1	69.6	69.6	69.8	69.8	69.9	70.0	70.0
20	15	49.5	56.4	60.5	63.8	73.1	73.6	74.8	75.6	76.4	77.2	77.2	77.3	77.3	77.4	77.5	77.5
21	12	50.6	58.0	62.5	66.4	77.0	77.8	79.4	80.1	81.0	82.1	82.1	82.2	82.2	82.3	82.5	82.5
22	10	51.6	59.4	64.7	69.3	80.7	81.6	83.6	84.4	85.4	86.5	86.5	86.7	86.7	86.8	86.9	86.9
23	9	51.7	59.6	64.9	69.6	81.9	82.7	84.8	85.7	86.7	87.8	87.8	87.9	87.9	88.0	88.1	88.1
24	8	52.2	60.1	65.4	70.4	83.2	84.1	86.3	87.5	88.9	90.5	90.6	90.7	90.7	90.9	91.0	91.0
25	7	52.3	60.2	65.6	70.5	83.7	84.7	87.9	89.4	90.7	92.7	92.8	93.0	93.0	93.2	93.3	93.3
26	6	52.3	60.2	65.7	70.6	84.3	85.4	89.1	90.7	92.1	94.2	94.3	94.4	94.4	94.7	94.8	94.8
27	5	52.3	60.2	65.7	71.0	84.8	86.0	89.8	92.2	93.6	95.8	95.9	96.0	96.0	96.3	96.4	96.4
28	4	52.3	60.2	65.7	71.1	85.2	86.4	90.1	92.7	94.2	96.8	96.9	97.0	97.0	97.3	97.4	97.4
29	3	52.3	60.2	65.7	71.1	85.2	86.4	90.2	92.8	94.3	97.4	97.7	97.9	97.9	98.1	98.3	98.6
30	2	52.3	60.2	65.7	71.1	85.2	86.4	90.2	92.8	94.3	97.5	97.8	98.4	98.5	98.8	98.9	99.8
31	1	52.3	60.2	65.7	71.1	85.2	86.4	90.2	92.8	94.3	97.5	97.8	98.5	98.8	99.0	99.1	100.0
32	0	52.3	60.2	65.7	71.1	85.2	86.4	90.2	92.8	94.3	97.5	97.8	98.5	98.8	99.0	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 810

CEILING VERSUS VISIBILITY

73-81

NOV

1500-1700

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 141 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

1800-2000

		VISIBILITY (STATUTE MILES)															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO	10000	19.1	21.6	23.3	24.2	25.8	26.0	26.5	26.8	26.9	27.0	27.0	27.0	27.2	27.5	27.8	28.3
2	20000	21.9	24.6	26.7	27.8	29.5	29.8	30.2	30.5	30.6	30.9	31.0	31.0	31.1	31.5	31.7	32.2
3	30000	22.3	25.1	27.2	28.3	30.0	30.2	30.7	31.0	31.1	31.4	31.5	31.5	31.6	32.0	32.2	32.7
4	40000	22.3	25.1	27.2	28.3	30.0	30.2	30.7	31.0	31.1	31.4	31.5	31.5	31.6	32.0	32.2	32.7
5	50000	22.7	25.6	27.7	28.8	30.5	30.7	31.2	31.5	31.6	31.9	32.0	32.0	32.1	32.5	32.7	33.2
6	60000	23.0	25.8	27.9	29.0	30.7	31.0	31.5	31.7	31.9	32.1	32.2	32.2	32.3	32.7	33.0	33.5
7	70000	24.7	27.7	29.8	30.9	32.7	33.0	33.5	33.7	33.8	34.1	34.2	34.2	34.3	34.7	34.9	35.4
8	80000	25.2	28.4	30.5	31.6	33.6	33.8	34.3	34.6	34.7	34.9	35.1	35.1	35.2	35.6	35.8	36.3
9	90000	26.5	30.0	32.3	33.5	35.7	35.9	36.4	36.7	36.8	37.0	37.2	37.2	37.3	37.7	37.9	38.4
10	100000	27.0	30.5	32.8	34.1	36.5	36.8	37.3	37.5	37.7	37.9	38.0	38.0	38.1	38.5	38.8	39.3
11	110000	27.7	30.5	32.8	34.1	36.5	36.8	37.3	37.5	37.7	37.9	38.0	38.0	38.1	38.5	38.8	39.3
12	120000	28.9	32.3	34.7	36.2	38.9	39.1	39.6	39.9	40.0	40.2	40.4	40.4	40.5	40.9	41.1	41.6
13	130000	33.6	37.5	40.1	41.7	44.7	44.9	45.6	45.8	45.9	46.2	46.3	46.3	46.4	46.8	47.0	47.5
14	140000	35.9	40.0	43.1	44.7	47.9	48.1	48.8	49.4	49.5	49.8	49.9	49.9	50.0	50.4	50.6	51.1
15	150000	39.3	44.1	47.3	49.5	53.2	53.5	54.2	54.8	54.9	55.2	55.3	55.3	55.4	55.8	56.0	56.5
16	160000	44.3	50.5	53.8	56.3	62.0	62.2	63.0	63.6	63.7	64.3	64.4	64.4	64.6	64.9	65.2	65.7
17	170000	48.4	55.2	58.6	61.6	67.3	67.5	68.3	68.9	69.0	69.6	69.6	69.8	69.9	70.2	70.5	71.0
18	180000	53.0	60.2	64.3	67.7	74.0	74.2	74.9	75.6	75.7	76.3	76.4	76.4	76.5	76.9	77.2	77.7
19	190000	53.6	61.0	65.1	68.4	74.7	74.9	75.7	76.3	76.4	77.0	77.2	77.2	77.3	77.7	77.9	78.4
20	200000	54.6	62.5	66.8	70.6	78.1	78.4	79.1	79.8	79.9	81.2	81.4	81.4	81.5	81.9	82.1	82.6
21	210000	54.9	63.1	67.4	71.5	79.9	80.1	81.0	81.6	81.7	83.1	83.2	83.2	83.3	83.7	84.0	84.4
22	220000	55.4	63.8	68.5	73.1	82.3	82.6	83.8	84.4	84.6	85.9	86.0	86.0	86.2	86.5	86.8	87.3
23	230000	55.4	63.8	68.5	73.2	82.5	83.0	84.2	84.8	84.7	86.3	86.4	86.4	86.5	86.9	87.2	87.7
24	240000	55.9	64.8	69.9	74.6	84.7	85.6	87.3	88.3	88.5	89.9	90.0	90.0	90.1	90.5	90.7	91.2
25	250000	55.9	64.8	69.9	74.6	84.9	85.8	88.3	89.9	90.1	91.6	91.7	91.7	91.9	92.2	92.5	93.0
26	260000	55.9	64.8	69.9	74.6	85.1	85.9	88.4	90.2	91.2	94.4	94.6	94.6	94.7	95.1	95.3	95.8
27	270000	56.0	64.9	70.0	74.7	85.2	86.0	88.9	91.0	92.1	95.4	95.6	95.6	95.7	96.0	96.3	96.8
28	280000	56.0	64.9	70.0	74.7	85.2	86.0	89.0	91.4	92.5	96.2	96.3	96.3	96.4	96.8	97.0	97.5
29	290000	56.0	64.9	70.0	74.7	85.2	86.0	89.0	91.4	92.8	97.3	97.4	97.8	97.9	98.3	98.5	99.4
30	300000	56.0	64.9	70.0	74.7	85.2	86.0	89.0	91.4	93.0	97.5	97.7	98.0	98.1	98.6	98.9	99.9
31	310000	56.0	64.9	70.0	74.7	85.2	86.0	89.0	91.4	93.0	97.5	97.7	98.0	98.1	98.6	98.9	99.9
32	320000	56.0	64.9	70.0	74.7	85.2	86.0	89.0	91.4	93.0	97.5	97.7	98.0	98.1	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-14-77 RAMSTEIN AB DL

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO CEILING	19.9	21.1	21.9	22.3	24.3	24.4	24.9	25.7	25.7	25.9	25.9	26.0	26.4	26.8	27.0	27.9												
≥ 2000	37.4	22.6	23.5	24.3	26.5	26.7	27.2	27.9	28.0	28.3	28.3	28.4	28.8	29.1	29.4	30.2												
≥ 1800	20.5	22.7	23.6	24.4	26.7	26.8	27.3	28.0	28.1	28.4	28.4	28.5	28.9	29.4	29.6	30.5												
≥ 1600	20.9	23.1	24.0	24.8	27.0	27.2	27.7	28.4	28.5	28.8	28.8	28.9	29.3	29.8	30.0	30.9												
≥ 1400	21.1	23.3	24.2	25.1	27.3	27.4	27.9	28.6	28.8	29.0	29.0	29.1	29.5	30.1	30.4	31.2												
≥ 1200	22.3	24.6	25.4	26.4	28.8	28.9	29.5	30.2	30.4	30.6	30.6	30.7	31.1	31.7	32.0	32.8												
≥ 1000	22.6	24.8	25.7	26.7	29.0	29.1	29.8	30.5	30.6	30.9	30.9	31.0	31.4	32.0	32.2	33.1												
≥ 800	24.1	26.3	27.2	28.1	30.9	31.0	31.6	32.3	32.5	32.7	32.7	32.8	33.2	33.8	34.1	34.9												
≥ 600	24.4	26.9	27.8	28.8	31.5	31.6	32.2	33.0	33.1	33.3	33.3	33.5	33.8	34.4	34.7	35.6												
≥ 400	24.3	27.3	28.1	29.1	31.9	32.0	32.6	33.3	33.5	33.7	33.7	33.8	34.2	34.8	35.1	35.9												
≥ 200	26.3	29.4	30.2	31.7	34.7	34.8	35.4	36.5	36.7	36.9	36.9	37.0	37.4	38.0	38.3	39.1												
≥ 100	37.2	34.1	35.4	36.9	40.5	40.6	41.2	42.3	42.5	43.0	43.0	43.1	43.5	44.1	44.3	45.2												
≥ 800	33.5	38.3	39.6	41.2	45.2	45.3	45.9	47.3	47.4	48.1	48.1	48.3	48.6	49.3	49.5	50.4												
≥ 600	36.3	40.6	42.2	43.8	47.9	48.0	49.0	50.4	50.5	51.2	51.2	51.4	51.7	52.3	52.6	53.5												
≥ 400	39.5	44.3	45.9	48.0	54.0	54.1	55.4	57.0	57.2	58.0	58.0	58.1	58.5	59.1	59.4	60.2												
≥ 200	44.7	48.9	51.0	53.2	59.1	59.3	60.6	62.2	62.3	63.2	63.2	63.3	63.7	64.3	64.6	65.4												
≥ 100	47.5	53.2	56.2	58.6	65.2	65.4	66.8	68.4	68.5	69.4	69.4	69.5	69.9	70.5	70.7	71.6												
≥ 800	48.5	54.8	57.8	60.2	66.8	67.0	68.4	70.0	70.1	71.0	71.0	71.1	71.5	72.1	72.3	73.2												
≥ 600	50.6	57.4	61.0	63.6	71.4	71.6	73.5	75.1	75.2	76.5	76.5	76.7	77.0	77.7	77.9	78.8												
≥ 400	51.4	58.3	62.3	65.2	73.3	73.6	75.4	77.0	77.2	78.5	78.5	78.6	79.0	79.6	79.9	80.7												
≥ 200	51.7	58.8	63.3	66.5	75.9	76.2	78.4	80.0	80.1	81.5	81.5	81.6	82.0	82.6	82.8	83.7												
≥ 800	52.1	59.4	64.0	67.3	76.7	76.9	79.3	80.9	81.0	82.3	82.3	82.5	82.8	83.5	83.7	84.6												
≥ 600	52.5	59.9	64.8	68.4	78.8	79.1	81.6	83.2	83.3	84.9	84.9	85.1	85.4	86.0	86.3	87.2												
≥ 400	52.5	60.1	65.1	68.6	79.4	79.8	83.0	85.4	85.6	87.4	87.5	87.7	88.0	88.6	88.9	89.8												
≥ 200	52.5	60.1	65.1	68.6	79.5	80.0	83.2	86.4	86.9	89.1	89.5	89.6	90.0	90.6	90.9	91.7												
≥ 800	52.5	60.1	65.1	68.6	79.5	80.0	83.3	86.9	87.4	89.9	90.2	90.5	91.0	91.6	91.9	92.7												
≥ 600	52.5	60.1	65.1	68.6	79.5	80.0	84.0	88.4	89.0	91.7	92.5	92.7	93.2	93.8	94.1	94.9												
≥ 400	52.5	60.1	65.1	68.6	79.5	80.0	84.2	88.8	89.8	93.6	94.3	94.6	95.1	95.7	96.2	97.2												
≥ 200	52.5	60.1	65.1	68.6	79.5	80.0	84.2	89.0	90.4	94.6	95.7	96.2	96.7	97.5	98.0	99.0												
≥ 800	52.5	60.1	65.1	68.6	79.5	80.0	84.2	89.0	90.4	94.6	95.7	96.2	96.7	97.7	98.1	99.8												
≥ 600	52.5	60.1	65.1	68.6	79.5	80.0	84.2	89.0	90.4	94.6	95.7	96.2	96.7	97.7	98.1	100.0												

TOTAL NUMBER OF OBSERVATIONS 810

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

CEILING VERSUS VISIBILITY

73-61

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

TOTAL NUMBER OF OBSERVATIONS 6474

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-142 RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
≥10000	11.2	13.1	14.8	15.9	19.1	19.1	19.5	19.8	20.3	20.4	20.4	20.4	20.4	20.4	20.4	20.4	21.1	21.5										
≥9000	11.9	14.2	16.1	17.6	20.8	20.8	21.4	21.9	22.3	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.2	23.5										
≥8000	12.1	14.3	16.2	17.7	20.9	20.9	21.5	22.0	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.3	23.7										
≥7000	12.1	14.3	16.2	17.7	20.9	20.9	21.5	22.0	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.3	23.7										
≥6000	12.1	14.3	16.2	17.7	20.9	20.9	21.5	22.0	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.3	23.7										
≥5000	12.2	14.5	16.4	18.2	21.4	21.4	22.0	22.5	22.9	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.8	24.1										
≥4000	12.4	15.2	17.1	19.0	22.3	22.3	22.9	23.4	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.1	24.4	25.1	25.4									
≥3000	13.0	15.3	17.2	19.1	22.5	22.5	23.1	23.5	24.0	24.1	24.1	24.1	24.1	24.1	24.3	24.5	25.2	25.6										
≥2000	13.9	16.2	18.2	20.1	23.7	23.7	24.3	24.7	25.2	25.3	25.3	25.3	25.3	25.3	25.4	25.7	26.4	26.8										
≥1500	13.9	16.2	18.2	20.1	23.7	23.7	24.6	25.1	25.6	25.8	25.8	25.8	25.8	25.8	25.9	26.3	27.0	27.4										
≥1000	14.2	16.6	18.5	20.4	24.0	24.0	25.0	25.4	25.9	26.2	26.2	26.2	26.2	26.3	26.6	27.4	27.7											
≥900	15.9	18.5	20.8	22.7	26.4	26.4	27.4	28.0	28.4	28.7	28.7	28.7	28.7	28.8	29.2	29.9	30.2											
≥800	18.3	21.1	23.5	25.8	30.2	30.2	31.2	31.8	32.3	32.5	32.5	32.5	32.5	32.6	33.0	33.7	34.1											
≥700	21.4	24.6	27.0	29.5	34.4	34.5	35.5	36.1	36.6	36.9	36.9	36.9	36.9	37.0	37.4	38.1	38.7											
≥600	23.7	27.1	29.5	32.0	37.0	37.2	38.1	38.7	39.2	39.5	39.5	39.5	39.5	39.7	40.3	41.0	41.6											
≥500	26.6	30.8	33.7	36.4	42.2	42.3	43.4	44.2	44.7	45.2	45.2	45.2	45.2	45.3	45.9	46.6	47.2											
≥400	29.2	33.5	36.4	39.2	45.3	45.4	46.5	47.3	47.8	48.3	48.3	48.3	48.3	48.4	49.0	49.7	50.3											
≥300	35.8	40.5	44.8	48.4	55.4	55.8	57.0	57.9	58.4	58.9	58.9	58.9	58.9	59.0	59.6	60.3	60.9											
≥200	36.8	41.5	45.8	49.5	57.0	57.3	58.5	59.5	60.0	60.6	60.6	60.6	60.6	60.7	61.3	62.0	62.6											
≥150	40.0	45.9	50.7	54.6	62.5	62.8	64.3	65.5	65.9	67.0	67.0	67.0	67.0	67.1	67.7	68.5	69.1											
≥100	41.7	47.9	52.8	57.0	65.2	65.6	67.4	68.7	69.2	70.3	70.3	70.3	70.3	70.4	71.0	71.7	72.3											
≥90	44.4	51.3	56.2	61.2	70.5	71.0	73.0	74.3	74.8	75.9	75.9	75.9	75.9	76.0	76.6	77.3	77.9											
≥80	44.9	51.9	56.8	62.1	72.5	73.0	75.0	76.5	77.2	78.3	78.3	78.3	78.3	78.4	79.0	79.7	80.3											
≥70	45.3	52.7	57.8	63.7	74.6	75.0	77.1	78.6	79.5	81.0	81.0	81.0	81.0	81.1	81.7	82.4	83.0											
≥60	45.3	52.9	58.3	64.4	76.1	76.6	78.9	80.9	82.4	84.0	84.0	84.0	84.0	84.1	84.7	85.4	86.0											
≥50	45.4	53.0	58.5	64.8	77.2	78.3	80.9	82.9	84.8	87.0	87.0	87.0	87.0	87.3	87.9	88.6	89.2											
≥40	45.5	53.2	58.7	65.1	77.9	79.0	82.1	84.5	86.6	90.0	90.0	90.0	90.0	90.3	90.9	91.6	92.2											
≥30	45.5	53.2	58.7	65.1	78.4	79.5	83.4	86.3	88.4	92.2	92.6	92.6	93.0	93.5	94.3	94.9												
≥20	45.5	53.2	58.7	65.1	78.4	79.5	83.4	86.3	88.5	93.2	93.5	93.8	94.1	94.7	95.5	96.1												
≥10	45.5	53.2	58.7	65.1	78.4	79.5	83.4	86.3	88.9	93.5	93.9	94.5	95.0	95.9	96.9	97.6												
≥0	45.5	53.2	58.7	65.1	78.4	79.5	83.4	86.3	88.9	93.8	94.1	95.0	95.7	97.5	98.6	100.0												

TOTAL NUMBER OF OBSERVATIONS 837

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 141 RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

3300-0500

ELEVATION FEET		VISIBILITY IN STATUTE MILES															
		210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1000	10.6	11.7	12.8	13.5	15.9	16.3	16.7	17.2	17.5	17.7	17.7	17.7	17.9	18.2	18.8	19.1
2	2000	10.9	12.0	13.2	13.9	16.9	17.2	17.8	18.3	18.5	18.8	18.9	18.9	19.1	19.4	20.0	20.3
3	3000	10.9	12.0	13.2	13.9	16.9	17.2	17.8	18.3	18.5	18.8	18.9	18.9	19.1	19.4	20.0	20.3
4	4000	11.7	12.1	13.3	14.0	17.0	17.3	17.9	18.4	18.7	18.9	19.0	19.0	19.3	19.5	20.1	20.5
5	5000	11.2	12.3	13.5	14.2	17.2	17.6	18.2	18.7	18.9	19.1	19.3	19.3	19.5	19.7	20.3	20.7
6	6000	11.5	12.7	13.9	14.6	17.7	18.1	18.7	19.1	19.4	19.7	19.9	19.9	20.2	20.5	21.1	21.4
7	7000	11.5	12.7	13.9	14.6	17.7	18.1	18.7	19.1	19.4	19.7	19.9	19.9	20.2	20.5	21.1	21.4
8	8000	12.3	13.8	15.4	16.6	19.7	20.1	20.7	21.2	21.4	21.8	21.9	21.9	22.2	22.5	23.1	23.4
9	9000	12.7	14.2	15.9	17.1	20.7	21.1	21.7	22.1	22.4	22.7	22.8	22.8	23.2	23.4	24.0	24.4
10	10000	13.7	14.6	16.3	17.5	21.1	21.4	22.0	22.5	22.7	23.1	23.2	23.2	23.6	23.8	24.4	24.8
11	11000	14.8	16.5	18.2	19.7	23.6	23.9	24.5	25.0	25.2	25.6	25.7	25.7	26.1	26.3	26.9	27.3
12	12000	18.3	20.1	21.9	23.6	27.8	28.1	28.7	29.4	29.8	30.1	30.3	30.3	30.6	30.9	31.5	31.8
13	13000	20.1	22.9	24.3	26.1	30.3	31.0	31.7	32.5	32.9	33.6	33.7	33.7	34.1	34.3	34.9	35.4
14	14000	24.2	26.7	29.6	30.7	34.9	35.6	36.4	37.2	37.6	38.3	38.4	38.4	38.8	39.0	39.6	40.1
15	15000	26.3	29.8	31.9	34.3	39.1	39.8	40.6	41.4	41.7	42.5	42.6	42.6	42.9	43.2	43.8	44.5
16	16000	29.2	32.8	35.4	38.2	43.5	44.3	45.5	46.4	46.8	47.6	47.7	47.7	48.1	48.3	48.9	49.6
17	17000	34.9	38.9	41.9	44.7	51.2	52.0	53.3	54.5	54.9	55.9	56.0	56.0	56.3	56.6	57.2	57.9
18	18000	35.4	39.7	42.7	45.6	52.2	53.0	54.4	55.6	56.0	56.9	57.1	57.1	57.4	57.7	58.3	59.0
19	19000	41.4	47.0	50.8	54.3	61.7	62.6	64.2	65.6	65.9	66.9	67.0	67.0	67.3	67.6	68.2	68.9
20	20000	42.6	48.7	52.8	56.5	64.1	65.0	67.1	68.4	69.0	70.0	70.1	70.1	70.5	70.7	71.3	72.0
21	21000	45.1	51.6	56.1	60.6	69.5	70.3	73.1	74.5	75.1	76.1	76.2	76.3	76.7	76.9	77.5	78.2
22	22000	45.6	52.2	57.1	61.8	71.7	72.5	75.6	77.0	77.6	78.6	78.7	78.8	79.2	79.4	80.0	80.7
23	23000	45.7	52.4	57.4	62.2	72.7	73.6	77.2	78.8	79.4	80.5	80.6	80.7	81.1	81.3	81.9	82.7
24	24000	45.8	53.0	58.4	63.3	74.9	75.7	79.5	81.6	82.4	83.5	83.6	83.7	84.1	84.3	84.9	85.6
25	25000	45.8	53.0	58.4	63.3	75.8	76.8	81.1	83.3	84.4	85.8	85.9	86.0	86.5	86.7	87.3	88.0
26	26000	45.8	53.0	58.4	63.3	76.8	78.0	82.8	85.4	87.0	88.9	89.0	89.1	89.6	89.8	90.4	91.1
27	27000	45.8	53.0	58.4	63.3	77.3	78.6	84.3	87.4	89.1	91.0	91.1	91.3	91.7	92.0	92.6	93.3
28	28000	45.8	53.0	58.4	63.3	77.3	78.6	84.3	87.7	89.7	92.5	92.6	93.2	93.7	93.9	94.5	95.2
29	29000	45.8	53.0	58.4	63.3	77.3	78.6	84.3	87.7	89.7	93.4	93.5	94.3	95.0	96.1	96.8	97.6
30	30000	45.8	53.0	58.4	63.3	77.3	78.6	84.3	87.7	89.7	93.7	93.9	94.6	96.2	97.5	98.3	99.8
31	31000	45.8	53.0	58.4	63.3	77.3	78.6	84.3	87.7	89.7	93.7	93.9	94.6	96.2	97.5	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 836

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS																
CEILING FEET	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
100	10.3	11.7	13.0	13.9	15.5	16.6	17.2	17.4	17.8	17.9	17.9	17.9	18.7	18.4	18.6	18.8
150	11.1	12.7	14.1	14.9	18.3	18.4	19.0	19.4	19.7	19.8	19.8	19.8	20.0	20.3	20.5	20.7
200	11.1	12.7	14.1	14.9	18.3	18.4	19.0	19.4	19.7	19.8	19.8	19.8	20.0	20.3	20.5	20.7
250	11.1	12.7	14.1	14.9	18.3	18.4	19.0	19.4	19.7	19.8	19.8	19.8	20.0	20.3	20.5	20.7
300	11.1	12.7	14.1	14.9	18.3	18.4	19.0	19.4	19.7	19.8	19.8	19.8	20.0	20.3	20.5	20.7
350	11.7	13.3	14.6	15.5	18.9	19.0	19.7	20.1	20.4	20.8	20.8	20.8	20.9	21.3	21.6	21.9
400	11.3	13.4	14.7	15.7	19.0	19.1	19.8	20.2	20.5	20.9	20.9	20.9	21.1	21.4	21.7	22.1
450	12.9	14.9	16.2	17.4	20.8	20.9	21.7	22.1	22.5	22.8	22.8	22.8	22.9	23.3	23.7	23.9
500	13.5	15.5	16.8	18.0	21.4	21.5	22.3	22.7	23.1	23.4	23.4	23.4	23.5	23.9	24.3	24.5
550	13.6	15.7	17.0	18.2	21.5	21.6	22.5	22.8	23.2	23.5	23.5	23.5	23.7	24.0	24.4	24.6
600	14.3	16.8	18.2	19.5	23.2	23.3	24.1	24.5	24.9	25.2	25.2	25.2	25.3	25.7	26.0	26.3
650	16.8	19.1	20.4	21.9	25.8	25.9	26.8	27.1	27.5	27.8	27.8	27.8	28.0	28.3	28.7	28.9
700	19.7	22.5	24.1	25.8	30.2	30.5	31.4	31.8	32.1	32.9	33.0	33.0	33.1	33.5	33.8	34.1
750	23.3	26.5	28.2	29.9	34.6	34.9	35.8	36.2	36.6	37.3	37.4	37.4	37.5	37.9	38.2	38.5
800	26.2	29.9	31.7	33.3	38.6	38.8	40.0	40.4	40.7	41.7	41.8	41.8	41.9	42.4	42.8	43.2
850	29.6	33.5	35.4	37.3	43.4	43.6	44.9	45.5	45.9	46.8	47.0	47.0	47.1	47.6	47.9	48.4
900	35.0	39.4	41.6	43.7	50.3	50.5	52.2	52.8	53.3	54.5	54.6	54.6	54.7	55.2	55.6	56.3
950	36.8	41.5	43.6	45.8	52.3	52.6	54.5	55.1	55.6	57.0	57.1	57.1	57.2	57.7	58.1	58.5
1000	42.4	49.0	51.4	54.2	62.4	62.6	64.9	65.5	65.9	67.5	67.6	67.6	67.7	68.2	68.6	69.1
1050	43.8	51.0	53.5	56.8	65.1	65.4	67.6	68.2	68.9	70.6	70.7	70.7	70.8	71.3	71.7	72.2
1100	46.7	55.0	57.9	61.5	70.7	71.0	73.5	74.1	74.8	76.6	76.7	76.7	76.8	77.3	77.7	78.1
1150	47.1	55.3	58.3	61.9	71.3	71.6	74.8	75.4	76.1	77.9	78.0	78.0	78.1	78.6	79.0	79.5
1200	47.0	55.3	58.4	62.2	72.3	72.9	76.6	77.2	78.0	80.0	80.2	80.2	80.3	80.8	81.1	81.6
1250	47.2	55.7	58.9	62.8	74.3	74.9	79.0	79.8	80.8	82.9	83.0	83.0	83.2	83.8	84.1	84.6
1300	47.3	55.8	59.0	63.1	75.5	76.2	81.2	81.1	83.5	86.3	86.4	86.4	86.7	87.3	87.7	88.2
1350	47.3	55.8	59.0	63.4	77.2	77.9	83.6	84.8	86.4	89.8	90.0	90.0	90.3	90.9	91.3	91.6
1400	47.3	55.8	59.0	63.4	77.5	78.3	84.2	85.8	87.5	91.2	91.3	91.3	91.6	92.2	92.6	93.1
1450	47.3	55.8	59.0	63.4	77.7	78.4	84.3	86.4	88.4	93.4	93.5	93.5	93.9	94.5	94.9	95.3
1500	47.3	55.8	59.0	63.4	77.7	78.4	84.3	86.4	89.0	94.7	95.1	95.2	95.7	96.3	96.9	97.5
1550	47.3	55.8	59.0	63.4	77.7	78.4	84.3	86.4	89.0	94.9	95.5	95.7	96.5	97.5	98.8	100.0
1600	47.3	55.8	59.0	63.4	77.7	78.4	84.3	86.4	89.0	94.9	95.5	95.7	96.5	97.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL
STATION NAME

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET		VISIBILITY STATUTE MILES															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1	10000	5.7	9.1	12.3	10.9	14.5	14.7	15.1	15.3	15.7	16.2	16.2	16.2	16.3	16.3	16.3	16.3
2	20000	8.1	10.4	11.8	12.7	17.1	17.4	17.9	18.1	18.6	19.1	19.1	19.1	19.2	19.3	19.3	19.3
1	18000	8.1	10.4	11.8	12.7	17.3	17.5	18.0	18.2	18.7	19.2	19.2	19.2	19.3	19.4	19.4	19.4
2	16000	8.1	10.4	11.8	12.7	17.3	17.5	18.0	18.2	18.7	19.2	19.2	19.2	19.3	19.4	19.4	19.4
1	14000	8.2	10.6	11.9	12.8	17.4	17.6	18.1	18.3	18.8	19.3	19.3	19.3	19.4	19.5	19.5	19.5
2	12000	8.2	10.6	11.9	12.8	17.5	17.7	18.3	18.6	19.1	19.5	19.5	19.5	19.7	19.8	19.8	19.8
1	10000	8.6	11.2	12.6	13.9	18.9	19.2	19.9	20.1	20.7	21.2	21.2	21.2	21.3	21.5	21.5	21.5
2	9000	9.1	11.6	13.1	14.4	19.5	19.8	20.5	20.7	21.3	21.8	21.8	21.8	21.9	22.1	22.1	22.1
1	8000	9.8	12.5	13.9	15.5	20.6	20.9	21.8	22.1	22.7	23.1	23.1	23.1	23.3	23.4	23.4	23.4
2	7000	10.3	12.9	14.5	16.1	21.5	21.8	22.8	23.0	23.6	24.1	24.1	24.1	24.2	24.3	24.3	24.3
1	6000	10.4	13.1	14.6	16.2	21.6	21.9	22.9	23.1	23.7	24.2	24.2	24.2	24.3	24.5	24.5	24.5
2	5000	12.4	15.2	16.9	18.7	24.5	24.9	25.9	26.1	26.7	27.2	27.2	27.2	27.3	27.5	27.5	27.5
1	4500	13.3	16.8	18.7	20.5	26.6	27.1	28.1	28.3	29.0	29.6	29.6	29.6	29.7	29.9	29.9	29.9
2	4000	16.8	20.4	23.3	25.2	31.7	32.1	33.2	33.5	34.4	35.1	35.1	35.1	35.3	35.4	35.4	35.4
1	3500	18.6	22.7	25.9	28.1	35.5	36.0	37.1	37.4	38.4	39.1	39.1	39.1	39.2	39.3	39.3	39.3
2	3000	23.9	27.9	31.9	34.2	42.0	42.4	43.6	44.0	45.1	46.0	46.0	46.0	46.2	46.4	46.4	46.4
1	2500	25.8	30.6	34.7	37.1	45.8	46.3	47.7	48.2	49.3	50.2	50.2	50.2	50.4	50.6	50.6	50.6
2	2000	30.6	36.0	40.4	42.9	52.4	52.9	54.7	55.3	56.5	57.7	57.8	57.8	57.9	58.3	58.3	58.3
1	1800	31.9	37.5	42.0	44.6	54.6	55.0	56.8	57.6	58.8	60.3	60.4	60.4	60.6	60.9	60.9	60.9
2	1500	33.7	41.6	46.9	50.0	61.0	61.5	63.7	64.5	65.7	67.4	67.5	67.5	67.6	68.0	68.0	68.0
1	1200	35.0	43.3	48.7	52.0	63.7	64.1	66.4	67.3	68.5	70.1	70.3	70.3	70.4	70.7	70.7	70.7
2	1000	36.2	44.7	50.4	54.1	69.4	70.0	72.7	73.7	74.9	76.9	77.0	77.0	77.1	77.5	77.5	77.5
1	900	36.3	45.1	50.7	54.6	70.4	71.3	73.7	74.9	76.1	78.1	78.2	78.2	78.3	78.7	78.7	78.7
2	800	36.6	45.9	51.8	55.8	72.1	72.7	75.8	77.1	78.4	80.3	80.5	80.5	80.7	81.1	81.1	81.1
1	700	36.6	46.0	51.9	56.1	73.4	74.0	77.3	79.0	80.3	82.9	83.0	83.0	83.2	83.6	83.6	83.6
2	600	36.6	46.0	51.9	56.1	74.0	75.2	79.1	81.3	83.7	86.8	86.9	86.9	87.3	87.6	87.6	87.6
1	500	36.6	46.0	51.9	56.1	74.8	76.3	80.7	84.3	86.9	91.0	91.5	91.5	92.0	92.3	92.3	92.3
2	400	36.6	46.0	51.9	56.1	75.1	76.5	81.1	84.9	87.9	92.7	93.2	93.2	93.6	94.1	94.1	94.1
1	300	36.6	46.0	51.9	56.1	75.1	76.5	81.1	85.4	88.6	94.1	95.1	95.2	95.9	96.4	96.4	96.4
2	200	36.6	46.0	51.9	56.1	75.1	76.5	81.1	85.4	88.6	94.4	95.3	95.4	96.6	97.8	98.3	98.3
1	100	36.6	46.0	51.9	56.1	75.1	76.5	81.1	85.4	88.6	94.6	95.7	95.8	97.1	98.3	99.6	100.0
2	0	36.6	46.0	51.9	56.1	75.1	76.5	81.1	85.4	88.6	94.6	95.7	95.8	97.1	98.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-140 RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

USE BY STATION																
CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥0	≥0	≥0	≥0	≥0	≥0	≥0	≥0	≥0
≥10000	9.2	11.4	12.1	12.6	13.9	13.9	14.3	14.5	14.7	15.0	15.0	15.0	15.0	15.0	15.3	15.3
≥9000	10.7	13.3	14.7	15.7	17.7	17.7	18.1	18.3	18.6	18.8	18.8	18.8	18.8	18.8	19.2	19.2
≥8000	11.7	13.3	14.7	15.7	17.8	17.8	18.2	18.4	18.7	18.9	18.9	18.9	18.9	18.9	19.3	19.3
≥7000	10.7	13.3	14.7	15.7	17.8	17.8	18.2	18.4	18.7	18.9	18.9	18.9	18.9	18.9	19.3	19.3
≥6000	10.8	13.4	14.9	15.8	18.0	18.0	18.3	18.6	18.8	19.0	19.0	19.0	19.0	19.0	19.4	19.4
≥5000	11.0	13.7	15.2	16.2	18.3	18.3	18.7	18.9	19.2	19.4	19.4	19.4	19.4	19.4	19.8	19.8
≥4000	12.2	15.1	16.8	18.3	20.7	20.8	21.6	21.8	22.0	22.3	22.3	22.3	22.3	22.3	22.6	22.6
≥3000	12.3	15.2	16.9	18.4	20.8	21.0	21.7	21.9	22.2	22.4	22.4	22.4	22.4	22.4	22.8	22.8
≥2000	12.9	16.0	17.8	19.5	22.5	22.6	23.5	23.7	24.0	24.2	24.2	24.2	24.2	24.2	24.6	24.6
≥1000	13.8	17.0	19.8	20.9	23.7	23.8	24.8	25.0	25.3	25.5	25.5	25.5	25.5	25.5	25.9	25.9
≥800	14.7	17.2	19.0	20.7	24.0	24.1	25.0	25.3	25.5	25.7	25.7	25.7	25.7	25.7	26.1	26.1
≥700	14.9	18.4	20.2	21.9	25.3	25.4	26.5	26.9	27.2	27.4	27.4	27.4	27.4	27.4	27.8	27.8
≥600	16.4	23.1	22.4	24.1	27.5	27.7	28.7	29.2	29.5	29.7	29.7	29.7	29.7	29.7	30.1	30.1
≥500	19.4	23.9	25.7	27.4	31.0	31.4	32.5	33.1	33.3	33.5	33.5	33.5	33.5	33.5	33.9	33.9
≥400	22.6	27.5	30.1	31.7	35.7	36.2	37.4	38.0	38.2	38.4	38.4	38.4	38.4	38.6	38.9	38.9
≥300	28.3	33.8	36.9	38.6	42.6	43.1	44.4	45.1	45.5	45.9	45.9	45.9	46.0	46.0	46.3	46.3
≥2500	31.9	38.1	41.2	42.9	47.4	47.9	49.3	50.2	50.7	51.0	51.1	51.1	51.3	51.3	51.6	51.6
≥2000	35.4	41.9	45.4	47.1	52.5	52.9	55.2	56.0	56.6	57.0	57.1	57.1	57.2	57.2	57.6	57.6
≥1800	36.8	43.8	47.1	48.7	54.3	54.7	57.1	58.0	58.6	59.0	59.2	59.2	59.3	59.3	59.6	59.6
≥1600	40.1	48.0	53.4	55.8	63.0	63.5	66.2	67.3	67.9	68.4	68.5	68.5	68.6	68.6	69.0	69.0
≥1400	42.1	50.7	56.3	59.3	67.5	68.1	71.3	72.5	73.1	73.9	74.0	74.0	74.1	74.1	74.5	74.5
≥1200	42.3	51.3	57.2	60.8	71.3	71.9	75.6	76.8	77.4	78.6	78.7	78.7	78.8	78.8	79.2	79.2
≥1000	42.3	51.3	57.2	60.8	72.2	72.8	76.6	77.8	78.4	79.8	79.9	79.9	80.0	80.0	80.4	80.4
≥900	42.6	52.0	58.0	61.7	74.5	75.2	79.9	81.2	82.2	83.7	83.8	83.8	84.0	84.0	84.3	84.3
≥800	42.8	52.3	58.3	62.4	75.6	76.4	81.3	82.8	83.7	86.1	86.2	86.6	86.7	86.7	87.1	87.1
≥700	42.8	52.3	58.3	62.4	76.5	77.6	82.8	85.0	86.3	89.5	89.6	89.9	90.1	90.1	90.4	90.4
≥600	42.8	52.3	58.3	62.4	77.1	78.2	83.7	86.6	88.9	92.7	92.8	93.3	93.4	93.4	93.8	93.8
≥500	42.8	52.3	58.3	62.4	77.1	78.2	83.7	86.9	89.0	94.4	94.5	95.1	95.2	95.2	95.6	95.6
≥400	42.8	52.3	58.3	62.4	77.1	78.2	83.7	87.1	89.9	95.6	96.2	96.9	97.8	97.8	98.2	98.2
≥300	42.8	52.3	58.3	62.4	77.1	78.2	83.7	87.1	89.9	95.9	96.6	97.4	98.3	98.9	99.4	99.5
≥200	42.8	52.3	58.3	62.4	77.1	78.2	83.7	87.1	89.9	95.9	96.6	97.4	98.3	98.9	99.8	99.9
≥100	42.8	52.3	58.3	62.4	77.1	78.2	83.7	87.1	89.9	95.9	96.6	97.4	98.3	98.9	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 1970 RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

CEILING (FEET)		VISIBILITY (STATUTE MILES)															
		20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110
20000	10.9	14.1	15.1	15.3	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	16.1	16.1
18000	13.1	16.9	18.3	18.8	20.6	20.6	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.2	21.3
16000	13.1	16.9	18.3	18.8	20.7	20.7	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.3	21.5
14000	13.1	16.9	18.3	18.8	20.7	20.7	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.3	21.5
12000	13.2	17.1	18.6	19.1	21.1	21.1	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.7	21.8
10000	13.4	17.4	18.9	19.4	21.7	21.7	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.3	22.4
8000	14.4	18.9	20.9	21.3	24.0	24.0	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.8	24.9
6000	14.5	19.1	21.1	21.6	24.5	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.3	25.4
4000	15.3	20.3	22.3	22.9	26.3	26.3	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.2	27.3
2000	15.6	20.9	23.0	23.6	27.1	27.1	27.9	27.9	27.9	27.9	27.9	27.9	27.9	28.1	28.1	28.2	28.3
1000	15.8	21.1	23.3	23.9	27.3	27.3	28.2	28.2	28.2	28.2	28.2	28.2	28.3	28.3	28.3	28.4	28.5
500	17.0	22.3	24.5	25.1	28.8	28.8	29.6	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	29.9	30.0
250	18.5	24.1	26.3	27.1	31.1	31.1	31.9	31.9	31.9	31.9	31.9	31.9	32.0	32.0	32.0	32.1	32.3
100	21.2	27.2	29.5	30.3	34.5	34.5	35.4	35.4	35.4	35.4	35.4	35.4	35.5	35.5	35.5	35.6	35.7
50	24.3	31.3	33.6	34.5	39.1	39.1	39.9	39.9	39.9	39.9	39.9	39.9	40.0	40.0	40.0	40.2	40.3
25	29.5	37.3	40.0	41.2	46.5	46.5	47.4	47.4	47.4	47.7	47.8	47.8	48.0	48.0	48.0	48.1	48.2
10	33.5	41.4	44.2	45.4	51.4	51.4	52.3	52.3	52.6	52.8	52.8	52.8	52.9	52.9	53.0	53.0	53.1
5	37.8	47.2	50.7	52.4	59.8	59.8	60.9	60.9	61.5	61.9	61.9	62.0	62.0	62.0	62.1	62.1	62.2
2	39.2	49.2	52.8	54.7	62.4	62.4	63.7	63.7	64.3	64.6	64.6	64.7	64.7	64.7	64.9	64.9	65.0
1	42.6	53.2	57.7	59.8	69.4	69.5	71.6	71.6	72.2	72.5	72.5	72.7	72.7	72.7	72.8	72.8	72.9
0.5	43.3	54.8	59.6	62.8	74.1	74.2	76.3	76.3	76.9	77.2	77.2	77.3	77.3	77.3	77.5	77.5	77.6
0.25	43.6	55.3	60.6	64.0	76.6	76.7	78.9	79.3	80.1	80.8	80.8	80.9	80.9	81.1	81.1	81.1	81.2
0.1	43.8	55.4	60.8	64.4	78.4	78.7	81.1	81.5	82.4	83.1	83.1	83.2	83.2	83.3	83.3	83.3	83.5
0.05	43.8	55.5	60.9	64.5	79.6	80.0	82.7	83.2	84.3	85.1	85.1	85.3	85.3	85.4	85.4	85.4	85.5
0.025	43.9	55.6	61.2	64.9	80.6	80.9	83.8	84.8	86.0	87.5	87.5	87.6	87.6	87.8	87.8	87.8	87.9
0.01	43.9	55.6	61.2	64.9	81.3	81.8	85.5	86.5	87.8	90.9	90.9	91.1	91.1	91.2	91.2	91.2	91.4
0.005	43.9	55.6	61.2	64.9	81.4	81.9	85.9	87.1	89.6	93.0	93.0	93.8	94.0	94.2	94.2	94.4	94.4
0.0025	43.9	55.6	61.2	64.9	81.4	81.9	86.0	87.4	90.0	94.4	94.5	95.2	96.0	96.3	96.3	96.4	96.4
0.001	43.9	55.6	61.2	64.9	81.4	81.9	86.0	87.4	90.5	95.6	95.8	96.6	97.6	98.0	98.0	98.3	98.3
0.0005	43.9	55.6	61.2	64.9	81.4	81.9	86.0	87.4	90.5	95.6	96.0	96.9	97.8	98.6	98.6	98.9	100.0
0.00025	43.9	55.6	61.2	64.9	81.4	81.9	86.0	87.4	90.5	95.6	96.0	96.9	97.8	98.6	98.6	98.9	100.0
0.0001	43.9	55.6	61.2	64.9	81.4	81.9	86.0	87.4	90.5	95.6	96.0	96.9	97.8	98.6	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 147 RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

ELEVATION FEET		VISIBILITY MILES															
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
1	1000	12.5	14.9	16.5	16.9	18.8	18.9	19.3	19.5	19.5	20.0	20.0	20.0	20.0	20.1	20.1	20.3
2	1000	14.1	17.1	19.2	19.7	21.7	21.8	22.2	22.5	22.5	23.0	23.0	23.1	23.1	23.3	23.3	23.4
1	1000	14.1	17.3	19.3	19.8	21.8	21.9	22.3	22.7	22.7	23.1	23.1	23.3	23.3	23.4	23.4	23.5
2	1000	14.1	17.3	19.3	19.8	21.8	21.9	22.3	22.7	22.7	23.1	23.1	23.3	23.3	23.4	23.4	23.5
1	1000	14.4	17.5	19.5	20.1	22.2	22.3	22.7	23.0	23.0	23.5	23.5	23.6	23.6	23.7	23.7	23.9
2	1000	14.7	18.0	20.0	20.9	22.9	23.0	23.4	23.7	23.7	24.3	24.3	24.5	24.5	24.6	24.6	24.7
1	1000	15.9	19.4	21.8	22.8	25.8	25.9	26.3	26.7	26.7	27.3	27.3	27.5	27.5	27.6	27.6	27.7
2	1000	16.3	19.7	22.2	23.1	26.1	26.3	26.6	27.1	27.1	27.7	27.7	27.8	27.8	27.9	27.9	28.1
1	1000	16.5	20.0	22.4	23.6	27.1	27.2	27.6	28.3	28.3	28.9	28.9	29.0	29.0	29.1	29.1	29.3
2	1000	16.7	20.1	22.8	23.9	27.3	27.5	27.8	28.5	28.5	29.1	29.1	29.3	29.5	29.5	29.6	29.7
1	1000	16.7	20.1	22.8	24.0	27.5	27.6	27.9	28.7	28.7	29.3	29.4	29.6	29.6	29.7	29.7	29.9
2	1000	17.4	20.9	23.6	24.9	28.4	28.5	28.9	29.7	29.7	30.3	30.5	30.7	30.7	30.8	30.8	30.9
1	1000	19.8	23.5	26.4	27.7	31.4	31.5	31.9	32.7	32.7	33.3	33.5	33.7	33.7	33.8	33.8	33.9
2	1000	23.4	27.9	31.9	32.3	36.1	36.2	36.6	37.4	37.4	38.0	38.1	38.4	38.4	38.5	38.5	38.6
1	1000	25.8	30.6	33.8	35.0	38.8	39.0	39.3	40.2	40.2	40.9	41.0	41.2	41.2	41.4	41.4	41.5
2	1000	29.7	36.1	39.2	41.1	45.9	46.0	46.4	47.2	47.5	48.4	48.6	48.9	48.9	49.2	49.2	49.3
1	1000	33.1	40.0	43.4	45.4	51.0	51.1	51.4	52.3	52.5	53.7	53.8	54.2	54.2	54.4	54.4	54.6
2	1000	38.1	45.3	49.5	52.3	58.9	59.0	59.5	60.3	60.6	62.0	62.1	62.5	62.5	62.7	62.7	62.8
1	1000	38.9	46.0	50.4	53.5	60.1	60.2	60.7	61.5	61.8	63.2	63.3	63.7	63.7	63.9	63.9	64.0
2	1000	41.0	50.1	55.9	59.6	67.0	67.1	68.3	69.2	69.4	71.0	71.1	71.5	71.5	71.7	71.7	71.8
1	1000	42.8	53.0	59.2	63.5	71.7	71.8	73.0	73.9	74.2	75.8	75.9	76.3	76.3	76.5	76.5	76.6
2	1000	43.4	54.0	60.2	64.6	74.3	74.7	76.3	77.1	77.5	79.4	79.5	79.9	79.9	80.1	80.1	80.2
1	1000	43.9	54.4	61.7	65.7	76.1	76.5	78.3	79.1	79.5	81.4	81.5	81.9	81.9	82.1	82.1	82.3
2	1000	43.5	54.4	61.7	66.2	76.9	77.2	79.4	80.7	81.2	83.2	83.3	83.7	83.7	83.9	83.9	84.1
1	1000	43.9	54.9	61.2	66.7	78.4	78.8	81.5	83.3	83.8	86.2	86.3	86.7	86.7	86.9	86.9	87.1
2	1000	43.9	54.9	61.2	66.8	78.5	79.3	83.0	84.9	85.9	89.0	89.1	89.6	89.6	89.8	89.8	89.9
1	1000	43.9	54.9	61.2	66.8	78.9	79.7	83.9	86.0	87.4	91.6	91.7	92.2	92.4	92.7	92.7	92.8
2	1000	43.9	54.9	61.2	66.8	79.0	79.9	84.2	86.7	88.5	93.5	93.8	94.2	94.5	94.7	94.7	94.8
1	1000	43.9	54.9	61.2	66.8	79.0	79.9	84.2	86.8	89.3	95.3	95.7	96.3	96.8	97.1	97.5	97.8
2	1000	43.9	54.9	61.2	66.8	79.0	79.9	84.2	86.8	89.3	95.3	95.7	96.4	96.9	97.6	98.2	99.8
1	1000	43.9	54.9	61.2	66.8	79.0	79.9	84.2	86.8	89.3	95.3	95.7	96.4	97.0	97.8	98.4	100.0
2	1000	43.9	54.9	61.2	66.8	79.0	79.9	84.2	86.8	89.3	95.3	95.7	96.4	97.0	97.8	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 834

CEILING VERSUS VISIBILITY

DEC

2100-2300

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 (14)

RAMSTEIN AB DL

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET		VISIBILITY STATUTE MILES															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100
20000	10.3	12.4	13.8	14.5	16.9	17.0	17.3	17.6	17.8	18.7	18.9	19.7	18.1	18.2	18.5	18.6	
	11.5	13.9	15.5	16.5	19.3	19.4	19.9	20.2	20.4	20.7	20.7	23.7	20.8	20.9	21.2	21.4	
18000	11.5	13.9	15.6	16.5	19.4	19.5	20.0	20.3	20.5	20.8	20.8	20.8	20.9	21.0	21.3	21.4	
	11.5	13.9	15.6	16.5	19.4	19.5	20.0	20.3	20.5	20.8	20.8	23.8	20.9	21.0	21.3	21.4	
16000	11.6	14.0	15.7	16.6	19.5	19.6	20.1	20.4	20.6	20.9	20.9	23.9	21.0	21.1	21.4	21.6	
	11.8	14.2	15.9	17.0	19.9	20.0	20.5	20.8	21.0	21.3	21.3	21.3	21.4	21.6	21.9	22.0	
14000	12.6	15.2	17.0	18.3	21.6	21.7	22.3	22.6	22.8	23.2	23.2	23.2	23.3	23.5	23.8	23.9	
	12.8	15.4	17.3	18.5	21.9	22.0	22.5	22.9	23.1	23.4	23.5	23.5	23.6	23.8	24.1	24.2	
12000	13.5	16.4	18.4	19.8	23.3	23.4	24.1	24.5	24.7	25.0	25.0	25.1	25.2	25.4	25.7	25.8	
	13.9	16.8	18.8	20.2	23.9	24.0	24.8	25.2	25.4	25.7	25.8	25.8	26.0	26.2	26.5	26.6	
10000	14.1	17.0	19.0	20.4	24.1	24.3	25.0	25.4	25.6	26.0	26.0	26.0	26.2	26.4	26.7	26.9	
	15.3	18.4	20.5	22.1	25.9	26.1	26.8	27.3	27.6	27.9	27.9	28.0	28.1	28.3	28.6	28.8	
8000	17.5	20.8	23.1	24.7	28.9	29.0	29.8	30.3	30.6	30.9	31.0	31.0	31.1	31.4	31.7	31.8	
	20.4	24.1	26.6	28.3	32.7	33.0	33.8	34.4	34.7	35.1	35.2	35.2	35.4	35.6	35.9	36.1	
6000	23.2	27.3	29.9	31.8	36.5	36.8	37.6	38.2	38.5	39.0	39.0	39.1	39.2	39.5	39.8	40.0	
	27.5	32.3	35.3	37.3	42.6	42.9	43.8	44.5	44.9	45.7	45.7	45.8	45.9	46.2	46.5	46.8	
4000	30.6	35.7	39.0	41.3	47.2	47.5	48.5	49.2	49.7	50.4	50.5	50.6	50.7	51.0	51.3	51.6	
	35.5	41.3	45.2	47.8	54.6	55.0	56.3	57.1	57.6	58.5	58.6	58.7	58.8	59.2	59.5	59.7	
2000	36.5	42.5	46.4	49.2	56.2	56.6	58.0	58.8	59.3	60.4	60.4	60.5	60.6	61.0	61.3	61.5	
	40.7	47.4	52.3	55.5	63.7	64.1	65.9	66.9	67.4	68.5	68.6	68.7	68.8	69.2	69.5	69.7	
1000	41.6	49.6	54.8	58.6	67.5	67.9	69.9	70.8	71.4	72.7	72.7	72.8	73.0	73.3	73.6	73.9	
	43.2	51.6	57.0	61.3	71.9	72.4	74.7	75.8	76.4	77.9	78.0	78.0	78.2	78.5	78.8	79.1	
500	43.4	52.0	57.5	62.0	73.4	73.8	76.4	77.5	78.3	79.7	79.8	79.9	80.0	80.4	80.7	80.9	
	43.5	52.3	57.9	62.7	74.8	75.3	78.3	79.6	80.5	82.1	82.2	82.3	82.5	82.8	83.1	83.4	
300	43.6	52.7	58.4	63.3	76.3	76.9	80.2	81.8	82.8	84.9	84.9	85.1	85.2	85.6	85.9	86.1	
	43.6	52.8	58.5	63.4	77.1	78.0	81.9	83.7	85.2	87.9	88.0	88.2	88.5	88.8	89.1	89.4	
200	43.7	52.8	58.5	63.5	77.8	78.7	83.1	85.4	87.3	91.0	91.1	91.1	91.4	91.7	92.1	92.7	
	43.7	52.8	58.5	63.5	78.0	79.0	83.7	86.3	88.5	92.7	92.9	93.2	93.6	94.0	94.3	94.6	
100	43.7	52.8	58.5	63.5	78.0	79.0	83.7	86.5	89.1	94.6	94.6	95.1	95.7	96.5	97.3	97.9	
	43.7	52.8	58.5	63.5	78.0	79.0	83.7	86.5	89.2	94.7	95.3	95.9	96.9	98.0	98.9	99.8	
50	43.7	52.8	58.5	63.5	78.0	79.0	83.7	86.5	89.2	94.7	95.3	95.9	96.9	98.0	98.9	99.8	
	43.7	52.8	58.5	63.5	78.0	79.0	83.7	86.5	89.2	94.7	95.3	95.9	96.9	98.0	98.9	99.8	

TOTAL NUMBER OF OBSERVATIONS 6681

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-147 RAMSTEIN AB DL

73-81

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO CEILING	21.7	25.7	27.3	28.2	30.8	31.0	31.6	32.1	32.4	33.0	33.1	33.2	33.3	33.5	33.8	34.2
≥ 2000	25.5	30.2	32.0	33.1	36.0	36.2	37.0	37.5	37.8	38.6	38.7	38.8	38.9	39.2	39.5	39.9
≥ 1800	25.7	30.4	32.2	33.3	36.3	36.5	37.2	37.8	38.1	38.9	38.9	39.0	39.2	39.5	39.8	40.2
≥ 1600	25.7	30.4	32.3	33.4	36.4	36.6	37.3	37.9	38.2	38.9	39.0	39.1	39.3	39.5	39.9	40.3
≥ 1400	25.9	30.6	32.5	33.6	36.6	36.8	37.5	38.1	38.4	39.1	39.2	39.3	39.5	39.8	40.1	40.5
≥ 1200	26.2	31.1	33.7	34.1	37.1	37.3	38.1	38.7	39.0	39.7	39.8	39.9	40.0	40.3	40.7	41.1
≥ 1000	27.8	32.9	34.9	36.1	39.3	39.5	40.3	40.9	41.2	42.0	42.1	42.1	42.3	42.6	42.9	43.3
≥ 900	28.3	33.5	35.5	36.7	40.0	40.2	41.0	41.6	41.9	42.7	42.8	42.9	43.1	43.4	43.7	44.1
≥ 800	30.6	36.4	38.6	39.9	43.5	43.7	44.6	45.2	45.6	46.4	46.5	46.6	46.8	47.1	47.5	47.9
≥ 700	31.4	37.3	39.5	40.9	44.6	44.9	45.7	46.4	46.8	47.6	47.7	47.8	48.0	48.3	48.7	49.1
≥ 600	31.8	37.8	40.1	41.5	45.2	45.4	46.3	47.0	47.4	48.2	48.3	48.4	48.6	48.9	49.3	49.7
≥ 500	33.9	40.3	42.7	44.2	48.2	48.4	49.4	50.1	50.5	51.4	51.5	51.6	51.8	52.2	52.5	53.0
≥ 450	36.9	44.0	46.6	48.2	52.5	52.8	53.8	54.6	54.9	55.9	56.0	56.2	56.4	56.7	57.1	57.5
≥ 400	40.1	47.8	50.6	52.3	57.0	57.3	58.4	59.3	59.7	60.7	60.8	61.0	61.2	61.5	61.9	62.4
≥ 350	43.1	51.4	54.4	56.2	61.3	61.6	62.8	63.6	64.1	65.2	65.3	65.4	65.6	66.0	66.4	66.8
≥ 300	47.2	56.3	59.7	61.8	67.4	67.8	69.1	70.1	70.6	71.8	72.0	72.1	72.3	72.7	73.1	73.6
≥ 250	48.9	58.5	62.1	64.3	70.2	70.6	72.0	73.0	73.5	74.8	74.9	75.1	75.3	75.7	76.1	76.6
≥ 200	51.1	61.3	65.2	67.5	74.0	74.4	75.9	77.0	77.6	78.9	79.1	79.2	79.4	79.8	80.2	80.7
≥ 1800	51.7	62.1	66.0	68.4	75.0	75.4	77.0	78.1	78.6	80.0	80.1	80.3	80.5	80.9	81.3	81.8
≥ 1500	53.6	64.8	69.1	71.8	79.2	79.7	81.5	82.7	83.3	84.7	84.9	85.1	85.3	85.7	86.1	86.6
≥ 1200	54.5	66.0	70.5	73.5	81.6	82.1	84.0	85.3	85.9	87.5	87.7	87.8	88.1	88.5	88.9	89.4
≥ 1000	55.0	66.8	71.5	74.8	83.6	84.2	86.2	87.6	88.3	90.0	90.2	90.4	90.6	91.0	91.4	91.9
≥ 900	55.2	67.0	71.8	75.1	84.2	84.8	87.0	88.5	89.2	90.9	91.1	91.3	91.6	92.0	92.4	92.9
≥ 800	55.3	67.2	72.1	75.5	84.9	85.5	87.9	89.4	90.2	92.1	92.3	92.5	92.7	93.2	93.6	94.1
≥ 700	55.3	67.3	72.2	75.7	85.3	86.1	88.5	90.2	91.1	93.1	93.3	93.5	93.7	94.2	94.6	95.1
≥ 600	55.3	67.3	72.2	75.7	85.6	86.3	89.0	90.8	91.8	94.0	94.2	94.5	94.7	95.2	95.6	96.1
≥ 500	55.3	67.3	72.2	75.7	85.7	86.5	89.3	91.3	92.3	94.8	95.0	95.3	95.6	96.0	96.5	97.0
≥ 400	55.3	67.3	72.2	75.7	85.7	86.5	89.4	91.6	92.7	95.4	95.6	95.9	96.2	96.7	97.1	97.6
≥ 300	55.3	67.3	72.2	75.7	85.7	86.5	89.4	91.7	92.9	95.8	96.1	96.4	96.8	97.3	97.8	98.4
≥ 200	55.3	67.3	72.2	75.7	85.7	86.5	89.4	91.7	92.9	95.9	96.3	96.7	97.1	97.7	98.3	99.2
≥ 100	55.3	67.3	72.2	75.7	85.7	86.5	89.4	91.7	92.9	96.0	96.4	96.7	97.2	97.8	98.5	99.8
≥ 0	55.3	67.3	72.3	75.8	85.8	86.6	89.4	91.7	92.9	96.0	96.4	96.8	97.2	97.9	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 78471

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

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 ($\sum X^2$), sums of values ($\sum X$), means ($\bar{X}$), and standard deviations (σ_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.

CLIMATE CLIMATOLOGY BRANCH

USAFETAC

AIR WEATHER SERVICE/MAC

STATION 1-140 RAMSTEIN AB OL STATION NAME

52-81

YEARS

DAILY TEMPERATURES

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						.2
95						.4	1.6	.1					.2
90						1.4	4.0	1.4					.6
85				.2	1.4	4.2	12.0	7.1	1.1				2.2
80				.6	5.4	14.4	23.6	19.6	5.0				5.7
75			.2	3.3	15.5	31.8	42.0	38.5	17.4	1.3			12.5
70			1.0	9.0	30.0	51.9	62.7	60.6	38.0	4.9			21.5
65		.4	5.1	19.5	46.2	72.3	84.5	84.2	61.4	15.2	.4	.1	32.5
60		1.5	12.7	36.6	71.3	91.1	97.7	98.2	84.6	35.6	2.4		44.5
55	.9	5.5	25.2	57.3	89.6	98.6	100.0	100.0	96.4	61.4	11.0	2.2	54.3
50	5.8	16.2	47.8	76.9	97.3	99.9			99.8	83.4	29.9	9.9	64.2
45	18.7	36.0	69.7	92.9	99.6	100.0			100.0	95.4	54.4	24.6	74.5
40	37.5	57.0	85.6	99.2	100.0					99.4	77.0	43.9	83.5
35	65.7	77.4	95.6	100.0						99.9	93.4	70.9	92.0
30	84.9	92.1	99.5							100.0	99.7	89.6	97.2
25	94.0	96.7	99.9								100.0	96.6	98.9
20	97.9	98.8	100.0									99.4	99.7
15	99.8	99.8										100.0	100.0
10	100.0	99.9											100.0
5		100.0											100.0
MEAN	37.2	41.0	49.0	56.6	64.8	71.4	73.4	72.5	67.1	56.7	45.5	38.8	56.1
S.D.	7.794	8.683	8.759	8.966	8.706	8.288	8.590	7.588	7.443	7.612	7.231	7.838	15.271
TOTAL OBS	899	819	928	899	930	900	895	903	900	930	900	930	10833

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
100147 RAMSTEIN AB DL
STATION STATION NAME

DAILY TEMPERATURES

52-81

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

444444

[illegible]

NATIONAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC
 STATION 1-143 RAMSTEIN AB DL
 STATION NAME

DAILY TEMPERATURES

52-81

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
75					.1	.8	3.8	.9	.1				.1
74					.9	5.3	14.5	10.6	.6				.5
73				.1	5.7	23.2	37.3	31.1	10.0	.4			2.6
72			.3	2.9	20.8	52.6	70.9	69.1	33.7	4.6			9.0
71		.2	1.9	10.7	46.3	82.1	95.4	93.7	65.1	19.0	1.9	.3	21.2
70	.6	2.0	9.5	33.8	75.7	96.9	100.0	99.7	90.7	44.6	8.3	1.7	34.8
69	5.8	11.1	32.7	59.8	94.1	99.9		100.0	98.7	72.1	26.8	9.8	47.2
68	20.5	28.0	58.2	84.9	99.2	100.0			100.0	92.3	53.0	28.6	59.5
67	44.4	56.0	80.9	98.2	100.0					99.5	80.0	51.7	72.4
66	69.1	76.1	92.2	100.0						100.0	94.6	74.8	84.4
65	82.9	89.1	98.2								99.4	87.6	92.3
64	92.2	93.5	99.6								99.9	95.9	96.5
63	96.6	96.7	100.0								100.0	98.9	98.5
62	99.1	99.1										99.9	99.4
61	99.9	99.8										100.0	99.8
60	100.0	100.0											100.0
59													100.0
58													
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6													
5													
4													
3													
2													
1													
0													
MEAN	32.5	34.6	40.6	46.5	54.2	60.1	63.2	62.2	57.0	48.6	41.2	34.4	47.8
S.D.	8.460	8.722	7.262	6.437	6.390	5.926	5.873	5.236	5.634	6.335	6.622	8.109	12.872
TOTAL OBS	899	819	928	899	930	900	895	903	900	930	900	930	10833

7

U.S. AIR FORCE
 CLIMATE BRANCH
 AFMSTAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

17140 HAMSTEIN AB EL

57-21

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
52			*	62	78	79	94	100	94	71	63	52	77
53	44	55	71	73	89	93	86	91	88	74	60	56	71
54	52	49	64	66	82	89	81	88	87	69	61	51	69
55	52	50	73	82	81	85	90	83	79	67	65	53	70
56	51	41	66	69	87	77	90	86	77	77	51	56	77
57	51	51	66	72	73	93	98	85	80	71	51	51	78
58	52	64	64	67	80	83	85	88	84	66	54	52	78
59	55	61	69	79	76	84	95	86	86	74	58	54	75
60	55	67	64	72	80	87	79	84	74	70	59	53	87
61	50	65	71	77	76	86	89	87	96	72	54	58	89
62	52	48	55	79	76	82*	87	91	87	77	59	50	81
63	41	42	57	68	77	79	86	86	78	66	65	45	76
64	42	57	56	74	83	91	95	89	84	70	56	53	85
65	49	41	65	67	81	86	84	82	77	68	59	55	80
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	53	92
68	50	50	76*	85	79	85	92	79	76	72	68	47	92
69	47	50	56	72	88	81*	83*	68	79	71	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	93
72	55	57	69	73	78	84	89	84	75	69	66	53	99
73	46	50	71	66	80	84	87	87	97	69	57	43	87
74	53	55	73	75	80	82	86	96	80	51	60	55	95
75	55	55	57	75	78	86	89	91	82	62	59	43	91
76	51	59	64	75	87	98	98	87	77	71	55	48	94
77	51	53	68	69	78	91	87	84	80	75	64	55	91
78	45	59	64	68	77	84	89	84	73	78	53	55	89
79	39	50	53	68	87	86	87	84	81	77	54	57	97
80	48	54	61	70	72	81	86	88	79	64	59	43	84
81	46	48	66	72	82	82	84	86	81	68	59	48	85
MEAN	49.6	53.6	64.0	72.4	80.5	85.4	88.6	87.2	80.5	70.4	56.8	52.0	66.4
S.D.	4.499	5.837	6.389	4.354	4.175	4.937	5.138	3.757	4.297	5.785	4.219	4.691	3.639
TOTAL OBS.	899	819	928	899	930	900	895	903	900	930	900	930	10533

NOTES * BASED ON LESS THAN FULL MONTHS

USAF ETAC FORM 0-88-5 (OLA)

JUL 84

(AT LEAST ONE DAY LESS THAN 24 OBS)

U.S. CLIMATOLOGY BRANCH
AFMSTAC
AF WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

14145 RAMSTEIN AB DL
STATION STATION NAME

52-91 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH 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	11
53	12	-1	23	28	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	30	37	43	43	32	21	17	17	6
56	1	-9	14	22	29	37	47	38	37	31	12	14	-9
57	5	22	19	27	28	37	46	38	32	27	25	16	5
58	0	15	7	19	33	39	42	41	30	30	29	13	7
59	9	13	23	23	33	37	46	37	31	24	27	20	9
60	-7	9	25	25	24	40	37	44	30	29	26	16	-7
61	11	23	22	37	33	43	39	43	38	25	16	7	11
62	13	11	15	28	27	31*	39	39	33	24	24	0	13
63	-5	-8	4	24	28	42	40	36	32	26	27	4	-5
64	3	12	14	27	36	39	41	36	33	24	25	12	3
65	19	7	5	26	29	41	45	39	33	21	15	20	19
66		23*	18	26	31	38	44	38	32	24	17	20	
67	8	11	22	21	26	37	43	41	39	28	23	14	8
68	-5	20	21*	21	30	39	44	42	39	30	28	5	-5
69	19	5	19	24	33	39*	42*	50	34	32	19	6	19
70	10	4	12	24	32	35	39	40	32	24	23	5	10
71	-2	15	3	24	37	39	39	42	30	24	15	21	-2
72	6	6	17	26	33	35	42	42	28	17	23	8	6
73	8	17	19	24	30	37	46	39	33	23	10	0	8
74	24	19	23	26	35	37	39	42	33	28	24	23	24
75	21	19	19	23	30	33	42	46	44	28	17	0	21
76	3	17	10	23	30	37	44	42	35	24	21	5	3
77	21	15	17	23	32	39	39	44	35	23	17	15	21
78	21	3	24	23	37	37	42	37	35	30	23	12	21
79	1	17	21	26	28	42	37	37	34	27	21	27	1
80	9	21	21	28	30	41	41	34	39	30	21	9	9
81	12	12	27	23	28	41	45	39	37	30	18	7	12
MEAN	8.2	11.3	17.1	24.8	30.6	37.9	41.9	40.1	34.2	26.5	23.9	12.3	4.7
S.D.	5.761	8.631	6.630	3.174	3.213	2.778	2.889	2.853	3.481	3.767	4.790	7.273	6.464
TOTAL OBS.	699	819	928	899	930	900	895	903	900	930	970	930	10933

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)
JUL 84

(AT LEAST ONE DAY LESS THAN 24 OBS)

PSYCHROMETRIC SUMMARY

YEARS

JAN
MONTH

PAGE 1 0000-0200
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	Dew Point											
1 / 41		.6		.1	.1													7	7													
5 / 41		.2	.4	.2	.2													9	9	5	2											
1 / 47		.4	1.3	.1	.2													17	17	2	3											
4 / 45		.6	2.2	.6	.1													29	29	9	7											
4 / 43		1.6	2.2	.7														37	37	26	5											
2 / 41		3.2	4.4	.2														66	66	45	8											
1 / 39	.1	2.6	3.0	.6														53	53	48	40											
7 / 37	.1	3.8	3.8	.2														67	67	65	36											
1 / 35	.6	7.9	2.8	.1														97	97	70	69											
3 / 33	1.2	7.5	2.8															96	96	128	72											
1 / 31	1.4	6.2	.6															69	69	98	57											
1 / 29	.8	8.5	.5															82	82	97	12											
1 / 27	1.1	5.4	.5															53	58	75	11											
1 / 25	1.1	3.1	.5															39	39	46	71											
1 / 23	.7	1.3	.2															19	19	30	62											
2 / 21	.4	.7																9	9	14	44											
1 / 19	1.4	1.3																26	26	23	19											
1 / 17	.6	1.0																13	13	18	19											
1 / 15	.2	.7																8	8	10	19											
1 / 13	.1	1.1																10	10	9	16											
1 / 11	.1	1.0																9	9	6	10											
1 / 9	.5	.6																9	9	10	9											
1 / 7	.4																	3	3	5	6											
1 / 5																		3	3	4	7											
1 / 3																					5											
1 / 1																					6											
Tot	11.55	825.0	3.0	.7														835	835	835	835											

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	s_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	559736	67936	81.4	9.165	835	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	974382	27614	33.1	8.564	835		39.8					93
Wet Bulb	863369	26039	31.2	7.847	835		48.7					93
Dew Point	702644	23236	27.8	8.197	835		66.6					93

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

PSYCHROMETRIC SUMMARY

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS		S		T	
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

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		.7																3	3																
50		.1	.2															3	3	2															
49		.5	1.3															15	16	3															
48		1.0	2.5	.2	.2													33	33	12	1														
47	.1	1.4	1.6	.1														27	27	33	7														
46	.1	2.7	5.1	.5														71	71	23	22														
45	.4	4.9	3.1	.2														72	72	47	35														
44	.2	2.0	3.6	.2														51	51	77	29														
43	.4	6.9	3.3	.1														97	93	53	61														
42	1.3	6.9	3.8															101	101	125	67														
41	.5	5.9	.9															53	53	178	60														
40	1.0	8.8	.2															84	84	84	116														
39	2.0	6.3	.2															72	72	52	121														
38	.6	4.3	.1															42	42	43	65														
37	.7	1.9																22	22	36	73														
36	.6	.4	.2															10	10	16	41														
35	.3	1.0																15	15	10	27														
34	.2	2.1																19	19	25	11														
33	.1	1.2																11	11	13	16														
32		1.2																10	10	12	15														
31	.5	.7																10	10	7	13														
30	1.1	1.1																18	18	16	25														
29	.1	.2																3	3	7	5														
28		.2																2	2	3	12														
27																					5														
26																					6														
25																					2														
TOTAL	17.5	61.2	26.3	1.4	.4													837	837	837	937														

Element (X)	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	568316	58100	81.4	8.99	837	$\leq 0^\circ\text{F}$	$\leq 32^\circ\text{F}$	$\geq 67^\circ\text{F}$	$\geq 73^\circ\text{F}$	$\geq 80^\circ\text{F}$	$\geq 93^\circ\text{F}$	
Dry Bulb	448174	27210	32.5	8.723	837		41.2					93
Wet Bulb	342135	25673	30.7	8.087	837		51.4					93
Dew Point	685125	22847	27.3	8.576	837	.7	68.1					93

PSYCHROMETRIC SUMMARY

JAN
MONTH

PAGE 1 0600-0900
HOURS U. S. T. I.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

JAN
MONTH

PAGE 1 7900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

1143	AMSTEIN AB DL
STATION	STATION NAME

73-01

YEARS

JAN
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														
5 / 55				.7			.4											5	5																
4 / 53			.1	.3	.1	.2	.1											6	6																
5 / 51		.1	1.3	.4														15	15																
5 / 49			.7	.4	.4													12	12	5															
4 / 47		.7	1.3	.8	.2													26	26	15	1														
4 / 45	.1	1.2	3.2	.4														41	41	35	1														
4 / 43		1.4	3.1	2.2	.5													60	60	39	15														
3 / 41	.2	3.5	4.9	2.4														92	92	53	31														
3 / 39	.4	4.4	5.7	.8	.1													93	93	59	47														
3 / 37	.6	4.7	5.7	.4														95	95	88	54														
3 / 35		6.6	5.4	.1														101	101	176	67														
3 / 33	.6	4.3	3.9	.4														77	77	135	50														
2 / 31	.4	2.7	2.9	.1														51	51	95	62														
2 / 29	.1	4.7	1.8															55	55	66	93														
2 / 27	.4	4.4	1.7															48	48	56	140														
2 / 25	.2	1.7																16	16	31	77														
2 / 23		1.7	.5															16	18	17	57														
2 / 21	.2	.2	.1															5	5	18	20														
1 / 19	.2	1.1																11	11	6	25														
1 / 17		.4																3	3	12	14														
1 / 15		.6																5	5	4	10														
1 / 13		.1																1	1	3	7														
1 / 11		.1																1	1		8														
1 / 9	.1	.2																3	3	3	10														
1 / 7																				1	3														
1 / 5																					1														
1 / 3																					1														
1 / 1																					1														
1 / -																					1														
TOTAL	3.8	44.8	41.1	8.6	1.4	.1	.4											837	837	837	837														

Element (X)	Σx'	Σx	Σ	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5.11433	64167	76.7	10.500	837	• 0 F	• 32 F	• 67 F	• 73 F	• 80 F	• 93 F	Total
Dry Bulb	1168016	30644	36.6	7.425	837		24.1					93
Wet Bulb	1003010	28424	34.0	6.720	837		34.7					93
Dew Point	785575	24885	29.7	7.395	837	.1	59.4					93

PSYCHROMETRIC SUMMARY

YEARS

HOURS (L. S. T.)

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

PSYCHROMETRIC SUMMARY

73-81

YEARS

JAN
MONTH

PAGE 1

1800-2200
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														
4 / 51			.1	.2														3	3																
2 / 51		.4	.1															4	4																
5 / 49		.5	.5	.1														9	9	6															
1 / 47		.1	1.6	.1														15	15	5	5														
4 / 45		.8	2.9	1.3	.4													45	45	18	3														
4 / 43		1.1	2.6	.2	.1													34	34	16	5														
1 / 41		3.3	3.7	1.8	.4													77	77	56	23														
4 / 39	.2	4.7	4.5	.1														82	82	45	25														
3 / 37	.8	4.5	4.3															61	61	75	53														
1 / 35	.4	6.7	3.8															91	91	93	56														
3 / 33	1.0	6.0	4.1															92	92	127	73														
0 / 31	.5	4.5	1.7															56	56	98	66														
1 / 29	.1	9.3	.5															83	83	85	102														
1 / 27	1.6	7.2	.5															77	77	90	139														
1 / 25	.1	2.0	.2															27	27	32	87														
2 / 23	.1	1.9	.5															71	71	18	79														
2 / 21	.7	.8																13	13	25	25														
1 / 19	.7	.5																10	10	16	27														
1 / 17		.2																2	2	6	17														
1 / 15	.1	.7																7	7	5	17														
1 / 13		1.1																9	9	11	10														
1 / 11	.1	.2																3	3	2	5														
1 / 9	.1	.2																3	3	4	13														
1 / 7		.1																1	1		3														
1 / 5																				1	3														
1 / 3																					3														
1 / 1																					1														
TOTAL	.6	57.1	31.6	3.9	.8														836	836	836														
														</																					

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AD-WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

17 140 HAMSTEIN AB DL
STATION STATION NAME

73-81

YEARS

JAN
MONTH

PAGE 1 210-2300
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			.2															2	2						
47 / 51		.5																4	4						
47 / 49			.6		.2													7	7	5					
47 / 47		.1	1.0	.5	.1													14	14	2	6				
47 / 45		.8	2.6	.8														36	36	9					
47 / 43		.4	3.1	.5	.1													34	34	24	3				
47 / 41		3.7	5.3	.5	.1													80	80	42	16				
47 / 39	.2	3.9	3.8															67	67	57	31				
47 / 37	.7	3.7	3.0	.1														63	63	74	45				
47 / 35	.2	7.2	2.9															86	86	73	64				
47 / 33	1.1	7.8	2.3															93	93	106	81				
47 / 31	.4	3.0	3.0															53	53	101	64				
47 / 29	.5	9.6	.4															86	86	91	95				
47 / 27	2.3	6.9																77	77	89	121				
47 / 25	.8	3.1	.2															34	34	41	88				
47 / 23	.4	2.3	.5															26	26	75	72				
47 / 21	1.1	1.2																19	19	28	43				
47 / 19	.7	1.2																14	14	19	13				
47 / 17	.4	.7																9	9	16	21				
47 / 15	.4	.1																4	4	4	20				
47 / 13	.2	1.0																10	10	11	20				
47 / 11	.4	.7																9	9	8	3				
47 / 9	.1	.8																8	8	7	10				
47 / 7	.1	.1																2	2	3	7				
47 / 5																				1	6				
47 / 3																					7				
47 / 1																					1				
TOTAL	2.8	58.4	28.8	2.4	.6													837	837	837	837				
																						837		837	

USAFETAC FORM 0-26-5 (OL A) REVISI 0-26-5 (OL A) JUL 64

PSYCHROMETRIC SUMMARY

JAN
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			
5 / 55				.1	.1	.1	.1											7	7					
4 / 53			.1	.1	.1	.1	.1											22	22					
2 / 51		.2	.3	.1	.1		.1											49	49					
5 / 49		.1	.4	.2	.1	.1												60	60	29	3			
1 / 47		.4	1.3	.3	.2													149	149	48	27			
4 / 45	.1	1.2	2.5	.6	.1													306	306	130	33			
4 / 43	.1	1.3	2.5	.9	.2													320	320	239	59			
2 / 41	.1	3.1	4.7	1.3	.1													622	622	352	190			
4 / 39	.2	4.5	3.9	.4	.0													605	605	398	288			
3 / 37	.6	3.8	3.8	.2														557	557	631	335			
1 / 35	.4	6.8	4.1	.1														762	762	654	510			
3 / 33	1.1	6.3	3.7	.1														753	753	964	609			
2 / 31	.5	4.1	1.7	.0														426	426	822	525			
1 / 29	.4	7.7	.7															593	593	664	790			
2 / 27	1.7	5.6	.6															521	521	591	1042			
1 / 25	.5	2.7	.2															224	224	296	612			
2 / 23	.3	1.9	.3															168	168	195	532			
2 / 21	.6	.8	.1															94	94	158	262			
1 / 19	.8	.9	.0															115	115	116	174			
1 / 17	.2	.9																74	74	124	124			
1 / 15	.1	.9																65	65	63	146			
1 / 13	.1	.7																53	53	68	93			
1 / 11	.3	.5																49	49	40	79			
1 / 9	.4	.5																60	60	58	105			
1 / 7	.1	.2																16	16	20	47			
1 / 5	.1	.1																16	16	23	41			
1 / 3	.1	.0																5	5	7	27			
1 / 1	.1																	2	2	3	17			
1 / -1																					18			
-1 / -3																					3			
-1 / -5																					5			
TOTAL	55.6	55.2	31.0	4.3	.9	.0	.1											6693	6693	6693	6693			
																		6693		6693				
Element (X)	Σx'		Σx		X		s _x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	43.95422		533048		79.6		9.795		6693		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total	
Dry Bulb	8274239		228621		34.2		8.335		6693				275.8										744	
Wet Bulb	7248497		214303		32.0		7.602		6693				361.1										744	
Dew Point	5802665		189609		28.3		8.027		6693		2.9		516.6										744	

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 7000-7250
HOURS (L. S. T.)

[illegible]

RECEIVED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OLA)

USAFETAC

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0370-0500
HOURS (L. S. T.)

[illegible]

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

PSYCHROMETRIC SUMMARY

73-81

FEB
MONTH

PAGE 1 0600-2400
HOURS (L. S. T.)

[illegible]

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

PSYCHROMETRIC SUMMARY

1 14	SAMSTEIN AB DL	73-81	FEB
STATION	STATION NAME	YEARS	MONTH

PAGE 1 2970-1190
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														
4 / 53				.1	.1													2	2															
2 / 51	.4	.1			.1													5	5	3	3													
5 / 49		.1		.4	.1													5	5	2	1													
1 / 47		.5	.4	.1	.1													9	9	2	1													
4 / 45		1.8	3.4	.8														46	46	11														
4 / 43		3.2	2.0	.3														41	41	30	5													
2 / 41		4.6	2.2	.4	.1													56	56	61	34													
4 / 39		5.3	1.6	.7	.1													58	58	41	33													
3 / 37	.4	5.1	4.5	.5														80	80	54	45													
3 / 35	.3	5.4	7.1	.4														100	100	62	67													
3 / 33	.7	5.0	5.5	.4														88	88	99	56													
2 / 31		3.7	1.4	.1														40	41	175	33													
1 / 29	.3	6.8	2.5	.1														74	74	79	67													
2 / 27	.7	8.5	2.9	.3														94	94	83	110													
1 / 25	.7	2.9	.1															28	28	70	71													
2 / 23		1.4	.1															12	12	27	97													
2 / 21	.7	.4																8	8	13	43													
1 / 19	.7		.1															6	6	9	41													
1 / 17	.1	.7																6	6	5	25													
1 / 15																				2	19													
1 / 13		.1																1	1		3													
1 / 11																				1	3													
0 / 9		.1																1	1	1	4													
1 / 7		.1																1	1		1													
1 / 5																				1														
1 / 3																					1													
1 / 1																					1													
-1 / -3																					1													
TOTAL	4.7	56.0	33.9	4.6	.8													761	762	761	761													

PSYCHROMETRIC SUMMARY

FE3
MONTH

[illegible]

PSYCHROMETRIC SUMMARY

FEB
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

FEB
MONTH

PAGE 1 1875-2000
HOURS 11.5.1

[illegible]

PSYCHROMETRIC SUMMARY

FEB
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMAR

1010 AMSTEIN AB DL

STATION S

73-81

FEE
MONTH

PAGE 1

ALL

HOURS: 11:30 A.M. - 1:30 P.M.

[illegible]

PSYCHROMETRIC SUMMARY

73-81

YEARS

FE-
MONTH

PAGE 2

ALL
HOURS L. S. T.

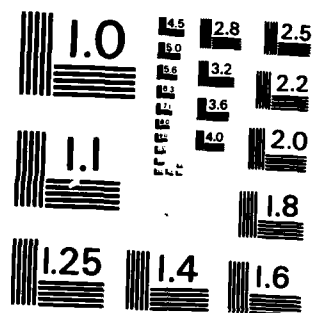
[illegible]

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

4/5

F/O 4/2

N4



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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 147 HAMSTEIN A3 DL

73-81

MAR
MONTH

PAGE 1

0000-0200
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	Dew Point				
5 / 49				.1														1	1						
5 / 55		.4	.2			.1												6	6	1					
4 / 53		1.1	1.0	.8	.1													25	25	4					
4 / 51		.8	.7	.1	.2													16	16	17	6				
4 / 47	.2	.5	2.4	.6	.2													33	33	12	14				
4 / 45	.2	1.2	1.4	1.7	.2													34	34	25	17				
4 / 43	.5	4.2	3.3	1.3	.6													83	83	48	23				
4 / 41	.1	2.3	4.4	.8	.4													67	67	52	34				
4 / 39		4.2	4.7	.8														81	81	65	43				
4 / 37	.2	6.5	2.6	.7														84	84	83	38				
3 / 37	.1	3.9	3.5	1.0														71	71	99	65				
3 / 35	.4	3.9	5.0	.1														79	79	63	96				
3 / 33	.4	3.7	4.1	.6	.6													72	72	55	86				
3 / 31	.4	4.4	2.7	.7														63	63	91	54				
3 / 29	.2	3.7	.6	.2														34	34	70	51				
3 / 27	.1	3.5	1.0	.1														39	39	41	97				
3 / 25	.1	1.7	1.0	.1														24	24	39	66				
2 / 23		1.2	.4															13	13	20	54				
2 / 21	.4	.1	.1															5	5	16	22				
2 / 19		.4																3	3	5	24				
1 / 17		.4																3	3	5	13				
1 / 15		.1																1	1	2	6				
1 / 13																				1	17				
1 / 11																					7				
1 / 9																					7				
1 / 7																					5				
1 / 5																					4				
TOTAL	3.3	46.6	38.4	9.2	2.4	.1												837	837	837	837				
																						837		637	

PSYCHROMETRIC SUMMARY

MAR
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				
1 / 57			.1															1	1						
5 / 55		.5																5	5						
4 / 53		.6	.5	.4														12	12	8					
2 / 51		1.1	1.4	.1	.2													24	24	6	9				
1 / 49	.1	.5	1.3	.2	.1													19	19	17	9				
1 / 47		1.3	.7	.7														23	23	26	5				
4 / 45	.5	3.6	3.5	2.5														64	84	78	31				
4 / 43	.1	2.6	3.5	1.7														67	80	45	23				
1 / 41		4.3	4.1	1.3														81	81	62	41				
6 / 39		6.1	3.3	.2	.4													84	84	77	34				
3 / 37	1.1	4.3	2.9	.7														75	75	68	62				
1 / 35	.1	3.2	3.1	.1														55	55	62	84				
3 / 33	.6	4.5	2.9															67	57	59	61				
1 / 31		3.8	3.3	.4	.2													56	56	94	51				
1 / 29	.5	6.1	1.7	.1														64	64	66	82				
1 / 27	.7	4.4	.7	.1														50	57	70	107				
1 / 25		1.7	.6															19	19	33	44				
2 / 23	.1	3.1	1.0															35	35	30	75				
2 / 21	.1	.8	.1															9	9	16	21				
1 / 19	.2																	2	2	15	32				
1 / 17		.5																4	4	1	19				
1 / 15		.4																3	3	4	5				
1 / 13		.1																1	1	4	17				
1 / 11		.5																4	4	4	8				
10 / 9																					6				
1 / 7																					5				
1 / 5																					10				
TOTAL		.254	.132	.9	7.9	1.7													837	837	837	837			
																					837		837		

PSYCHROMETRIC SUMMARY

MAD

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-2000
HOURS (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														
1 / 59				.1														1	1																
1 / 57				.1														1	1																
5 / 55		.1	.1															2	2																
4 / 53		.6	.5	.4	.1													13	13	6															
2 / 51		1.1	1.2	.2	.6													26	26	8	5														
5 / 49		1.4	1.1	.1	.2													24	24	16	6														
1 / 47	.2	.7	.7	1.1														23	23	31	13														
4 / 45	.4	3.1	3.1	.8	.2													64	64	31	33														
4 / 43		3.2	3.2	1.7														60	60	44	19														
2 / 41	.2	3.9	5.1	1.3														89	89	58	48														
4 / 39		5.6	3.2	.8	.2													83	83	62	37														
3 / 37	1.	4.2	1.4	.4														53	58	94	37														
1 / 35	.4	4.5	3.7	.2														74	74	80	96														
3 / 33	.7	4.7	2.6	.1														68	68	69	72														
2 / 31	.1	3.8	1.7															47	47	91	51														
1 / 29		.5	4.7	1.6	.4													59	59	64	56														
2 / 27	.5	4.8	1.7															52	52	60	117														
1 / 25	.4	2.5	.5	.1														29	29	39	56														
2 / 23		2.5	.8															28	28	23	61														
2 / 21	.4	1.2	.2															15	15	27	28														
1 / 19	.2	.7																8	8	15	27														
1 / 17	.1																	1	1	9	27														
1 / 15		.5																4	4		19														
1 / 13		.1																1	1	5	8														
1 / 11		.4																3	3	3	7														
1 / 9		.5																4	4	4	2														
1 / 7																					8														
1 / 5																					9														
TOTAL	5.7	54.8	31.5	7.2	1.4													837	837	837	837														

Element (X)	Σx^2	Σx	$\bar{x}$	s_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	1194829	30831	36.8	8.413	837		27.9					93
Wet Bulb	1048360	28864	34.5	7.961	837		37.8					93
Dew Point	654939	25681	30.7	8.952	837		52.1					93

PSYCHROMETRIC SUMMARY

MAR
MONTH

0920-1120
HOURS 11:55 AM

[illegible]

PSYCHROMETRIC SUMMARY

MAC
MONTE

STATION

STATION NAME

YEARS

PAGE 1 1200-1400
HOURS U. S. T.

[illegible]

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

PSYCHROMETRIC SUMMARY

YEARS

MAY
MONTH

PAGE 7 1200-1400
HOURS (L. S. T.)

[illegible]

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

PSYCHROMETRIC SUMMARY

YEARS

MA =
MONTH

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

[illegible]

PSYCHROMETRIC SUMMARY

73-61

MA 3
MONTH

PAGE 7

1500-1700
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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-147 RAMSTEIN AB DL 73-81
STATION STATION NAME YEARS
PAGE 1 1600-2000
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 / 55						.1	.1											2	2																	
47 / 53						.2			.1	.1								4	4																	
7 / 51					.1	.5	.2											7	7																	
7 / 59			.2	.4	.8	.6	.2	.4										22	22																	
7 / 57			.4	1.1	.6	.7	.2											24	24		1															
57 / 55		.1	.6	.6	.5	.6	.1											21	21		3															
47 / 53	.1	.5	1.7	.7	1.1	.5	.4											34	34		18	1														
7 / 51		1.3	2.4	.6	1.2	.2	.1											49	49		29	6														
57 / 49		.7	1.6	1.1	1.4	.4	.1											43	43		40	9														
7 / 47		1.2	1.8	2.9	1.7	.6	.2											70	70		47	28														
47 / 45	.2	2.2	5.6	5.4	1.1	.2	.1											124	124		61	54														
47 / 43	.1	1.4	6.8	3.5	1.7	.2												115	115		68	30														
7 / 41		1.7	4.5	3.1	1.8	.2	.1											96	96		108	43														
47 / 39		2.9	1.9	2.5	1.1		.1											70	70		118	50														
37 / 37	.1	.7	2.2	1.8	.2	.8												49	49		89	87														
7 / 35		.7	3.7	1.4	.4	.2												48	48		62	107														
37 / 33		.8	1.1	.6	.6													26	26		62	72														
7 / 31		.7	.2	.2	.4													13	13		60	40														
7 / 29		.8	.2	.7														15	15		24	46														
7 / 27		.1	.1	.4														5	5		24	61														
7 / 25																					15	49														
7 / 23																					8	52														
27 / 21																							21													
7 / 19																							17													
7 / 17																							6													
17 / 15																							6													
7 / 13																							3													
17 / 11																							7													
7 / 9																							10													
7 / 7																							11													
7 / 5																							4													
7 / 1																							1													
TOTAL	.6	15.9	33.6	26.6	14.3	6.2	2.2	.4	.1	.1								837	837		837	837														
Element (X)	ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX													
Rel. Hum.	3782872		54808		65.5		15.232		837		837		837		837		837		837		837		837													
Dry Bulb	1771662		37262		44.5		7.156		837		837		837		837		837		837		837		837													
Wet Bulb	1354145		33199		39.7		6.682		837		837		837		837		837		837		837		837													
Dew Point	981107		27605		33.7		9.194		837		837		837		837		837		837		837		837													

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

1 14 RAUSTEIN AB DL

1 142	RAMSTEIN AB DL
STATION	STATION NAME

73-81

YEARS

MA 3
MONT

PAGE 1

2170-2300
HOURS: 11:50 AM - 1:00 PM

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
S.E. 44

PSYCHROMETRIC SUMMARY

1 14	RAMSTEIN AB DL
STATION	STATION NAME

73-81

YEARS

243

MONIE

PAGE 1

ALL

HOURS 10, 5, 2.

[illegible]

PSYCHROMETRIC SUMMARY

73-81

YEARS

MAD
MONTH

PAGE 2

ALL
HOURS S. T.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

HOURS: 1 5 1

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

PSYCHROMETRIC SUMMARY

<u>1 14</u>	<u>RAMSTEIN AB DL</u>
STATION	STATION NAME

73-81

YEARS

APR
MONTH

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

[illegible]

PSYCHROMETRIC SUMMARY

APR
MONTH

0600-1800
HOURS L. S. T.

[illegible]

PSYCHROMETRIC SUMMARY

APR
MONTH

PAGE 1 2900-1100
HOURS (L. S. T.)

[illegible]

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

PSYCHROMETRIC SUMMARY

YEARS

ADD

MONTH

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

[illegible]

PSYCHROMETRIC SUMMARY

AR 3

HOURS 11 - 5 - 7

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

<u>1 1-</u>	<u>RAMSTEIN AB DL</u>
STATION	STATION NAME

YEARS

MONTH

1670-2700
HOURS U. S. T.

[illegible]

PSYCHROMETRIC SUMMARY

73-81

YEARS

APR
MONTH

PAGE 1 2100-2342
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				
4 / 53					.7	.4	.1											6	7						
4 / 51				.1	.4		.4											7	7						
4 / 49			.7	.1	.5	.1	.1											9	8						
4 / 57				.1	.4		.2											5	5						
5 / 55		.4		.9	.4	.5	.1											13	18	6					
4 / 53		.4	1.7	1.1	.6	.5												29	29	7					
4 / 51		1.2	2.2	1.2	.9	.2												47	47	13	7				
5 / 49		.2	2.5	1.2	.6	.2	.1											38	38	35	4				
4 / 47		2.1	2.7	2.2	1.5	.2												70	70	45	19				
4 / 45		4.1	6.3	3.5	1.1	.2	.1											124	124	72	48				
4 / 43		1.5	3.8	1.7	.6	.4												65	65	70	37				
2 / 41	.1	3.5	2.6	3.5	1.1	.1												87	87	85	61				
4 / 39		6.2	3.3	.7	.6													88	88	86	58				
3 / 37	.9	3.3	3.3	.7	.1													63	68	101	61				
4 / 35		3.1	3.6	.9														60	60	91	67				
3 / 33	.1	2.1	3.7	.7														48	48	71	68				
2 / 31		.7	.6	.1														12	12	67	62				
4 / 29		1.9	1.1															24	24	30	60				
4 / 27		.2	.2															4	4	17	63				
4 / 25																				12	48				
4 / 23																					37				
2 / 21																					19				
4 / 19																					17				
4 / 17																					11				
4 / 15																					1				
TOTAL	1.1	30.6	36.5	18.6	8.9	3.0	1.2											810	910	810	910				

Element (X)	ΣX^2	ΣX	$\bar{X}$	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4292768	57956	71.6	13.401	810	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1542874	34386	43.1	7.057	810		4.4					90
Wet Bulb	1276674	31756	39.2	6.258	810		14.0					90
Dew Point	982782	27566	34.0	7.429	810		37.8					90

0-26-5 (OL A)

UŠAFETAC

GLOBAL CLIMATOLOGY BRANCH
 SAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 14 RAMSTEIN AB DL 73-01 APP
 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														
0 / 75												.1																					9	3		
4 / 73							.7				.1	.1	.0																				17	17		
7 / 71								.0	.0	.2	.1	.2	.0																				35	35		
7 / 69								.0	.0	.1	.2	.4	.1																				55	55		
7 / 67								.0	.1	.2	.3	.2	.0																				57	57	1	
6 / 65					.0	.0	.3	.3	.5	.1																							76	76		
4 / 63		.7		.1	.1	.8	.4	.8	.4	.0																							168	168	2	
7 / 61			.1	.1	.2	.3	.5	.6	.2																								122	122	2	1
7 / 59			.1	.2	.4	.5	.7	.9	.1																								188	188	12	3
7 / 57		.7	.1	.3	.4	.5	.5	.3	.2																								146	146	19	
5 / 55		.1	.4	.7	.6	1.0	.6	.2	.0																								236	236	80	4
4 / 53	.7	.3	.8	.9	1.2	.7	.5	.2	.0																								300	300	172	21
7 / 51	.7	.7	1.7	.9	1.2	.6	.6	.1																									380	380	242	36
6 / 49	.1	.8	1.3	1.2	.6	.5	.4	.7																									328	328	356	43
7 / 47	.7	1.8	1.6	1.3	1.1	.8	.4																										444	444	440	150
4 / 45	.7	3.0	3.4	2.4	2.0	1.2	.7																										786	786	548	359
4 / 43	.1	1.3	2.7	1.6	1.7	.3																											449	449	557	275
2 / 41	.1	3.0	2.7	1.9	.7	.0																											539	539	534	277
7 / 39	.1	4.4	2.4	.9	.4																												531	531	648	493
3 / 37	.6	3.5	2.2	.5	.7																												440	441	8.2	525
7 / 35	.1	3.9	1.4	.4																													376	376	643	651
3 / 33	.2	2.4	1.3	.3																													269	269	572	689
2 / 31	.7	1.5	.5	.0																													138	138	367	473
7 / 29	.0	2.1	.6	.0																													175	175	199	557
7 / 27	.1	1.8	.3																														149	149	195	602
7 / 25	.7	.5	.1																														47	47	106	317
2 / 23	.7	.3	.0																														25	25	33	363
2 / 21																																			16	237
7 / 19																																			1	130
7 / 17																																				65
1 / 15																																				30
7 / 13																																				1
1 / 11																																				1
7 / 9																																				1
Element (X)	Σ X'		Σ X		X		X		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 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

YEARS

APR
MONTH

PAGE 7

ALL
HOURS (L. S. T.)

[illegible]

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

PSYCHROMETRIC SUMMARY

YEARS

MAY
MONTH

7070-7200
HOURS (L.S.T.)

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

PSYCHROMETRIC SUMMARY

YEARS

 MAY
MONTH

PAGE 1

5300-5500
HOURS (H. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

4 A Y
MONTH

0650-0800
HOURS: 10:30-11:00

[illegible]

PSYCHROMETRIC SUMMARY

1	14	RAMSTEIN AB DL
STATION		STATION NAME

73-91

YEARS

4 A Y
MONTH

PAGE 1 095-1142
HOURS 11.5.1.

[illegible]

PSYCHROMETRIC SUMMARY

73-81

MAY

PAGE 1 1270-1400
HOURS 11.5.10

[illegible]

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

PSYCHROMETRIC SUMMARY

YEARS

MAY
MONTH

PAGE 2 1200-1400
HOURS (L. S. T.)

[illegible]

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 147 RAMSTEIN AB DL

73-81

MAY
MONTH

PAGE 1 1570-1700
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																														
8 / 87											.1			.1			.1	.2													4	4																		
6 / 85											.1						.1	.2													4	4																		
4 / 83														.4			.4														5	6																		
2 / 81											.1	.1	.5	.5			.1														11	11																		
0 / 79												.1	.1	1.1	.8																18	18																		
7 / 77								.1	.4	.7	1.6	.5																			27	27																		
6 / 75							.1	.1	.2	1.1	1.7	.6																			32	32																		
4 / 73						.1	.2	.4	.8	3.0	.6	.6																			48	48																		
2 / 71					.2	.2	.8	1.1	1.9	1.2	.2																				47	47																		
0 / 69					.1	.8	1.7	2.2	.7	.5	1.7																				52	52	1																	
6 / 67					.1	.6	1.1	.4	.9	.7																					31	31	3																	
4 / 65			.1	.4	.6	.5	2.3	1.7	.7	.1																					53	53	9																	
2 / 63			.1	.6	1.1	3.9	2.3	2.4	1.3	.6																					103	103	16																	
0 / 61			.7	1.3	2.2	3.7	1.3	.5	.1																						76	76	37																	
6 / 59			.2	.5	2.7	1.7	1.6	2.7	.1																							80	80	52																
4 / 57		.1	.3	2.9	.8	1.7	.4	.4																								59	59	91																
2 / 55		.2	.9	1.7	1.7	.9	.7																									44	44	77																
0 / 53		.5	1.7	1.1	.8		.5																									32	32	117																
6 / 51		.7	1.6	.2	.8	.1	.2																									31	31	114																
4 / 49		.4	1.4	.1	.2	.2	.4																									23	23	97																
2 / 47		.7	.4	.4	.4	.4																										18	18	62																
0 / 45		.5	.6	1.1	.4	.2																										23	23	57																
6 / 43			.8	.2																												9	9	22																
4 / 41		.2	.2																													4	4	20																
2 / 39																																			2															
0 / 37		.2																																																
6 / 35																																																		
4 / 33																																																		
2 / 31																																																		
0 / 29																																																		
6 / 27																																																		
4 / 25																																																		
2 / 23																																																		
0 / 21																																																		
Element (X)	Σx^2					Σx					$\bar{x}$					σ_x					No. Obs.					Mean No. of Hours with Temperature						Total																		
Rel. Hum.																										$\geq 0 F$		$\geq 32 F$		$\geq 67 F$		$\geq 73 F$		$\geq 80 F$		$\geq 93 F$		Total												
Dry Bulb																																																		
Wet Bulb																																																		
Dew Point																																																		

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

PSYCHROMETRIC SUMMARY

YEARS

MAY
MONTH

PAGE 2 1500-1700
HOURS 11-5-51

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
11		3.6	3.1	2.6	2.1	1.6	1.1	0.6	0.1	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.9	27.4	27.9	28.4	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.4	35.9	36.4	36.9	37.4	37.9	38.4	38.9	39.4	39.9	40.4	40.9	41.4	41.9	42.4	42.9	43.4	43.9	44.4	44.9	45.4	45.9	46.4	46.9	47.4	47.9	48.4	48.9	49.4	49.9	50.4	50.9	51.4	51.9	52.4	52.9	53.4	53.9	54.4	54.9	55.4	55.9	56.4	56.9	57.4	57.9	58.4	58.9	59.4	59.9	60.4	60.9	61.4	61.9	62.4	62.9	63.4	63.9	64.4	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.4	71.9	72.4	72.9	73.4	73.9	74.4	74.9	75.4	75.9	76.4	76.9	77.4	77.9	78.4	78.9	79.4	79.9	80.4	80.9	81.4	81.9	82.4	82.9	83.4	83.9	84.4	84.9	85.4	85.9	86.4	86.9	87.4	87.9	88.4	88.9	89.4	89.9	90.4	90.9	91.4	91.9	92.4	92.9	93.4	93.9	94.4	94.9	95.4	95.9	96.4	96.9	97.4	97.9	98.4	98.9	99.4	99.9	100.4	100.9	101.4	101.9	102.4	102.9	103.4	103.9	104.4	104.9	105.4	105.9	106.4	106.9	107.4	107.9	108.4	108.9	109.4	109.9	110.4	110.9	111.4	111.9	112.4	112.9	113.4	113.9	114.4	114.9	115.4	115.9	116.4	116.9	117.4	117.9	118.4	118.9	119.4	119.9	120.4	120.9	121.4	121.9	122.4	122.9	123.4	123.9	124.4	124.9	125.4	125.9	126.4	126.9	127.4	127.9	128.4	128.9	129.4	129.9	130.4	130.9	131.4	131.9	132.4	132.9	133.4	133.9	134.4	134.9	135.4	135.9	136.4	136.9	137.4	137.9	138.4	138.9	139.4	139.9	140.4	140.9	141.4	141.9	142.4	142.9	143.4	143.9	144.4	144.9	145.4	145.9	146.4	146.9	147.4	147.9	148.4	148.9	149.4	149.9	150.4	150.9	151.4	151.9	152.4	152.9	153.4	153.9	154.4	154.9	155.4	155.9	156.4	156.9	157.4	157.9	158.4	158.9	159.4	159.9	160.4	160.9	161.4	161.9	162.4	162.9	163.4	163.9	164.4	164.9	165.4	165.9	166.4	166.9	167.4	167.9	168.4	168.9	169.4	169.9	170.4	170.9	171.4	171.9	172.4	172.9	173.4	173.9	174.4	174.9	175.4	175.9	176.4	176.9	177.4	177.9	178.4	178.9	179.4	179.9	180.4	180.9	181.4	181.9	182.4	182.9	183.4	183.9	184.4	184.9	185.4	185.9	186.4	186.9	187.4	187.9	188.4	188.9	189.4	189.9	190.4	190.9	191.4	191.9	192.4	192.9	193.4	193.9	194.4	194.9	195.4	195.9	196.4	196.9	197.4	197.9	198.4	198.9	199.4	199.9	200.4	200.9	201.4	201.9	202.4	202.9	203.4	203.9	204.4	204.9	205.4	205.9	206.4	206.9	207.4	207.9	208.4	208.9	209.4	209.9	210.4	210.9	211.4	211.9	212.4	212.9	213.4	213.9	214.4	214.9	215.4	215.9	216.4	216.9	217.4	217.9	218.4	218.9	219.4	219.9	220.4	220.9	221.4	221.9	222.4	222.9	223.4	223.9	224.4	224.9	225.4	225.9	226.4	226.9	227.4	227.9	228.4	228.9	229.4	229.9	230.4	230.9	231.4	231.9	232.4	232.9	233.4	233.9	234.4	234.9	235.4	235.9	236.4	236.9	237.4	237.9	238.4	238.9	239.4	239.9	240.4	240.9	241.4	241.9	242.4	242.9	243.4	243.9	244.4	244.9	245.4	245.9	246.4	246.9	247.4	247.9	248.4	248.9	249.4	249.9	250.4	250.9	251.4	251.9	252.4	252.9	253.4	253.9	254.4	254.9	255.4	255.9	256.4	256.9	257.4	257.9	258.4	258.9	259.4	259.9	260.4	260.9	261.4	261.9	262.4	262.9	263.4	263.9	264.4	264.9	265.4	265.9	266.4	266.9	267.4	267.9	268.4	268.9	269.4	269.9	270.4	270.9	271.4	271.9	272.4	272.9	273.4	273.9	274.4	274.9	275.4	275.9	276.4	276.9	277.4	277.9	278.4	278.9	279.4	279.9	280.4	280.9	281.4	281.9	282.4	282.9	283.4	283.9	284.4	284.9	285.4	285.9	286.4	286.9	287.4	287.9	288.4	288.9	289.4	289.9	290.4	290.9	291.4	291.9	292.4	292.9	293.4	293.9	294.4	294.9	295.4	295.9	296.4	296.9	297.4	297.9	298.4	298.9	299.4	299.9	300.4	300.9	301.4	301.9	302.4	302.9	303.4	303.9	304.4	304.9	305.4	305.9	306.4	306.9	307.4	307.9	308.4	308.9	309.4	309.9	310.4	310.9	311.4	311.9	312.4	312.9	313.4	313.9	314.4	314.9	315.4	315.9	316.4	316.9	317.4	317.9	318.4	318.9	319.4	319.9	320.4	320.9	321.4	321.9	322.4	322.9	323.4	323.9	324.4	324.9	325.4	325.9	326.4	326.9	327.4	327.9	328.4	328.9	329.4	329.9	330.4	330.9	331.4	331.9	332.4	332.9	333.4	333.9	334.4	334.9	335.4	335.9	336.4	336.9	337.4	337.9	338.4	338.9	339.4	339.9	340.4	340.9	341.4	341.9	342.4	342.9	343.4	343.9	344.4	344.9	345.4	345.9	346.4	346.9	347.4	347.9	348.4	348.9	349.4	349.9	350.4	350.9	351.4	351.9	352.4	352.9	353.4	353.9	354.4	354.9	355.4	355.9	356.4	356.9	357.4	357.9	358.4	358.9	359.4	359.9	360.4	360.9	361.4	361.9	362.4	362.9	363.4	363.9	364.4	364.9	365.4	365.9	366.4	366.9	367.4	367.9	368.4	368.9	369.4	369.9	370.4	370.9	371.4	371.9	372.4	372.9	373.4	373.9	374.4	374.9	375.4	375.9	376.4	376.9	377.4	377.9	378.4	378.9	379.4	379.9	380.4	380.9	381.4	381.9	382.4	382.9	383.4	383.9	384.4	384.9	385.4	385.9	386.4	386.9	387.4	387.9	388.4	388.9	389.4	389.9	390.4	390.9	391.4	391.9	392.4	392.9	393.4	393.9	394.4	394.9	395.4	395.9	396.4	396.9	397.4	397.9	398.4	398.9	399.4	399.9	400.4	400.9	401.4	401.9	402.4	402.9	403.4	403.9	404.4	404.9	405.4	405.9	406.4	406.9	407.4	407.9	408.4	408.9	409.4	409.9	410.4	410.9	411.4	411.9	412.4	412.9	413.4	413.9	414.4	414.9	415.4	415.9	416.4	416.9	417.4	417.9	418.4	418.9	419.4	419.9	420.4	420.9	421.4	421.9	422.4	422.9	423.4	423.9	424.4	424.9	425.4	425.9	426.4	426.9	427.4	427.9	428.4	428.9	429.4	429.9	430.4	430.9	431.4	431.9	432.4	432.9	433.4	433.9	434.4	434.9	435.4	435.9	436.4	436.9	437.4	437.9	438.4	438.9	439.4	439.9	440.4	440.9	441.4	441.9	442.4	442.9	443.4	443.9	444.4	444.9	445.4	445.9	446.4	446.9	447.4	447.9	448.4	448.9	449.4	449.9	450.4	450.9	451.4	451.9	452.4	452.9	453.4	453.9	454.4	454.9	455.4	455.9	456.4	456.9	457.4	457.9	458.4	458.9	459.4	459.9	460.4	460.9	461.4	461.9	462.4	462.9	463.4	463.9	464.4	464.9	465.4	465.9	466.4	466.9	467.4	467.9	468.4	468.9	469.4	469.9	470.4	470.9	471.4	471.9	472.4	472.9	473.4	473.9	474.4	474.9	475.4	475.9	476.4	476.9	477.4	477.9	478.4	478.9	479.4	479.9	480.4	480.9	481.4	481.9	482.4	482.9	483.4	483.9	484.4	484.9	485.4	485.9	486.4	486.9	487.4	487.9	488.4	488.9	489.4	489.9	490.4	490.9	491.4	491.9	492.4	492.9	493.4	493.9	494.4	494.9	495.4	495.9	496.4	496.9	497.4	497.9	498.4	498.9	499.4	499.9	500.4	500.9	501.4	501.9	502.4	502.9	503.4	503.9	504.4	504.9	505.4	505.9	506.4	506.9	507.4	507.9	508.4	508.9	509.4	509.9	510.4	510.9	511.4	511.9	512.4	512.9	513.4	513.9	514.4	514.9	515.4	515.9	516.4	516.9	517.4	517.9	518.4	518.9	519.4	519.9	520.4	520.9	521.4	521.9	522.4	522.9	523.4	523.9	524.4	524.9	525.4	525.9	526.4	526.9	527.4	527.9	528.4	528.9	529.4	529.9	530.4	530.9	531.4	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4	535.9	536.4	536.9	537.4	537.9	538.4	538.9	539.4	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.4	543.9	544.4	544.9	545.4	545.9	546.4	546.9	547.4	547.9	548.4	548.9	549.4	549.9	550.4	550.9	551.4	551.9	552.4	552.9	553.4	553.9	554.4	554.9	555.4	555.9	556.4	556.9	557.4	557.9	558.4	558.9	559.4	559.9	560.4	560.9	561.4	561.9	562.4	562.9	563.4	563.9	564.4	564.9	565.4	565.9	566.4	566.9	567.4	567.9	568.4	568.9	569.4	569.9	570.4	570.9	571.4	571.9	572.4	572.9	573.4	573.9	574.4	574.9	575.4	575.9	576.4	576.9	577.4	577.9	578.4	578.9	579.4	579.9	580.4	580.9	581.4	581.9	582.4	582.9	583.4	583.9	584.4	584.9	585.4	585.9	586.4	586.9	587.4	587.9	588.4	588.9	589.4	589.9	590.4	590.9	591.4	591.9	592.4	592.9	593.4	593.9	594.4	594.9	595.4	595.9	596.4	596.9	597.4	597.9	598.4	598.9	599.4	599.9	600.4	600.9	601.4	601.9	602.4	602.9	603.4	603.9	604.4	604.9	605.4	605.9	606.4	606.9	607.4	607.9	608.4	608.9	609.4	609.9	610.4	610.9

USAFETAC
FORM
JAN 49
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

YEARS

4 A Y
MONIE

PAGE 1 1870-000
HOURS 14.5.7

[illegible]

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

PSYCHROMETRIC SUMMARY

73-81

YEARS

MAY
MONTH

PAGE 2 1620-201C
HOURS 11, 5, T.

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 100 RAYSTEIN AB DL

73-61

PAGE 1

21 6-23

HOURS

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 / 49				.1	.4					.1																							5	5				
1 / 67				.2				.2	.2	.4																							9	9				
6 / 65				.1	.1	.4	.1																										6	6	2			
4 / 67		.5	.4	.6	.5	1.1	.4	.2	.1																								72	32	5			
1 / 61		.4	.2	1.2	1.3	1.3	.4	.4																									38	38	6	5		
1 / 69		.2	1.3	1.9	2.0	.6	.2																										53	53	10	6		
1 / 57	.4	.7	3.1	2.8	1.2	.8	.2	.2																									79	79	25			
5 / 55		1.6	3.5	4.7	.8	1.1	.5																										101	101	71			
4 / 53	.1	1.2	4.5	3.1	1.0	.2	.1																										85	86	81	17		
1 / 51	.1	2.4	6.2	2.5	1.2	.4	.2																										109	109	90	55		
5 / 49		1.1	3.7	.8	.4	.2																												45	45	129	37	
1 / 47	.2	3.6	3.2	1.6	.8	.2																												81	81	100	81	
4 / 45	.5	3.3	3.7	1.7	.5	.1																												82	82	101	157	
4 / 43		1.2	1.6	1.3	.1																													35	35	75	1.1	
1 / 41		1.3	1.1	1.0	.1																													29	29	53	87	
1 / 39		.8	1.3	.4																															21	21	37	57
1 / 37	.5	.6	.2																																11	11	29	55
1 / 35	.1	1.1	.2																																12	12	25	48
3 / 33		.2																																	2	2	15	27
1 / 31																																					2	27
1 / 29																																						31
1 / 27																																						3
1 / 25																																						3
1 / 23																																						3
TOTAL	1.0	2.0	1.3	4.1	2.3	7.1	0.3	6.6	2.4	.8	.1																							836	836	876	836	

Element (X)	Σx'	Σx	Σ	Σ ²	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4461.24	6200.4	71.8	13.591	836	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	23740.55	4351.7	52.1	6.8.0	836			1.6				93
Wet Bulb	17115.4	3966.6	47.4	5.939	836			.2				93
Dew Point	15675.62	3571.2	42.7	7.095	836		9.7					93

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

Element (X)	Σx^2	Σx	$\bar{x}$	s^2	No. Obs.	Mean No. of Hours with Temperature						Total
Ref. Num.	446124	60004	71.8	13.591	836	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	234055	43517	52.1	6.80	836			1.6				93
Wet Bulb	191154	39666	47.4	5.939	836			.2				93
Dew Point	1567562	35712	42.7	7.095	836		9.7					93

PSYCHROMETRIC SUMMARY

MAY
MONTH

PAGE 1

ALL
HOURS 11-5 P.M.

[illegible]

PSYCHROMETRIC SUMMARY

73-51

MAY
MONTH

STATION

STATION NAME

YEARS

PAGE 2

ALL
HOURS U.S.T.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

JUN
MON

PAGE 1 000-2240
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														
7 / 77							.1											1	1																
4 / 71							.1											1	1																
1 / 71					.2													2	2																
1 / 69					.5	.1	.1											5	5																
1 / 67					.1	.2	.2											5	5																
6 / 65		.5	.2	.4	.1													17	12	2															
4 / 64	.1	2.7	1.7	3.1	.2													64	64	10															
1 / 61		2.7	3.6	2.6														72	72	34	12														
1 / 59	.1	2.6	5.8	1.9	.1													85	65	49	29														
1 / 57	.9	4.8	4.7	2.2	.1													103	103	174	48														
5 / 55	.1	5.3	3.8	2.1	.2													93	93	92	74														
4 / 53	.5	3.8	3.6	1.6	.1													78	78	178	177														
1 / 51	.6	3.1	5.6	.4	.1													79	79	78	109														
6 / 47	.6	2.3	2.7	.1	.1													48	48	83	71														
1 / 47	.6	5.1	.5	.2	.5	.1												57	57	87	75														
4 / 45	.6	4.7	.7	.6	.2													56	56	59	109														
4 / 43	.4	2.3	.1	.5														27	27	46	67														
2 / 41	.5	.7		.6														15	15	31	48														
4 / 37	.1		.1	.1														3	3	10	18														
1 / 35			.1	.1														2	2	6	4														
3 / 33			.2															2	2	5	8														
2 / 31																				2	5														
1 / 27																					6														
1 / 25																					5														
1 / 23																					2														
TOTAL	.24	.93	3.61	6.6	3.0	.5	.4											809	809	609	809														

PSYCHROMETRIC SUMMARY

YEARS

JUL
MON

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

USAFETAC

1 14 RAMSTEIN AB DL
STATION STATION NAME

YEARS

22 MONTH

PAGE 1

67-2822

U.S. SAFETY FORM 0-26-5 (OL A) REVISÉD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

73-81

YEARS

JUN
MONTH

HOURS L. S. T.

[illegible]

LOCAL CLIMATOLOGY BRANCH
AFETAC
A WEATHER SERVICE /MAC

PSYCHROMETRIC SUMMARY

1 1-0 ANSTEIN AB DL 73-81 73-81
STATION STATION NAME YEARS
PAGE 1 1973-11-12
MONTH
HOURS 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

PSYCHROMETRIC SUMMARY

1 1- RAMSTEIN AB GL

73-81

2004

STATION

STATION NAME

YEARS

PAGE 1

1200 1400
HOURS L. S. T.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

۱۲۹۵
۱۳۹۵

PAGE 2 1200-1400
HOURS

[illegible]

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

PSYCHROMETRIC SUMMARY

PAGE 1 1570-1700
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
7 / 97																																	.1	1	1	
7 / 96																										.1	.4						.5	8	6	
7 / 95																									.1	.2		.1						4	4	
7 / 94																									.5	.5								8	8	
7 / 93																							.1	.2										3	3	
7 / 92																							.2											2	2	
7 / 91																			.1	.5	.1												6	6		
7 / 90															.2	1.0	.7	.2															18	18		
7 / 89													.2	.5	1.2	2.8	.2																41	41		
7 / 88										.1	.1	.9	2.0	.5	.9	.2																	38	38		
7 / 87										.1	1.2	2.6	2.1	.7	.1																		56	56		
7 / 86								.1	.1	1.6	2.2	.9	.5	.4	.1																		49	43		
4 / 85					.1	.1		2.7	.9	1.0	.2	.6																					46	46		
7 / 84				.1	.7	.6	1.0	1.7	1.4	.2																							54	54	1	
7 / 83			.1	.6	.7	.7	3.3	1.1	2.0	.5																							74	74	6	
7 / 82			.4	.6	2.0	2.3	.7	.2																									48	48	73	
6 / 81			.1	.5	.6	1.2	1.5	.9	1.1	.2	.4																						53	53	70	
4 / 80	.1	.9	.6	2.3	1.6	5.4	2.7		.2																								107	107	89	
7 / 79	.4	.2	.5	1.6	1.9	2.0		.2																									55	55	98	
7 / 78		.2	1.5	.7	1.7	.9	.2																										43	43	80	
7 / 77		.7	.5	2.5	.9	.1	.4	.5																									45	45	94	
5 / 76		.2	.7	1.1	.6	.2	.2																										26	26	102	
4 / 75		.1	.2	.4	.2	.1																											9	9	97	
2 / 74		.6	.6	.1	.1																												12	12	69	
5 / 73	.1	.1	.1	.2																													5	5	30	
7 / 72																																			22	89
4 / 71																																			9	108
4 / 70																																			8	67
2 / 69																																				38
7 / 68																																				15
7 / 67																																				13
7 / 66																																				5
3 / 65																																				4
2 / 64																																				4
Element (X)	Σx'		Σx		x̄		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																																				

PSYCHROMETRIC SUMMARY

YEARS

JUN
MONTH

PAGE 2 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. Wet Bulb	Wet Bulb Dew Point																
1																																			
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			
13																																			
14																																			
15																																			
16																																			
17																																			
18																																			
19																																			
20																																			
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31																																			
32																																			
33																																			
34																																			
35																																			
36																																			
37																																			
38																																			
39																																			
40																																			
41																																			
42																																			

Element (X)	Z _K ¹	Z _K	X	σ _X	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2427724	42427	52.4	15.964	810	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	3733751	55953	69.1	9.164	810			50.6	31.0	12.3	1.4	90
Wet Bulb	2752272	47002	58.7	5.538	810			4.7				90
Dew Point	2027266	40187	49.6	6.496	810		1.7					90

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 JUN 73-81 RAMSTEIN AB DL

73-81

JUN
MONTH

PAGE 1

1870-2700
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														
67/35																	.1	1	1																
7/33														.1	.1	.1		3	3																
7/31														.1	.5			5	5																
7/29													.6	.2				7	7																
8/27												.4						3	3																
8/25											.1	.1						2	2																
4/23											.4							5	5																
7/21									1.1	1.1								18	18																
7/19								.7	1.4	.4	.1							21	21																
7/17							1.2	2.2	1.5	.5								47	47																
7/15						.5	2.1	1.7	.2									37	37																
7/13				.1	.4	.9	2.7	.7	.6	.1	.1							40	40																
7/11				.5	.9	.1	1.7	1.2	.4	.2								41	41																
7/9			.5	1.2	.6	3.2	1.5	1.6	.2	.1								69	69		2														
7/7		.1	.6	.1	.9	1.4	1.7	.2	.2	.1								44	44	15															
6/25		.2	1.9	.7	3.7	1.5	2.1	.4	.1	.1								31	31	63	1														
4/23		.9	.9	3.5	3.5	3.8	1.1	.9	.4									121	121	27	12														
7/21		.5	1.5	1.9	3.5	1.6	.5		.1									77	77	75	27														
7/19	.2	.9	.9	1.1	2.8	.6		.1										54	54	90	30														
7/17		.2	1.1	2.7	1.6	.1		.1										48	48	100	47														
5/25		1.2	1.5	1.4	.9	.6	.1											46	46	94	66														
7/23		.2	.6	.6	.2	.5	.1											19	19	97	103														
7/21	.4	.7	1.7	.1	.1	.1												20	20	96	117														
5/19		.4	.1	.2														5	6	35	69														
7/17		.1	.1															2	2	29	68														
4/15																				11	128														
4/13																				8	62														
2/11																				2	29														
7/19																					19														
3/17																					5														
7/15																					3														
3/13																					9														
7/11																					3														
7/9																					7														
Element (X)	Σ x ²					Σ x					x̄					σ _x					No. Obs.					Mean No. of Hours with Temperature					Total				
Rel. Hum.																																			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

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

PSYCHROMETRIC SUMMARY

YEARS

[illegible]

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 147 RAMSTEIN AB DL
STATION STATION NAME

73-81
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														
47 / 57										.1	.2							3	3																
47 / 55										.1								1	1																
47 / 53								.1			.2							3	3																
47 / 51									.1									3	3																
47 / 49						.1	.4	.9										8	8																
47 / 47						.1	1.1	.1										11	11																
47 / 45							.5											9	9																
47 / 43				.5	1.4	.7		.1										22	22																
47 / 41			.6	.2	.7	.4												16	16																
47 / 39		.2	1.7	1.7	1.1	.1												34	34	7															
47 / 37	.1	3.8	2.1	6.7	2.2	.2												123	123	35	4														
47 / 35	.2	.7	3.7	3.5	1.6	.7	.2											87	87	73	29														
47 / 33	.4	1.2	5.6	3.7	1.5	.4	.1	.1										99	99	58	43														
47 / 31	.1	3.7	2.3	3.6	.9	.2												106	106	106	46														
47 / 29	.4	1.2	3.5	2.2	.2													82	82	109	77														
47 / 27	.4	1.5	4.2	.6	1.7	.1												63	63	97	105														
47 / 25		1.2	1.9															25	25	97	57														
47 / 23	.2	1.7	.9	.2	.4	.1												29	29	72	62														
47 / 21	.2	1.1		.1	.2													14	14	36	140														
47 / 19	.1	.5		.1														6	6	19	38														
47 / 17		.1		.2														3	3	7	45														
47 / 15																				3	6														
47 / 13																				2	5														
47 / 11																				4	4														
47 / 9																				4	4														
47 / 7																				4	4														
47 / 5																				4	4														
47 / 3																				4	4														
47 / 1																				4	4														
47 / 0																				4	4														
TOTAL	.4	18.93	.2	26.7	12.8	1.0	2.7	1.0	.1	.2	.5							610	610	610	810														

Element (X)	ΣX ²	ΣX	$\bar{X}$	σ^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4578118	59964	74.0	13.118	810	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	234100	47606	58.8	6.686	810			6.4	3.2	.3		97
Wet Bulb	2389191	43763	54.0	5.531	810							97
Dew Point	2365628	40584	50.1	6.311	810		1.4					97

PSYCHROMETRIC SUMMARY

1 14	RAMSTEIN AB DL	73-01	JUN
STATION	STATION NAME	YEARS	MONTH

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

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

PAGE 7

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

HOURS: 11:50

USAFETAC
FORM
A4 4-4
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

YEARS

JUL
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	
1 / 59			.2	.1														3	3			
1 / 67			.4		.1													4	4			
6 / 65		.2	.1	.8														10	10	5		
4 / 63	.2	1.2	2.3	2.2	.1	.2												52	52	11	7	
1 / 61	.6	1.7	3.6	1.4	.7	.5												71	71	24	15	
1 / 59	.5	3.8	4.9	2.7	.1													95	95	44	27	
1 / 57	.5	5.7	3.5	1.6	.2													96	96	48	44	
5 / 55	.4	5.6	6.8	2.7	1.													138	138	97	74	
4 / 53	.5	4.4	6.9	1.1	.2													110	110	114	104	
2 / 51	1.3	4.3	2.7	.6	.5													80	80	133	107	
1 / 49	.4	2.9	2.9	.2														53	53	112	69	
1 / 47	.5	5.1	.8	.1														95	95	94	115	
1 / 45	.5	3.1	.4	.5														41	41	77	114	
4 / 43	.4	.8	.5															14	14	16	85	
1 / 41	.1	.7	.1															8	8	15	31	
4 / 39	.2	.1	.2															5	5	11	18	
1 / 37	.2																	2	2	2	13	
1 / 35																					4	
3 / 33																					3	
2 / 31																					7	
TOTAL	.54	.036	.213	.4	3.1	.7												837	837	937	937	

USAFETAC
FORM
MAY 64
0-26.5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

YEARS

JUL
MONTA

PAGE 1 0600-0800
HOURS 11-5 P.M.

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

UŞAFETAC

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 7900-1100
HOURS U. S. T.

[illegible]

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

PSYCHROMETRIC SUMMARY

73-81

YEARS

JUL
MONIN

PAGE : 1200-14-2
HOURS : 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														
1 / 47													.1	.5	.6			17	17																
1 / 48												.2	.4	.6	.1			11	11																
1 / 49											.1	.1	.1		.1			3	3																
1 / 50									.1	.2	.1	.2	.1					7	7																
5 / 37						.1	.1	.4	.6	.1	.1							12	12																
6 / 38									.5	.4	.4							12	12																
7 / 39						.6	.6	1.0	.4	.2								23	23																
7 / 40				.1	.1	.1	.1	1.1	2.2	1.8	.1	.1	.1					55	55																
7 / 41						.4	.2	1.0	1.2	1.2	.4							44	44																
7 / 42						.4	1.3	1.4	1.1	.4	.1							39	39																
1 / 75					.7	.2	1.7	2.5	.5									53	53																
1 / 76				.4	1.1	1.0	2.5	1.4	.7									56	56																
1 / 77				.2	1.1	1.6	2.7	1.6	.2									63	63																
1 / 78				.3	.5	1.1	1.9	.5	1.7	.2								49	49	36															
5 / 67				.1	1.2	1.9	2.5	.4	.2									53	53	56															
6 / 68		.4	.5	1.0	1.7	1.7	2.5	.2										63	63	91															
6 / 69		.6	1.3	2.0	2.4	5.3	1.7	.2										107	107	60	24														
7 / 70	.1	.6	2.5	.8	2.3	1.2	.5											67	67	105	4														
7 / 71	.1	1.2	1.1	1.6	1.8	.2												57	57	116	63														
7 / 72	.1	.1	1.1	1.1	.6	.1												26	26	98	92														
5 / 55		.7	.6	.6	.5	.2												22	22	82	89														
5 / 56		.2	.1	.4														6	6	102	105														
1 / 51		.1																1	1	35	97														
1 / 52																				18	61														
1 / 47																				10	65														
4 / 45																				2	115														
4 / 43																					38														
2 / 41																					15														
2 / 39																					10														
1 / 37																					5														
1 / 35																					1														
TOTAL	.4	3.0	3.7	9.4	14.6	16.0	16.4	12.4	7.2	5.3	2.2	1.3	1.1	1.2	.5			837	837	957	957														

Element (X)	Z _K ¹	Z _K	X	σ _X	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	722100	45450	54.9	15.448	837	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	4212226	58292	70.3	9.147	837			54.4	36.1	17.1	2.3	93
Wet Bulb	319394	50064	59.8	5.456	837			11.7	.3			93
Dew Point	2314482	43728	52.2	5.987	837			.2	.1			93

USAFETAC
FORM
R.R. 44
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

PAGE 1 JUL MONTH 1570-1700 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											
7 / 97																.2		2	2													
6 / 95															1.7	.2		17	17													
7 / 92												.7		.1	.4			6	6													
7 / 91											.1		.5		.1			6	6													
7 / 89										.4	.6	.4		.1				12	12													
6 / 87									.2	.1	.7	.7	.1					16	16													
7 / 85									.4	.7	.8	.4						19	19													
7 / 82								.6	1.1	1.6	1.1	.6						41	41													
7 / 81					.7		.7	1.8	2.4	.7	.4	.2						54	54													
7 / 79						.5		1.8	1.2	.8								36	36													
7 / 77					.1		1.1	1.9	2.0	1.2								53	53													
6 / 75				.1	.1	1.2	1.1	2.7	1.1									53	53													
4 / 73				.4	.5	.8	3.0	1.9	.6									67	67													
7 / 71			.1	.2	1.3	1.1	2.4	1.6	.6	.4								64	64	13												
7 / 69			.4	.4	.6	1.8	1.5	2.3	.1									59	59	78	2											
7 / 67			.2	.2	1.4	1.7	2.4	.2	.1									47	47	69												
6 / 65		.1	.7	1.4	1.7	.9	2.4	.4										57	57	78	5											
4 / 63		.7	1.8	2.9	1.2	5.6	.5	.1										108	108	95	24											
7 / 61		.1	1.7	1.4	1.7	1.7	.2											51	51	101	25											
7 / 59		1.2	1.2	.8	1.6	.4												43	43	110	69											
7 / 57		.2	.6	1.7	.1	.1												17	17	92	84											
5 / 55		.5	.5	.6	.7													19	19	97	104											
4 / 53			.1		.4													4	4	76	99											
7 / 51																				32	76											
5 / 49																				12	77											
7 / 47																				10	75											
4 / 45																					14											
4 / 43																					37											
7 / 41																					41											
7 / 39																					16											
7 / 37																					1											
7 / 35																					3											
TOTAL	2.9	7.3	9.4	10.9	14.2	14.7	14.2	9.2	7.5	4.1	2.6	.8	.2	1.4	.5			837	837	837	837											
																		837		837												
Element (X)	Σx'		Σx		Σ		Σ _s		No. Obs.		Mean No. of Hours with Temperature																					
Rel. Hum.	2497336		43794		52.315.694		937		≥ 0 F		≥ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total											
Dry Bulb	4366750		59958		71.69.263		837						59.8		47.9		20.2		2.0		93											
Wet Bulb	3553614		50364		60.25.258		837						12.4		.2						93											
Dew Point	2295345		43559		52.05.855		837						.2								93											

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 JUL
MONTH
1870-201
HOURS 11.5.1

[illegible]

PSYCHROMETRIC SUMMARY

73-21

YEARS

MONTH

PAGE 1 2175-2300
HOURS 11.5.11

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 / 73									.1									2	2																
7 / 75										.4	.1							4	4																
7 / 77						.1		.2	.4									3	3																
7 / 79					.1	.6	.5	.2	.1									11	11																
4 / 75					.7	.4	.5	.4										13	13																
7 / 71			.1	.2	1.0	.6	.7		.1									16	16																
7 / 69			1.1	.3	1.3	1.3	.1	.1										23	23																
7 / 67		.1	1.6	.4	2.2	.4	.1											44	44																
6 / 65		.4	1.7	1.2	1.2	.5	.1											39	39	13															
4 / 63		2.4	3.3	6.8	2.7	1.3	.1											42	42	33	4														
7 / 61		2.2	5.6	3.7	2.7	.2												144	144	57	7														
7 / 59		3.6	6.7	2.4	1.1	.1												109	109	69	37														
7 / 57		2.0	3.7	3.9	1.2													110	110	95	61														
5 / 55	.4	2.9	3.2	2.2	.8													91	91	158	83														
4 / 53	.4	1.6	3.2	1.8	1.0													79	79	171	117														
2 / 51	.2	1.1	1.9	.1	.1													56	56	172	121														
2 / 49		.4	.4	.1														39	39	172	112														
7 / 47		.1	.4															7	7	58	42														
4 / 45		.1																4	4	41	91														
4 / 43																		1	1	0	94														
4 / 41																				5	55														
4 / 39																					15														
5 / 37																					3														
5 / 35																					3														
TOTAL	1.0	16.7	32.6	23.1	5.9	5.1	2.2	1.1	.7	.5	.1	.1						837	837	837	937														

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

PSYCHROMETRIC SUMMARY

YEARS

 JUL
MONTH

PAGE 1

ALL
HOURS L. S. T.

[illegible]

PSYCHROMETRIC SUMMARY

73-61

YEARS

JUL
MONTH

PAGE 2

ALL
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										
10	.16	.23	.27	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	.81	.86	.91	.96	56.96	56.96	56.96	56.96										
11	.15	.22	.26	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	56.95	56.95	56.95	56.95										
12	.14	.21	.25	.29	.34	.39	.44	.49	.54	.59	.64	.69	.74	.79	.84	.89	.94	56.94	56.94	56.94	56.94										
13	.13	.20	.24	.28	.33	.38	.43	.48	.53	.58	.63	.68	.73	.78	.83	.88	.93	56.93	56.93	56.93	56.93										
14	.12	.19	.23	.27	.32	.37	.42	.47	.52	.57	.62	.67	.72	.77	.82	.87	.92	56.92	56.92	56.92	56.92										
15	.11	.18	.22	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	.81	.86	.91	56.91	56.91	56.91	56.91										
16	.10	.17	.21	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	56.90	56.90	56.90	56.90										
17	.09	.16	.20	.24	.29	.34	.39	.44	.49	.54	.59	.64	.69	.74	.79	.84	.89	56.89	56.89	56.89	56.89										
18	.08	.15	.19	.23	.28	.33	.38	.43	.48	.53	.58	.63	.68	.73	.78	.83	.88	56.88	56.88	56.88	56.88										
19	.07	.14	.18	.22	.27	.32	.37	.42	.47	.52	.57	.62	.67	.72	.77	.82	.87	56.87	56.87	56.87	56.87										
20	.06	.13	.17	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	.81	.86	56.86	56.86	56.86	56.86										
21	.05	.12	.16	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	56.85	56.85	56.85	56.85										
22	.04	.11	.15	.19	.24	.29	.34	.39	.44	.49	.54	.59	.64	.69	.74	.79	.84	56.84	56.84	56.84	56.84										
23	.03	.10	.14	.18	.23	.28	.33	.38	.43	.48	.53	.58	.63	.68	.73	.78	.83	56.83	56.83	56.83	56.83										
24	.02	.09	.13	.17	.22	.27	.32	.37	.42	.47	.52	.57	.62	.67	.72	.77	.82	56.82	56.82	56.82	56.82										
25	.01	.08	.12	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	.81	56.81	56.81	56.81	56.81										
26	.00	.07	.11	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	56.80	56.80	56.80	56.80										
27	.00	.06	.10	.14	.19	.24	.29	.34	.39	.44	.49	.54	.59	.64	.69	.74	.79	56.79	56.79	56.79	56.79										
28	.00	.05	.09	.13	.18	.23	.28	.33	.38	.43	.48	.53	.58	.63	.68	.73	.78	56.78	56.78	56.78	56.78										
29	.00	.04	.08	.12	.17	.22	.27	.32	.37	.42	.47	.52	.57	.62	.67	.72	.77	56.77	56.77	56.77	56.77										
30	.00	.03	.07	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	56.76	56.76	56.76	56.76										
31	.00	.02	.06	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	56.75	56.75	56.75	56.75										
32	.00	.01	.05	.09	.14	.19	.24	.29	.34	.39	.44	.49	.54	.59	.64	.69	.74	56.74	56.74	56.74	56.74										
33	.00	.00	.04	.08	.13	.18	.23	.28	.33	.38	.43	.48	.53	.58	.63	.68	.73	56.73	56.73	56.73	56.73										
34	.00	.00	.03	.07	.12	.17	.22	.27	.32	.37	.42	.47	.52	.57	.62	.67	.72	56.72	56.72	56.72	56.72										
35	.00	.00	.02	.06	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	56.71	56.71	56.71	56.71										
36	.00	.00	.01	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	56.70	56.70	56.70	56.70										
37	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	.44	.49	.54	.59	.64	.69	56.69	56.69	56.69	56.69										
38	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	.43	.48	.53	.58	.63	.68	56.68	56.68	56.68	56.68										
39	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	.42	.47	.52	.57	.62	.67	56.67	56.67	56.67	56.67										
40	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	56.66	56.66	56.66	56.66										
41	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	56.65	56.65	56.65	56.65										
42	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	.44	.49	.54	.59	.64	56.64	56.64	56.64	56.64										
43	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	.43	.48	.53	.58	.63	56.63	56.63	56.63	56.63										
44	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	.42	.47	.52	.57	.62	56.62	56.62	56.62	56.62										
45	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	56.61	56.61	56.61	56.61										
46	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	56.60	56.60	56.60	56.60										
47	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	.44	.49	.54	.59	56.59	56.59	56.59	56.59										
48	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	.43	.48	.53	.58	56.58	56.58	56.58	56.58										
49	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	.42	.47	.52	.57	56.57	56.57	56.57	56.57										
50	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	56.56	56.56	56.56	56.56										
51	.00	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	56.55	56.55	56.55	56.55										
52	.00	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	.44	.49	.54	56.54	56.54	56.54	56.54										
53	.00	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	.43	.48	.53	56.53	56.53	56.53	56.53										
54	.00	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	.42	.47	.52	56.52	56.52	56.52	56.52										
55	.00	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	.41	.46	.51	56.51	56.51	56.51	56.51										
56	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	56.50	56.50	56.50	56.50										
57	.00	.00	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	.44	.49	56.49	56.49	56.49	56.49										
58	.00	.00	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	.43	.48	56.48	56.48	56.48	56.48										
59	.00	.00	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	.42	.47	56.47	56.47	56.47	56.47										
60	.00	.00	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	.41	.46	56.46	56.46	56.46	56.46										
61	.00	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	.40	.45	56.45	56.45	56.45	56.45										
62	.00	.00	.00	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	.44	56.44	56.44	56.44	56.44										
63	.00	.00	.00	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	.43	56.43	56.43	56.43	56.43										
64	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	.42	56.42	56.42	56.42	56.42										
65	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	.41	56.41	56.41	56.41	56.41										
66	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	.40	56.40	56.40	56.40	56.40										
67	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	.39	56.39	56.39	56.39	56.39										
68	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	.38	56.38	56.38	56.38	56.38										
69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	.37	56.37	56.37	56.37	56.37										
70	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	.36	56.36	56.36	56.36	56.36										
71	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	.35	56.35	56.35	56.35	56.35										
72	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	.34	56.34	56.34	56.34	56.34										
73	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	.33	56.33	56.33	56.33	56.33										
74	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	.32	56.32	56.32	56.32	56.32										
75	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	.31	56.31	56.31	56.31	56.31										
76	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15	.20	.25	.30	56.30	56.30	56.30	56.30										
77	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.09	.14	.19	.24	.29	56.29	56.29	56.29	56.29										
78	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.08	.13	.18	.23	.28	56.28	56.28	56.28	56.28										
79	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.12	.17	.22	.27	56.27	56.27	56.27	56.27										
80	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.11	.16	.21	.26	56.26	56.26	56.26	56.26										
81	.00	.00	.00	.00	.00	.00	.00	.00</																							

PSYCHROMETRIC SUMMARY

73-81

YEARS

403
MONTH

PAGE 1

0000-0240
HOURS: 11:55 AM

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			
4 / 72						.1	.1											7	2					
/ 71						.1												1	1					
/ 69			.1	.1	.1	.5												7	7					
/ 67			.2	.7	.5		.1											12	13					
6 / 65		.4	1.3	.6	.4	.2												24	24	2	1			
4 / 63	.1	2.5	3.7	2.9	.6	.4	.1											66	86	14	2			
4 / 61	.9	2.6	5.5	4.1	1.	.1												118	118	62	24			
/ 59	.2	3.9	7.7	1.0	.6													107	137	66	45			
/ 57	.5	5.6	6.1	1.3	.4													116	116	137	64			
5 / 55	1.4	6.6	5.6	.8														121	121	136	104			
4 / 53	1.3	3.8	5.7	.5	.2													91	91	136	161			
/ 51	.5	1.8	4.1	.1	.1													55	55	173	121			
5 / 49	.6	1.8	1.7	.1	.2													37	27	63	87			
/ 47	.1	1.6	.5	.1														19	19	57	65			
4 / 45	.7	1.7	.7	.1														21	21	32	72			
4 / 43	.1	.5	.7	.1														12	12	13	24			
2 / 41		.4	.1	.1														5	5	10	21			
4 / 39		.1		.1														2	2	8	5			
3 / 37																				3	11			
/ 35																				1	7			
3 / 33																					2			
2 / 31																					1			
/ 29																					1			
/ 27																					1			
/ 25																					1			
TOTAL	.5	32.5	42.4	12.8	4.1	1.4	.4												837	837	937	937		

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	572094	68562	81.9	10.137	837	≤ 0 +	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2753670	47788	57.1	5.495	837			2.6	.2			93
Wet Bulb	2461841	45195	54.0	5.068	837							93
Dew Point	2243954	43084	51.5	5.602	837		.6					93

USAFETAC
FORM
MIL 94
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

YEARS

AUG
MONTH

PAGE 1 0370-0540
HOURS 11.5.1

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 / 59																		1	1																						
2 / 67																		1	1																						
3 / 55			.2	.6	.4	.2												12	12	2																					
4 / 63		1.8	2.2	1.7	.2	.2												53	53	1																					
1 / 61	.7	1.9	4.3	1.3	.6													74	74	37	15																				
1 / 59	1.	3.8	5.4	1.3	.1													97	97	49	35																				
1 / 57	.7	6.9	4.7	1.7		.1												113	114	89	46																				
5 / 55	.6	4.5	6.5	.6	.2													104	104	116	89																				
4 / 57	1.6	3.3	4.1	.1														76	76	119	100																				
1 / 51	2.4	3.7	4.8															91	91	124	117																				
1 / 4	1.	3.9	2.3															63	63	98	84																				
1 / 47	.6	3.3	1.1	.1	.1													44	44	75	69																				
4 / 45	1.	3.3	1.8	.1	.4													55	55	49	113																				
4 / 43	.6	1.6	.5	.2														24	24	32	57																				
2 / 41	.4	.5	.1	.1														9	9	24	34																				
1 / 3		1.1	.4															12	12	9	17																				
1 / 37	.2	.1		.2														5	5	15	17																				
1 / 35				.1														1	1	5	9																				
3 / 53																																									
1 / 31																																									
1 / 29																																									
1 / 27																																									
1 / 25																																									
2 / 21																																									
TAL	12.	40.	139.5	8.2	2.2	.4												837	857	837	827																				

PSYCHROMETRIC SUMMARY

AUG.
MONTH

PAGE 1 7600-3342
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														
1 / 75																		1	1																
4 / 73					.1													1	1																
1 / 71					.4	.1	.1											5	5																
1 / 69				.2	.4													5	5																
6 / 67			.4	.1	.5	.1												9	9																
6 / 65		.2	.5	1.7	.4													17	17	4															
4 / 63	.1	2.5	3.4	4.1	.8	.5												95	96	12	6														
1 / 61	.5	2.3	5.8	3.5	.5		.2											106	106	49	13														
1 / 59	.8	3.4	7.8	1.6	.7	.1												122	127	73	44														
1 / 57	.6	5.2	5.9	1.4	.1	.1												111	111	110	77														
5 / 55	.4	4.8	5.6	1.7														104	104	146	97														
4 / 53	.8	3.4	3.1	.8	.1													69	69	118	127														
7 / 51	.3	3.3	3.3		.1													55	55	174	127														
4 / 49	.5	1.8	1.9															35	35	77	65														
1 / 47	.6	2.3	.7	.1														31	31	58	79														
4 / 45	.6	2.6	1.7	.1	.2													38	38	75	85														
4 / 43	.1	.8	.2	.1														11	11	15	46														
2 / 41	.2	.8	.1															10	17	14	21														
1 / 39	.1	.5	.2	.1														8	8	8	15														
1 / 37		.1	.1															2	2	7	7														
1 / 35																				3	5														
3 / 33		.1																1	1	3	4														
2 / 31																					4														
1 / 29																					3														
1 / 27																					2														
TAL	5.2	33.8	39.7	14.9	4.3	1.1	.4												834		834														

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0^\circ F$	$\leq 32^\circ F$	$\leq 67^\circ F$	$\leq 73^\circ F$	$\leq 80^\circ F$	$\leq 93^\circ F$	Total
Rel. Hum.	56313.5	68.01	81.5	10.207	834							
Dry Bulb	2698688	4719	56.5	6.170	835			2.3	.2			93
Wet Bulb	2400512	44506	53.4	5.530	834							93
Dew Point	2177442	42332	50.8	5.876	834		1.0					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 14 RAMSTEIN AB DL 73-81 AUG
STATION MONTH
STATION NAME YEARS
PAGE 1 2900-1110
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													
5 / 47											.1								1												1				
6 / 48											.2	.1							3												3				
7 / 49								.1			.2								3												3				
8 / 50							.1	.7		.3	.4								17												17				
9 / 51						.5	.1	.7	.6										14												14				
10 / 52					.1	.5	1.8	.8	.6	.4									35												35				
11 / 53				.1	.6	.6	2.7	1.1	.1										37												37				
12 / 54			.1	.7	.7	1.7	2.2	.8											52												52				
13 / 55			.4	.7	1.4	1.4	1.7	.7	.1										51												51				
14 / 56			.6	.7	2.9	3.2	.5	.5											70												70	9			
15 / 57		.1	.8	1.6	2.3	1.6	.6	.1											59											59	38	1			
16 / 58		.2	2.2	4.3	2.8	1.1	.1												69											69	55	7			
17 / 59	.4	1.4	3.7	8.0	4.1	2.3	.2	.1											163											164	92	17			
18 / 60		1.4	2.9	3.5	1.5	1.1	.1												90											90	120	38			
19 / 61	.1	.7	3.6	2.5	.7	.4													67											67	151	85			
20 / 62		1.7	2.6	1.1	.4	.2													44											44	130	99			
21 / 63	.1	1.2	.8	1.0	.1	.1													28											28	101	148			
22 / 64		.5	.2	.1															7											7	79	11			
23 / 65		.1																	2											2	32	127			
24 / 66		.2			.1														3											3	3	19	59		
25 / 67																																6	61		
26 / 68																																2	47		
27 / 69																																1	16		
28 / 70																																	17		
29 / 71																																	2		
30 / 72																																	2		
31 / 73																																	1		
TOTAL	.4	6.3	17.6	24.3	18.2	14.4	9.1	5.7	2.3	1.2	.2								835											837		835			

Element (X)	Σ x ²	Σ x	X	x _s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3724343	54631	65.4	13.4	835	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	
Dry Bulb	3712765	55461	66.3	6.664	837			38.7	18.7	3.6		93
Wet Bulb	2928674	49374	59.7	4.563	835			5.2				93
Dew Point	2435457	44897	53.8	5.153	835			.2				93

PSYCHROMETRIC SUMMARY

<u>1 14</u>	<u>RAMSTEIN AB DL</u>
STATION	STATION NAME

73-81

YEARS

AUG
MONTH

PAGE 1 1280-1402
HOURS 11-5 P.M.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

1500-1700
HOURS

[illegible]

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

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 141 RAYSTEIN AB DL 73-31 4113
STATION STATION NAME YEARS
PAGE 1 1870-2000
HOURS 11.5

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

PSYCHROMETRIC SUMMARY

YEARS

AUG
MONTH

PAGE 1 2100-2300
HOURS 11.5.7

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

AL 3
MAY 1968

24.12.1

ALL
HOURS

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

4615

MONTH

PAGE 2

411

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

SEP
MONTH

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

[illegible]

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

PSYCHROMETRIC SUMMARY

YEARS

SE 7
MONT

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 / 59																		2	2																
6 / 67			.1															3	3																
6 / 65				.1		.1												4	4																
4 / 63			.5	.4	.1													8	8	2															
7 / 61			.4	1.5	.5	.2												21	21	5	1														
7 / 59	1.1	1.9	3.1	2.5														69	69	21	15														
7 / 57	.6	3.5	1.7	1.6	.5													64	64	38	18														
5 / 55	1.1	4.2	2.8	3.1														97	90	65	44														
4 / 53	2.3	3.	2.2	1.3														69	69	96	63														
4 / 51	2.3	4.1	3.8	.1														84	84	89	54														
7 / 49	1.4	4.4	2.3															66	66	103	57														
7 / 47	2.1	5.6	.7															68	68	92	95														
4 / 45	2.2	6.8	3.3															100	100	76	135														
4 / 43	1.7	3.6	2.7															65	65	62	78														
4 / 41	2.	2.7	.4															35	35	65	61														
4 / 39	.9	1.6	.9															27	27	38	41														
3 / 37	.9	1.7	.1															16	16	23	32														
7 / 35	.2	.7	.9															15	15	17	23														
3 / 33	.1	.4																4	4	15	15														
7 / 31																				3	7														
7 / 29																					6														
7 / 27																					10														
TAL	15.	43.5	27.7	8.9	1.5	.1													810	810	810														
																					810		810												

PSYCHROMETRIC SUMMARY

YEARS

656

PAGE 1 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			
1 / 59					.4													3	3					
6 / 65				.4														3	3					
4 / 63		.1	.7	.5	.1													12	12					
1 / 61		1.2	1.4	1.2	.1													32	32	5				
1 / 59	.9	2.2	3.0	1.9	.1													65	65	28	14			
1 / 57	.1	3.8	3.1	1.9	.1													72	72	40	23			
5 / 55	.7	4.1	3.7	2.5														83	83	71	38			
4 / 53	2.8	3.6	3.5	1.5	.1													93	93	95	79			
2 / 51	1.4	4.2	4.8	.5														88	88	88	80			
5 / 49	2.0	4.3	1.7															65	65	119	71			
1 / 47	2.3	5.9	1.4															78	78	109	100			
4 / 45	1.4	6.3	3.2															88	88	68	133			
4 / 43	.9	2.8	1.2															40	47	55	71			
2 / 41	1.0	2.0	.6															29	29	48	72			
1 / 39	.7	2.2	.6															29	29	26	44			
3 / 37	.6	.4	.2															10	10	28	28			
1 / 35	.6	.4	.6															13	13	14	21			
3 / 33	.4	.4	.1															7	7	12	16			
2 / 31																				4	5			
1 / 29																					2			
1 / 27																					9			
TOTAL	15.8	44.0	29.0	10.2	1.0														810	810	910	910		
																					810	810		

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

POEM

JSAFETAC

PSYCHROMETRIC SUMMARY

PAGE 1 2900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

SEP
MONTH

PAGE 1 1255-1400
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-140 RAMSTEIN AB DL 73-81 SEP MONTH
STATION STATION NAME YEARS

PAGE 1 1570-1700
HOURS 15.5.1

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																
87 / 87											.4							3															3				
86 / 85										.1			.1	.1				3															3				
85 / 83									.4	.4	.4	.1						12															10				
84 / 81								.1	.4	.6	.2							11															11				
83 / 79						.5	.1	1.5	.6	.2	.1							25															25				
82 / 77					.1	.1	.9	1.1	.2	.1								21															21				
81 / 75					.7	1.7	1.6	1.5	.5	.5								53															53				
80 / 73				.4	.4	1.0	3.0	.2	1.1	.1								52															50				
79 / 71			.2	.1	1.5	1.2	3.2	.9	.9									65															65				
78 / 69		.1	.5	.6	1.4	2.6	.6	2.0	.1									64															64		5		
77 / 67			.5	1.2	1.9	.6	1.4	.6	.1									51															51		31		
76 / 65		.1	.1	1.9	2.5	1.2	1.1	.2	.1									59															59		42		
75 / 63		.1	1.9	3.8	3.2	4.3	2.5	1.2										127															137		76	14	
74 / 61		.1	.9	1.7	2.8	1.7	.5	.1										64															64		96	19	
73 / 59		1.1	.7	2.8	1.9	.7	.6											62															62		95	58	
72 / 57		.6	1.5	.9	.2	1.2	.4											39															39		98	77	
71 / 55		1.1	.6	.7	1.0	.2												30															30		88	77	
70 / 53		.7	.6	1.1	.6													25															25		132	63	
69 / 51		.7	1.7	.6														25															25		43	97	
68 / 49			.6															5															5		31	42	
67 / 47																																			50	72	
66 / 45		.4	.1															4															4		17	127	
65 / 43		.2																2															2		55		
64 / 41																																			2	59	
63 / 39																																				23	
62 / 37																																				13	
61 / 35																																				12	
60 / 33																																				5	
TOTAL	5.3	10.0	15.9	18.2	17.3	15.7	9.5	4.4	2.1	1.1	.2	.1						809															809		809		
Element (X)	Σ x'	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	Σ x	No. Obs.	Mean No. of Hours with Temperature															Total			
Rel. Hum.	2975632	47697	58.9	14.261														809	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F													
Dry Bulb	3571973	53377	66.0	7.883														809			39.6	19.6	3.9											90			
Wet Bulb	2674372	46297	57.2	5.616														809			4.1												90				
Dew Point	2090098	40784	50.4	6.493														809																		90	

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

PSYCHROMETRIC SUMMARY

SEP
MONTH

PAGE 1 1800-2700
HOURS (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			
1 / 87									.1									1	1					
1 / 81									.2		.1							1	1					
7 / 79								.4	.2									5	5					
7 / 77						.1	.4	.1										5	5					
6 / 75					.2	.4	.2	.2										9	9					
4 / 73					.5	.9	.6	.5										20	20					
1 / 71				.4	.9	.4	.5		.1									19	19					
1 / 69			.2	.7	1.6	2.7	.5	.6										46	46	1				
1 / 67			.4	1.2	1.7	1.7	.4											38	38	8				
6 / 65			1.5	2.3	1.2	.6	.4											49	49	14				
4 / 63		1.5	2.8	4.8	2.3	2.7	.6											120	120	47	5			
1 / 61		1.2	3.6	2.7	3.8	.7	.2											93	94	74	17			
1 / 59		1.1	3.1	3.5	3.7	.5	.1											97	97	86	70			
1 / 57		2.2	2.7	4.7	.6	.2												95	85	95	63			
5 / 55	.1	1.9	2.6	3.3	.2	.5												70	70	97	76			
4 / 53		1.7	1.9	1.5	.4	.1												45	45	104	63			
2 / 51	.4	1.5	2.3	.7	.4													43	43	107	96			
5 / 49		1.4	1.7	.1														20	20	74	56			
1 / 47		2.7	1.2	.4														29	29	49	84			
4 / 45		.9		.1														8	8	33	141			
4 / 43		.5																4	4	14	55			
2 / 41		.1																1	1	5	30			
4 / 39		.1																1	1		17			
3 / 37																				1	10			
1 / 35																					6			
3 / 33																					2			
2 / 31																					1			
TOTAL		16.1	23.4	26.6	16.6	10.1	4.1	1.0	.5		.1							809	810	809	809			

Element (X)	Σx^2	Σx	$\bar{x}$	s^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4167407	57089	70.6	13.106	809	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	3701257	48979	60.5	6.996	810			16.0	4.6	.7		90
Wet Bulb	2463379	44423	54.9	5.458	809			1.0				90
Dew Point	2082448	40762	50.4	5.952	809		.1					90

PSYCHROMETRIC SUMMARY

YEARS

SEP
MONTH

PAGE 1 2150-2300
HOURS 11:55 A.M.

[illegible]

USAFETAC
FORM
11-66
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

1 14	RAMSTEIN AB DL
STATION	STATION NAME

73-81

YEARS

SEP
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														
9 / 27											.0	.0						3	3																
6 / 45										.0	.0	.0	.0					5	5																
4 / 53									.1	.1	.1	.0						17	17																
1 / 31								.1	.1	.1	.0							23	23																
1 / 79						.1	.0	.4	.2	.0	.0							49	49																
7 / 77						.1	.4	.3	.0	.1								54	54																
6 / 75					.2	.4	.4	.4	.1	.1								97	97																
4 / 73				.1	.4	.4	.7	.2	.3	.0								132	132																
1 / 71			.0	.1	.6	.5	.9	.2	.2									164	164																
1 / 69		.0	.2	.5	.7	1.1	.4	.5	.0									221	221	12															
1 / 67			.3	.4	1.0	.5	.4	.1	.0									175	175	65															
6 / 65		.1	.5	1.0	1.0	.4	.3	.2	.0									229	229	125	3														
4 / 63	.0	.7	1.8	2.8	1.5	1.7	.7	.3										617	617	240	47														
1 / 61	.0	1.2	2.0	1.9	1.6	.6	.2	.0										492	493	348	37														
1 / 59	.5	2.1	3.0	2.7	1.7	.3	.1	.0										666	666	509	364														
1 / 57	.0	2.4	2.2	2.4	.4	.3	.1											527	527	600	387														
5 / 55	.0	2.7	2.4	2.5	.4	.2												571	571	686	484														
4 / 53	.9	2.5	2.3	1.4	.3	.0												486	486	807	643														
2 / 51	.9	2.5	3.4	.4	.1													470	470	709	719														
5 / 49	.7	2.6	1.9	.1	.0													340	340	640	459														
6 / 47	.7	3.3	1.0	.1														326	326	617	678														
4 / 45	.8	3.6	1.5	.0														387	387	407	1094														
4 / 43	.4	1.5	.7															174	174	257	538														
2 / 41	.5	.8	.1															98	98	193	426														
4 / 39	.2	.6	.3															75	75	97	208														
3 / 37	.2	.3	.1															38	38	64	134														
1 / 35	.1	.2	.2															29	29	42	97														
3 / 33	.1	.1	.0															12	12	32	55														
2 / 31																				7	24														
1 / 29																					10														
1 / 27																					20														
TOTAL	7.0	27.1	24.1	16.5	9.8	6.6	4.5	2.6	1.0	.4	.2	.0	.0						6477		6477														
																			6477		6477														
Element (X)	ΣX ²			ΣX		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature																							
Rel. Hum.	38292500			487308		75.2		15.860		6477		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total											
Dry Bulb	21841007			371587		57.4		9.014		6478						104.5		42.2		7.8				720											
Wet Bulb	18283290			341430		52.7		6.635		6477						.8								720											
Dew Point	15750182			31070		48.9		6.430		6477				6.0										720											

PSYCHROMETRIC SUMMARY

73-81

CCT

STATION

STATION NAME

YEARS

MONTH

PAGE 2

7000-0240

HOURS 11, 5, 7, 1

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

OCT
MONTH

PAGE 1

7300-3500
HOURS (L.S.T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

OCT
MONTH

PAGE 1 9870-ORC
HOURS 5.5.1

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			
/ 9			.7	.2														8	8					
/ 57		.5	.4	.1														8	8	5				
5 / 55	.1	2.7	.8	.6														35	35	8	8			
4 / 53	.2	2.5	1.7	.5														41	41	34	13			
3 / 51	.5	2.3	2.7															45	45	38	51			
2 / 49	.1	3.3	2.9															52	52	52	27			
1 / 47		6.5	2.4	.4														77	73	76	57			
4 / 45	.8	7.9	3.8	.2														175	158	83	117			
4 / 43	.5	7.3	3.5															93	96	88	63			
2 / 41	1.3	10.1	1.2															124	127	92	152			
1 / 39	1.1	7.6																72	72	95	41			
3 / 37	2.2	5.7	.6															64	64	89	154			
/ 35	.4	3.5	.1															33	35	47	71			
3 / 33	.7	1.6	.2	.1														22	22	40	46			
/ 31	.5	1.6	.1															18	18	76	31			
/ 29	.8	1.7																21	21	23	28			
2 / 27	1.1	1.7																17	17	10	27			
/ 25	.7																	6	6	9	11			
- / 23	.4	.1																4	4	5	17			
2 / 21																				1	7			
/ 19																					1			
TOTAL	11.565	121.2	2.2																825	875	825			

Element (X)	ΣX^1	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	625617	7157	86.8	7.582	825	$\leq 0^\circ F$	$\leq 32^\circ F$	$\leq 67^\circ F$	$\leq 73^\circ F$	$\leq 80^\circ F$	$\leq 93^\circ F$	
Dry Bulb	1621162	36348	43.4	7.146	837		7.3					93
Wet Bulb	142527	34459	41.7	6.737	825		9.5					93
Dew Point	1345989	32769	39.7	6.915	825		13.3					93

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 7970-1100
HOURS 11.5.1.

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 / 67						.1		.1										2	2																		
6 / 55				.1	.2	.1												4	4																		
4 / 53		.1	.1	.6	.4													10	10																		
1 / 51		.2	.3	.8	.3													13	13																		
1 / 49		.5	1.6	.3	.1													25	25	6	1																
1 / 47		1.1	.8	2.4	.5													40	40	20	7																
5 / 45		2.4	1.4	2.2	.2													52	52	32																	
4 / 43		2.2	4.1	1.6	.1													66	66	36	19																
1 / 41	.4	2.7	4.3	.7	.4													70	70	70	50																
5 / 39	.2	2.9	4.0	.2														61	61	79	20																
1 / 37	.4	4.5	3.7	.8														78	80	88	50																
4 / 35	.4	7.9	4.8	.5		.1												113	122	94	106																
4 / 33	.6	6.3	2.3	.5	.1													82	82	89	69																
1 / 31	1.0	7.4	1.6	.5	.1													87	87	98	118																
1 / 29	.5	3.6	.5															36	36	69	103																
1 / 27	.8	3.7	.2	.2														42	42	61	77																
1 / 35		1.7	.1	.2														17	17	41	47																
3 / 33	.7	.6																11	11	21	41																
1 / 31	.2	.6																7	7	15	17																
1 / 29		.4																3	3	4	21																
1 / 27	.1																	1	1	2	4																
1 / 25	.1																	1	1	1	2																
1 / 23																																					
2 / 21																																					
1 / 1																																					
Totals	5.4	44.7	31.6	12.4	2.5	.4												828	828	828	828																

Element (X)	Σx'	Σx	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5597421	67567	81.6	10.065	828	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1937628	39822	47.6	7.173	837		1.3	.2				93
Wet Bulb	1702456	37168	44.9	6.414	828		2.5					93
Dew Point	1501365	34831	42.1	6.611	828		6.3					93

PSYCHROMETRIC SUMMARY

YEARS

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 / 77									.1	.1								2	2																
6 / 75								.1	.4									4	4																
4 / 73						.1	.4	.2										6	6																
1 / 71					.2	.6	.4											11	11																
1 / 69			.1		.2	.6	.4											15	15																
1 / 67			.1		1.6		.1																												
6 / 65				.7	.3	.5												14	14	2															
4 / 63			.1	2.1	1.4	1.2												40	40	3	2														
1 / 61			.8	1.2	2.5	.7												44	44	21															
1 / 59		.5	1.8	1.9	1.9	.1												52	52	29	1														
1 / 57		1.1	1.7	1.9	.6	.4												41	41	39	13														
5 / 55	.1	1.2	2.7	2.9	2.3	.1												77	77	47	29														
4 / 53	.2	.8	3.6	3.5	1.2	.1												79	79	65	42														
1 / 51	.4	1.4	1.9	3.0	1.1	.4												68	72	77	49														
1 / 49	.1	1.7	3.1	1.2	.4													54	55	69	41														
1 / 47	.2	3.6	4.6	1.4	.6	.4												90	93	98	76														
1 / 45	.4	4.8	3.6	1.3	.7	.4												93	96	123	115														
4 / 43	.1	3.9	2.1	1.4		.1												63	63	77	74														
7 / 41		4.7	1.3	.2	.1													53	53	77	129														
4 / 39	.1	1.1		.1														11	11	63	98														
3 / 37	.1	.2																3	3	26	66														
1 / 35	.1	.4																4	4	6	37														
3 / 33																				6	24														
7 / 31																					12														
1 / 29																					14														
1 / 27																					4														
1 / 25																					1														
1 / 23																					5														
2 / 21																					2														
1 / 19																					1														
TOTAL	1.0	25.5	26.9	23.1	15.2	5.2	1.3	.7	.1									828	837	828	628														

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

Element (X)	$Z_{K'}$	Z_K	$\bar{X}$	σ_K	No. Obs.	Mean No. of Hours with Temperature					
						$\leq 0^\circ \text{F}$	$\leq 32^\circ \text{F}$	$\leq 67^\circ \text{F}$	$\leq 73^\circ \text{F}$	$\leq 80^\circ \text{F}$	$\leq 93^\circ \text{F}$
Rel. Hum.	4501999	60235	72.7	13.214	828						
Dry Bulb	2351731	43889	52.4	7.762	837			4.7	1.1		93
Wet Bulb	1738543	39722	48.0	6.311	828						93
Dew Point	1676766	36736	43.5	6.753	828		11.4				93

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1570-1700
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														
1 / 79										.1								1	1																
7 / 77								.1	.1	.1								3	3																
4 / 75							.4	.2										5	5																
4 / 73					.1		.2	.4			.1							7	7																
1 / 71					.2		.4	.5										9	9																
1 / 69					.2	1.1	.1	.2										14	14																
1 / 67				.1	1.3	.5	.4											19	19																
6 / 65				.1	.5	.5	.2											11	11	1															
4 / 63			.2	1.8	1.7	1.2	.4											44	44	7															
1 / 61		.1	1.7	2.2	1.8	.4	.1											52	52	19	1														
1 / 59		.2	1.6	1.4	1.9	.2												45	45	21	3														
1 / 57		1.1	1.3	2.5	1.9	.1												57	57	49	11														
5 / 55		.7	3.1	3.9	1.1	.2												75	75	53	27														
1 / 53		1.6	2.2	3.5	1.4													72	72	55	39														
1 / 51		1.7	4.1	2.2	1.6	.2	.1											82	83	63	60														
5 / 49		1.1	2.7	1.7	.6	.6	.1											56	58	94	40														
1 / 47	.1	2.4	3.1	1.2	.7													63	66	38	79														
4 / 45	.1	5.3	3.7	1.6	.8	.4												99	102	76	129														
4 / 43	.1	3.5	2.4	.4	.1													54	54	86	76														
1 / 41		3.5	2.2	.2														49	49	76	112														
4 / 39		.8																7	7	59	73														
3 / 37		.2																2	2	23	79														
1 / 35		.1																1	1	6	40														
3 / 33		.1																1	1	1	20														
1 / 31																				1	11														
1 / 29																					17														
1 / 27																					7														
1 / 25																					5														
1 / 23																					1														
2 / 21																					3														
TOTAL		.422	.522	.422	.816	.25	.42	1.4	.1	.2	.1							828	837	828	828														
Element (X)	$\Sigma x'$	Σx	$\bar{x}$	s_x	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	4303223	58707	70.9	13.047	828	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	2428175	44585	53.3	7.980	837			6.4	1.8			93																							
Wet Bulb	1974264	40092	48.4	6.317	828		.1					93																							
Dew Point	1614937	36133	43.6	6.710	828		4.2					93																							

PSYCHROMETRIC SUMMARY

1 147	RAMSTEIN AB DL
STATION	STATION NAME

73-81

YEARS

CCT
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

OCT
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

[illegible]

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 - 141 RAMSTEIN AB DL 73-81 OCT
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																		
79										.0								1															1						
77									.0	.0								5															5						
75							.1	.1										9															9						
73						.0	.1	.0				.0						11															11						
71						.0	.1	.1										15															15						
69			.0		.1	.2	.1	.0										25															25						
67			.0	.0	.4	.1	.1											36															36						
65			.0	.2	.2	.2	.0											33															33		3				
63		.0	.2	.8	.6	.3	.0											123	123													11			3				
61		.1	.7	.6	.6	.1	.0											145	145													42			1				
59		.3	1.3	.7	.5	.1												194	194													81			6				
57		.8	.9	1.2	.4	.1												221	221													157			37				
55	.1	2.1	2.2	1.7	.6	.0												440	440													225			113				
53	.1	2.1	2.5	1.7	.3	.0												446	446													337			221				
51	.3	2.5	3.3	1.0	.4	.1	.0											496	499													478			333				
49	.1	2.5	3.2	.5	.1	.1	.0											431	434													530			285				
47	.3	5.2	2.9	.7	.2	.0												609	625													665			454				
45	.5	7.3	3.9	.7	.2	.1												844	878													741			905				
43	.5	6.1	2.5	.6	.0	.0												639	647													741			580				
41	.7	7.5	1.5	.3	.0													662	668													687			976				
39	.6	5.5	.3	.0														426	430													609			727				
37	.9	3.0	.4	.1														289	293													543			690				
35	.2	2.5	.2	.0														195	197													254			455				
33	.5	.9	.2	.0														106	108													216			306				
31	.2	.9	.0															72	72													135			180				
29	.3	.8																70	72													79			183				
27	.5	.2																48	48													52			140				
25	.2	.0																17	17													22			51				
23	.1	.0																6	6													5			39				
21																																	1			24			
19																																				5			
TOTAL	6.25	7.02	6.2	10.8	4.6	1.4	.5	.3	.0	.0	.0								6614													6696			6614				
																			6614														6614						
Element (X)	Σx			Σx			Σx			Σx			Σx			Σx			Σx			Σx			Σx			Σx			Σx			Σx			Σx		
Rel. Hum.	44596055			537679			81.3			11.575			6614			Σ 0 F			Σ 32 F			Σ 67 F			Σ 73 F			Σ 80 F			Σ 93 F			Total					
Dry Bulb	15387895			316341			47.2			8.152			6696						23.7			11.3			2.9									744					
Wet Bulb	1342658			294162			44.5			6.952			6614						33.1															744					
Dew Point	1173847			274852			41.6			6.920			6614						70.0															744					

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

PSYCHROMETRIC SUMMARY

73-81

YEARS

NOV
MONTH

PAGE 1

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

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

NOV
MONTH

PAGE 1 7300-0500
HOURS (L. S. T.)

[illegible]

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

PSYCHROMETRIC SUMMARY

NOV
MONTH

PAGE 1 0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

NCV

STATION

STATION NAME

YEARS

MONTH

PAGE 1

6970-1100

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			
1 / 59			.1	.4		.1												5	5					
2 / 57		.2	.4	.4	.1	.1												10	10					
5 / 55		.2	.5	.2		.1												9	9	3	3			
4 / 53		.7	.9		.1													19	19	9	1			
2 / 51	.1	.2	3.2	.1														30	30	15	6			
1 / 49		1.3	3.1	.4														36	36	22	5			
1 / 47		3.7	1.7															44	44	54	14			
4 / 45		4.8	2.1	.4														59	59	63	54			
4 / 43	.1	4.2	3.3	.1														63	63	52	59			
2 / 41	.5	7.7	3.5	.1														95	95	63	73			
1 / 39	.7	9.1	2.3	.4														102	102	72	64			
3 / 37	.7	6.3	2.5															77	77	103	59			
1 / 35	.4	7.1	2.1															77	77	79	84			
3 / 33	.2	4.6	1.2	.2														51	51	95	78			
2 / 31	.2	3.0	1.7															40	40	62	62			
1 / 29	.4	3.1	1.0	.1														37	37	45	63			
1 / 27	.1	2.2	.7															33	33	29	90			
1 / 25	.6	.9	.1															13	13	28	22			
1 / 23	.1	.6	.1															7	7	9	29			
2 / 21		.1																1	1	4	10			
1 / 19																				1	11			
1 / 17		.1																1	1	1	15			
1 / 15																					2			
1 / 13																					1			
1 / 11																					2			
TOTAL	5.36	0.03	3.7	3.5	.2	.4												809	809	809	909			

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

[illegible]

PSYCHROMETRIC SUMMARY

PAGE 1 1570-1710
HOURS L. S. T.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS.

NOV
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

USAFETAC

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 2170-2300
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	.4	.1													5	5					
/ 57			.1	.2														3	3					
5 / 55		.2	.6	.1	.4													11	11	1				
4 / 53	.1	.7	.7	.9	.2													22	22	15	1			
2 / 51		1.1	2.2															27	27	15	7			
1 / 49		.9	1.5															19	19	25	2			
/ 47		2.6	1.9	.5														41	41	47	15			
4 / 45	.4	3.3	4.6	.2														69	69	41	58			
4 / 43	.4	4.9	2.1	.4	.2													65	65	67	35			
1 / 41	1.0	7.7	4.1	.1	.1													100	100	50	66			
4 / 39	.1	6.2	2.6	.5														76	76	56	63			
3 / 37	1.5	7.3	1.5															83	83	61	48			
/ 35	.4	6.7	3.1															82	82	94	92			
3 / 33	.5	4.2	2.1	.2														57	57	89	99			
2 / 31	.1	2.8	.5															28	28	71	81			
/ 29	.6	2.3	1.1															33	33	70	67			
/ 27	2.0	2.6	1.1															46	46	40	57			
/ 25	1.2	1.5	.1															23	23	32	36			
2 / 23	1.0	.7																14	14	22	30			
2 / 21		.2																2	2	5	25			
/ 19	.1	.2																3	3	3	17			
/ 17	.1																	1	1	3	4			
1 / 15																					15			
/ 13																					4			
TOTAL	2.5	55.7	33.0	3.7	1.1													810	810	810	810			

Element (X)	Σx^1	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Rel. Hum.	5566718	666688	82.3	9.834	810							
Dry Bulb	1235147	31781	39.2	7.718	810		16.7					90
Wet Bulb	1158556	3074	37.1	7.272	810		22.9					95
Dew Point	994003	27665	34.2	7.792	810		36.4					95

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 141 RAMSTEIN AB DL

73-81

NOV
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														
4 / 51					.1													3		3															
4 / 50				.1	.1													4		4															
4 / 49			.1	.1	.1	.1												45		45															
4 / 57		.1	.3	.6	.1	.1												77		77															
5 / 55		.3	.6	.4	.2	.1												98		98															
4 / 53		.4	1.1	.9	.2	.1	.1											163		163															
2 / 51	.1	.7	2.5	.3	.1	.1												243		243															
5 / 49		.9	2.7	.5	.1	.1												221		221															
4 / 47	.1	3.1	1.7	.9	.1													381		381															
4 / 45	.2	4.7	3.4	.9	.2	.1												610		610															
4 / 43	.3	4.2	3.1	1.7	.2	.1												571		571															
4 / 41	.6	6.8	3.6	.6	.1	.1												758		758															
4 / 39	.5	6.7	2.7	.6	.1													683		683															
5 / 37	.9	5.4	2.4	.2	.1													577		577															
4 / 35	.4	5.8	2.3	.2	.1													559		559															
3 / 33	.5	4.4	1.5	.4														435		435															
2 / 31	.2	2.7	1.7	.2														263		263															
4 / 29	.3	3.7	1.7	.1														279		279															
4 / 27	1.5	1.9	.7															261		261															
4 / 25	.6	.9	.1															173		173															
4 / 23	.5	.7	.1															78		78															
2 / 21	.3	.2																30		30															
4 / 19		.3																21		21															
4 / 17		.1																9		9															
4 / 15																		1		1															
4 / 13																		2		2															
4 / 11																		3		3															
4 / 9																		3		3															
4 / 7																		3		3															
TOTAL	7.53	229.9	9.0	1.4	.4	.7												6478		6478															

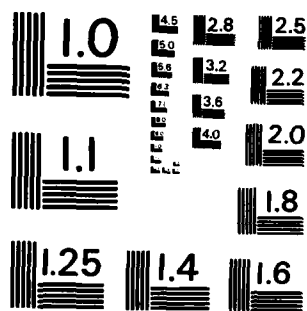
Element (X)	$\Sigma x'$	Σx	$\bar{x}$	s_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	42929583	522841	81.7	10.623	6478	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	10833478	260067	40.1	7.793	6478		116.7					72
Wet Bulb	95717.6	244626	37.8	7.181	6478		164.4					72
Dew Point	8894182	223397	34.5	7.767	6478		284.6					72

AD-A122 700

RAMSTEIN AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. 21 JUL 82
USAFETAC/DS-82/043 SBI-AD-E880 202 F/O 4/2 NL

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MICROCOPY RESOLUTION TEST CHART
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 146 RAMSTEIN AB DL

73-81

DEC
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														
4 / 53		.5	.7															11	10																
7 / 51		.1	.6	.1														7	7																
8 / 48	.1	.6	1.1	.6														20	20																
9 / 47	.1	3.0	1.0		.1													35	35	13	10														
10 / 45	.6	2.6	2.5															48	48	50	24														
11 / 43	.1	1.9	1.7	.4														34	34	26	34														
12 / 41	.6	1.9	.2	.2														25	25	51	20														
13 / 39	.6	4.9	2.4	.1														67	67	31	47														
14 / 37	1.1	4.4	2.9															70	70	62	50														
15 / 35	2.5	8.7	3.1															120	120	95	65														
16 / 33	2.0	5.5	2.7	.1														87	87	118	73														
17 / 31	1.3	4.5	1.2	.1														60	60	97	65														
18 / 29	1.7	4.4	.6	.1														57	57	71	87														
19 / 27	1.7	2.7	.5															41	41	49	65														
20 / 25	1.6	2.2																31	31	40	64														
21 / 23	1.1	2.6																31	31	29	38														
22 / 21	1.0	1.8																31	31	37	40														
23 / 19	1.1	.8																16	16	21	25														
24 / 17	.5	.6																9	9	11	29														
25 / 15	.6	.6																10	10	12	26														
26 / 13	.6	.5																9	9	10	10														
27 / 11	.4	.1																4	4	4	15														
28 / 9	.6																	5	5	6	9														
29 / 7	.6																	5	5	5	4														
30 / 5																																			
31 / 3	.2																	2	2	2	1														
32 / 1																																			
33 / -1	.4																	3	3	3	1														
34 / -3																																			
TOTAL	21.4	55.1	21.1	1.8	.1														837	837		837													
																						837		837											
Element (X)	Σ X'			Σ X			Σ			Σ			No. Obs.			Mean No. of Hours with Temperature							Total												
Rel. Hum.	60140			70700			84.510.273			837			≤ 0 F ≤ 32 F ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F																						
Dry Bulb	140542			28478			34.0 9.255			837			.3 34.9							93															
Wet Bulb	94497			27143			32.4 8.741			837			.3 43.0							93															
Dew Point	808898			24447			29.7 9.262			837			.3 56.8							93															

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

PSYCHROMETRIC SUMMARY

YEARS

DEC
MONTH

PAGE 1

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

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ALC WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 140 RAMSTEIN AB DL

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0670-0800

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															
47 / 57			.5	.2														6	6																	
46 / 56			.4	1.1	.1													12	12																	
45 / 55		.2	.5	.2														8	8	10																
44 / 47	.2	1.7	1.2															26	26	15																
43 / 45	.4	4.4	2.4	.2														62	62	36	27															
42 / 43	.1	2.6	2.2															41	41	41	24															
41 / 41	.6	2.4	2.4	.4														48	48	45	47															
40 / 40	.6	4.2	1.7															48	48	36	37															
39 / 37	1.4	3.6	2.4															62	62	67	33															
38 / 35	.5	7.1	2.7															86	86	54	67															
37 / 33	2.3	5.4	2.7	.4														84	84	170	80															
36 / 31	.5	5.6	1.9															67	67	173	46															
35 / 29	1.1	5.5	.2															57	57	50	54															
34 / 27	4.3	4.2	.2															73	73	66	114															
33 / 25	1.2	2.7																27	27	37	55															
32 / 23	1.7	2.3	.1															34	34	70	54															
29 / 21	1.7	1.9	.1															31	31	72	36															
28 / 19	1.7	.4																11	11	25	16															
27 / 17	.2	.5																6	6	7	29															
26 / 15	1.4	.7																19	19	20	18															
25 / 13	.2	.4																5	5	6	22															
24 / 11	.2	.5																6	6	5	17															
23 / 9	.6																	5	5	6	11															
22 / 7	.2																	2	2	2	7															
21 / 5	.4																	8	8	8	7															
20 / 3	.4																	3	3	3	7															
19 / 1	.1																	1	1	1	6															
18 / -1																					1															
TOTAL	21.0	56.0	20.8	1.6														837	937	877	837															
																						837		877												
Element (X)	Σ X ²			Σ X			Σ			Σ			No. Obs.			Mean No. of Hours with Temperature																				
Rel. Hum.	6 21920			70528			84.3			9.723			837			≤ 0 F ≤ 32 F ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F																		Total		
Dry Bulb	1 16094			28078			33.5			9.420			837																					93		
Wet Bulb	925681			26749			32.3			8.874			837																					93		
Dew Point	785616			24408			29.2			9.399			837			.1 57.9																		93		

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

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

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 / 51			.5	.2														6	6						
47 / 51			.4	.1														12	12						
47 / 47		.2	.5	.2														8	8	10					
47 / 47	.2	1.7	1.2															26	26	15	8				
47 / 45	.4	4.4	2.4	.2														62	62	36	27				
47 / 43	.1	2.6	2.2															41	41	41	24				
47 / 41	.6	2.4	2.4	.4														48	48	45	47				
47 / 39	.6	4.2	1.7															48	48	36	37				
47 / 37	1.4	3.6	2.4															62	62	67	33				
47 / 35	.5	7.0	2.7															86	86	54	60				
37 / 33	2.3	5.4	2.7	.4														84	84	100	80				
37 / 31	.5	5.6	1.9															67	67	103	46				
37 / 29	1.1	5.5	.2															57	57	50	54				
37 / 27	4.3	4.2	.2															73	73	66	114				
37 / 25	1.2	2.7																27	27	37	55				
37 / 23	1.7	2.3	.1															34	34	30	54				
27 / 21	1.7	1.9	.1															31	31	32	36				
27 / 19	1.7	.4																11	11	25	16				
27 / 17	.2	.5																6	6	7	29				
27 / 15	1.4	.7																18	18	20	18				
27 / 13	.2	.4																5	5	6	22				
17 / 11	.2	.5																6	6	5	17				
17 / 9	.6																	5	5	6	11				
17 / 7		.2																2	2	2	7				
17 / 5	1.0																	8	8	8	2				
17 / 3	.4																	3	3	3	7				
17 / 1	.1																	1	1	1	6				
17 / -																					1				
TOTAL	21.0	56.2	27.8	1.6														837	937	837	837				
																					837		837		

PSYCHROMETRIC SUMMARY

<u>1 - 140</u>	<u>RAMSTEIN AB DL</u>
STATION	STATION NAME

73-81

YEARS

DEC
MONTH

PAGE 1 2900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

DEC
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											
1 / 57				.1														1	1													
5 / 55				.5	.1													5	5													
4 / 53		.1	.2	.6	.4													11	11													
5 / 51		.5	.6	.7	.1													16	16	3												
5 / 49		.8	.8	.6	.1													20	20	13	2											
1 / 47		2.5	1.7	.8														42	42	28	5											
4 / 45		3.6	4.1	.8														71	71	50	25											
4 / 43	.4	2.6	2.9	.8	.2													58	58	59	36											
5 / 41	.7	2.7	2.3	1.2	.1													59	59	57	67											
4 / 39	.4	4.4	2.7	1.1														66	66	46	45											
3 / 37	.7	4.4	3.3	1.7														79	79	64	49											
1 / 35	.2	5.2	3.9	.6														92	92	68	67											
3 / 33	1.9	5.4	3.1	.1	.1													89	89	121	65											
2 / 31	1.1	3.2	2.7	.5	.1													58	58	118	75											
1 / 29	.5	6.3	.8	.2	.1													67	67	63	71											
1 / 27	.8	3.5	1.7	.1														51	51	47	120											
1 / 25	.6	.6	.4															13	13	49	59											
2 / 23	.5	1.3	.1															16	16	17	43											
2 / 21	.2	.6																7	7	13	34											
1 / 19	.7	.5																17	17	11	26											
1 / 17	.6	.1																6	6	9	13											
1 / 15																				1	22											
1 / 13																					9											
1 / 11																					3											
1 / 9																					3											
1 / 7																					1											
1 / 5																					2											
TOTAL	9.7	49.1	30.7	9.8	1.4													837	937	837	937											
																						837		837								

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

PSYCHROMETRIC SUMMARY

1 141 AMSTEIN AB DL 73-81 DEC
STATION STATION NAME YEARS MONTH
PAGE 1 1500-1700
HOURS (G. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

DEC
MONTH

PAGE 1 1673-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

DEC
MONI

PAGE 1 240-2342
HOURS 11.5.11

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-14-1 RAMSTEIN AB DL 73-81 DEC
STATION MONTH
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																		2		2				
55																		14	14					
53			.2	.3	.2	.1												51	51					
51			.2	.8	.3	.1												91	91	72				
49		.4	.8	.4	.2													110	110	61	16			
47	.1	2.4	1.0	.3	.2													256	256	163	38			
45	.3	3.7	3.3	.4														511	511	341	73			
43	.2	2.2	2.3	.2	.1													333	333	355	248			
41	.5	3.1	1.5	.6														390	391	378	229			
39	.7	4.3	2.1	.3														490	490	347	374			
37	1.3	3.9	2.8	.3														556	556	486	355			
35	1.2	6.5	3.6	.3														777	777	580	504			
33	2.3	5.1	2.9	.3														710	710	659	591			
31	.9	4.9	1.5	.1														505	505	879	476			
29	1.1	5.2	.7	.1														477	477	557	669			
27	2.6	3.7	.9	.0														486	486	473	812			
25	.9	1.9	.1	.0														195	195	322	534			
23	.9	1.9	.1															193	198	213	350			
21	1.4	1.2																177	177	227	279			
19	.9	.8																109	109	142	209			
17	.5	.4																60	60	97	182			
15	.5	.3																59	59	67	178			
13	.2	.3																30	30	35	102			
11	.3	.1																27	27	27	66			
9	.4	.2																25	25	28	58			
7	.3	.3																21	21	21	34			
5	.3																	19	19	19	39			
3	.1																	9	9	9	21			
1																		2	2	2	14			
-1																		3	3	3	3			
-3																					2			
TOTAL	17.8	53.0	24.8	3.9	.4													6693	6694	6693	6693			
																						6693		6693
Element (X)	Σ X ²		Σ X		X	σ _x	No. Obs.		Mean No. of Hours with Temperature							Total								
Rel. Hum.	46618822		553864		82.8	10.831	6693		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	8667361		233711		34.9	8.709	6694		.3	267.0					744									
Wet Bulb	7770184		221412		33.1	8.160	6693		.3	344.7					744									
Dew Point	6541204		200820		30.0	8.779	6693		.6	447.8					744									

PSYCHROMETRIC SUMMARY

ALL MONTH

ALL
HOURS 12.5.7

[illegible]

PSYCHROMETRIC SUMMARY

ALL

MONTH

All

AS . . .

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														
/	.2	2.2	.5	.1	.													2334	2334	2701	3978														
/ 22	.6	1.8	.5	.2	.													2314	2314	2435	5115														
/ 25	.2	.8	.1	.7	.													881	881	1647	2856														
/ 23	.2	.7	.1	.	.													714	714	697	2595														
/ 21	.2	.3	.7	.	.													437	437	650	153														
/ 19	.2	.2	.7	.	.													340	340	407	1127														
/ 17	.1	.2	.	.	.													195	195	339	788														
/ 15	.1	.1	.	.	.													155	155	169	631														
/ 13	.	.1	.	.	.													95	95	174	367														
1 / 11	.1	.1	.	.	.													87	87	80	204														
/	.1	.1	.	.	.													96	96	96	272														
/ 7	.	.	.	.	.													41	41	42	135														
/ 5	.	.	.	.	.													36	36	46	107														
/ 3	.	.	.	.	.													15	15	17	51														
/ 1	.	.	.	.	.													4	4	6	26														
/ -	.	.	.	.	.													3	3	3	26														
- / -3																					5														
- / -5																					6														
TAL	.435	.526	.312	.2	.6	.9	4.7	3.4	2.4	1.4	.9	.5	.2	.1	.1	.	.	7886a			78778														
																		78778			78778														

SENIOR CLIMATOLOGY BRANCH
AFETAC
WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1 141 PAMSTEIN AB DL

73-81

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	33.1	33.0	38.6	39.6	48.0	54.7	57.4	57.1	52.3	44.3	38.8	34.0	44.3
S D	5.564	7.225	7.581	7.045	6.930	6.405	5.598	5.495	6.451	7.083	7.978	9.255	11.517
TOTAL OBS	635	761	837	809	837	809	837	837	810	837	810	837	9856
MEAN	32.5	32.2	37.2	37.3	45.5	52.1	54.9	54.4	50.4	43.2	37.9	33.6	42.6
S D	8.723	7.824	8.076	6.956	7.258	6.697	5.528	6.012	6.770	7.249	8.002	9.367	11.118
TOTAL OBS	837	762	837	810	837	810	837	837	810	837	810	836	9867
MEAN	32.4	31.9	36.8	38.8	49.0	56.1	58.1	56.5	51.0	43.4	37.9	33.5	43.9
S D	8.998	7.929	8.413	6.845	7.059	6.481	5.862	6.170	6.668	7.146	8.090	9.420	12.097
TOTAL OBS	837	762	837	810	837	810	837	835	810	837	810	837	9859
MEAN	33.5	34.8	42.1	47.6	57.4	64.1	66.1	66.3	59.0	47.6	40.0	34.6	49.5
S D	8.609	6.782	7.225	7.484	8.066	7.882	7.877	6.664	6.591	7.173	7.447	8.839	14.306
TOTAL OBS	837	762	837	810	837	809	837	837	810	837	809	837	9859
MEAN	36.6	39.3	47.1	52.5	61.9	68.1	70.3	71.3	65.1	52.4	43.4	37.2	53.8
S D	7.425	6.655	7.636	8.814	9.120	9.063	9.147	7.745	7.546	7.762	6.912	7.656	14.967
TOTAL OBS	837	762	837	809	837	810	837	836	809	837	810	837	9859
MEAN	37.0	40.4	48.4	53.6	63.2	69.1	71.6	72.5	66.0	53.3	43.4	37.1	54.7
S D	7.090	6.804	7.769	9.155	9.307	9.164	9.263	7.944	7.883	7.980	6.797	7.339	15.275
TOTAL OBS	837	762	837	810	837	810	837	837	809	837	809	836	9858
MEAN	34.6	36.6	44.5	50.0	59.7	66.2	68.8	68.5	60.5	48.4	40.5	35.1	51.2
S D	7.565	5.949	7.156	8.274	8.557	8.471	8.459	7.408	6.996	6.932	7.084	7.946	14.739
TOTAL OBS	836	761	837	810	837	810	837	837	810	837	810	837	9859
MEAN	33.5	34.0	40.4	43.1	52.1	58.8	61.4	60.7	54.6	45.4	39.2	34.1	46.5
S D	8.208	6.310	6.862	7.057	6.820	6.686	6.368	5.592	6.241	6.873	7.718	8.718	12.390
TOTAL OBS	837	762	836	810	836	810	837	837	810	837	810	837	9859
ALL HOURS	34.2	35.3	41.9	45.3	54.6	61.1	63.6	63.4	57.4	47.2	40.1	34.9	48.3
S D	8.335	7.581	8.661	9.815	10.180	9.839	9.566	9.446	9.014	8.152	7.793	8.709	14.085
TOTAL OBS	6693	67	6695	6478	6695	6478	6696	6693	6478	6696	6478	6694	78868

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2
FEDERAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1 147 HAMSTEIN AB DL

73-81

STATION		STATION NAME												YEARS											
HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
MEAN		31.2	31.2	35.9	36.9	44.8	51.7	53.9	54.0	49.9	42.5	36.8	32.4	41.8											
S D		7.847	6.876	7.293	6.541	6.344	6.029	5.033	5.068	5.811	6.594	7.432	8.741	10.629											
TOTAL OBS		835	761	837	808	837	809	837	837	810	825	810	837	9843											
MEAN		30.7	30.4	34.8	35.1	42.9	49.6	52.0	51.8	48.2	41.5	36.0	32.0	40.5											
S D		8.087	7.416	7.712	6.596	6.787	6.353	5.195	5.728	6.218	6.738	7.497	8.834	10.598											
TOTAL OBS		837	762	837	810	837	810	837	837	810	825	810	836	9848											
MEAN		30.6	30.2	34.5	36.4	45.4	52.4	54.3	53.4	48.8	41.7	36.1	32.0	41.4											
S D		8.323	7.614	7.961	6.435	6.297	5.788	5.125	5.530	6.095	6.737	7.594	8.874	11.229											
TOTAL OBS		837	761	837	810	837	810	837	834	810	825	810	837	9845											
MEAN		31.7	32.6	38.5	42.0	50.1	56.4	58.5	59.0	54.2	44.9	37.9	32.8	44.9											
S D		7.916	6.451	6.722	5.937	5.991	5.625	5.348	4.563	5.326	6.414	6.984	8.332	11.883											
TOTAL OBS		837	761	837	810	837	809	837	835	810	828	809	837	9847											
MEAN		34.0	35.6	41.3	44.2	51.8	57.8	59.8	60.7	57.3	48.0	40.1	34.9	47.1											
S D		6.723	5.934	6.671	6.274	6.069	5.710	5.456	4.648	5.609	6.311	6.383	7.121	11.457											
TOTAL OBS		837	762	837	809	837	810	837	836	809	828	810	837	9849											
MEAN		34.2	36.1	41.8	44.5	52.2	58.0	60.2	60.9	57.2	48.4	40.0	34.8	47.4											
S D		6.447	5.914	6.591	6.066	5.941	5.538	5.258	4.522	5.616	6.317	6.357	6.896	11.421											
TOTAL OBS		837	762	837	810	837	810	837	837	809	828	809	836	9849											
MEAN		32.5	33.7	39.7	42.8	50.8	57.1	59.2	59.6	54.9	45.5	38.1	33.3	45.7											
S D		6.909	5.682	6.682	5.986	5.874	5.493	5.178	4.634	5.458	6.335	6.691	7.475	11.682											
TOTAL OBS		836	761	837	810	837	810	837	837	809	828	810	836	9848											
MEAN		31.5	31.9	37.2	39.2	47.4	54.0	56.3	56.2	51.5	43.3	37.1	32.5	43.2											
S D		7.466	6.019	6.807	6.258	5.939	5.531	5.035	4.736	5.566	6.378	7.202	8.192	11.173											
TOTAL OBS		837	762	836	810	836	810	837	837	810	827	810	837	9849											
MEAN		32.0	32.7	37.9	40.1	48.2	54.6	56.8	57.0	52.7	44.5	37.8	33.1	44.0											
S D		7.602	6.854	7.539	7.163	6.988	6.479	5.952	5.965	6.635	6.952	7.181	8.160	11.562											
TOTAL OBS		6693	6092	6695	6977	6695	6978	6696	6690	6477	6614	6478	6693	78778											
ALL HOURS																									

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1 140 PANSTEIN AB DL

73-61

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	27.8	27.7	31.7	33.0	41.4	49.1	51.1	51.5	47.7	40.4	34.0	29.7	38.8
S D	6.197	7.848	8.655	7.448	7.379	6.690	5.583	5.602	6.072	6.797	7.898	9.262	11.497
TOTAL OBS	837	761	837	808	837	809	837	837	810	825	810	837	9843
MEAN	27.3	27.0	31.9	31.8	39.8	47.3	49.5	49.6	46.2	39.5	33.3	29.3	37.7
S D	8.576	8.250	8.933	7.429	7.391	6.913	5.746	6.275	6.497	6.887	8.006	9.341	11.317
TOTAL OBS	837	762	837	810	837	810	837	837	810	825	810	836	9842
MEAN	27.2	26.7	30.7	32.9	41.6	49.2	51.2	50.8	46.7	39.7	33.5	29.2	38.3
S D	8.777	8.573	8.952	7.207	6.945	6.362	5.590	5.876	6.345	6.915	8.129	9.399	11.738
TOTAL OBS	837	761	837	810	837	810	837	834	810	825	810	837	9845
MEAN	28.1	28.6	33.4	35.2	43.2	50.4	52.9	53.8	50.3	42.1	34.9	29.8	40.3
S D	8.362	7.490	8.233	7.085	6.954	6.509	5.828	5.153	5.800	6.611	7.554	8.965	11.764
TOTAL OBS	837	761	837	810	837	809	837	835	810	828	809	837	9847
MEAN	29.7	29.9	33.7	34.4	42.3	49.8	52.2	53.1	50.6	43.5	35.8	31.2	40.6
S D	7.395	7.237	8.839	7.898	7.291	6.592	5.987	5.593	6.574	6.753	7.345	7.958	11.323
TOTAL OBS	837	762	837	809	837	810	837	836	809	828	810	837	9849
MEAN	29.7	29.8	33.3	33.9	42.0	49.6	52.0	52.7	50.4	43.6	35.5	31.1	40.3
S D	7.225	7.399	9.293	7.950	7.335	6.496	5.855	5.479	6.493	6.710	7.534	7.971	11.310
TOTAL OBS	837	762	837	810	837	810	837	837	809	828	809	836	9849
MEAN	28.8	29.0	33.0	34.0	42.2	49.9	52.3	53.1	50.4	42.6	34.8	30.2	40.1
S D	7.367	7.096	9.194	7.815	7.413	6.545	5.905	5.559	5.952	6.703	7.505	8.236	11.604
TOTAL OBS	836	761	837	810	837	810	837	837	809	828	810	836	9848
MEAN	28.0	28.1	32.4	34.0	42.7	50.1	52.4	52.8	48.8	41.0	34.2	29.7	39.6
S D	7.760	7.143	8.768	7.429	7.095	6.311	5.596	5.282	5.865	6.627	7.792	8.756	11.649
TOTAL OBS	837	762	836	810	836	810	837	837	810	827	810	837	9849
MEAN	28.3	28.3	32.4	33.6	41.9	49.4	51.7	52.2	48.9	41.6	34.5	30.0	39.6
S D	8.027	7.723	8.921	7.598	7.252	6.613	5.847	5.763	6.430	6.920	7.767	8.779	11.569
TOTAL OBS	6693	6092	6695	6477	6695	6478	6696	6690	6477	6614	6478	6693	78778

RELATIVE HUMIDITY

JAN
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN.	0-02	100.0	100.0	100.0	100.0	99.6	98.2	84.2	59.9	18.8	81.4	835
	3-05	100.0	100.0	100.0	100.0	99.8	98.7	84.0	55.7	18.4	81.4	837
	6-08	100.0	100.0	100.0	100.0	99.8	98.3	83.6	59.6	16.6	81.3	837
	9-11	100.0	100.0	100.0	99.9	99.4	98.1	83.0	50.5	16.0	80.6	837
	12-14	100.0	100.0	100.0	99.6	99.3	93.8	68.5	38.0	10.4	76.7	837
	15-17	100.0	100.0	100.0	99.6	98.8	92.0	65.4	38.6	7.4	75.6	837
	18-20	100.0	100.0	100.0	100.0	99.8	97.4	80.9	49.3	12.4	79.6	836
	21-23	100.0	100.0	100.0	100.0	100.0	98.0	83.4	54.4	15.4	80.6	837
TOTALS		100.0	100.0	100.0	99.9	99.6	96.8	79.1	49.6	14.7	79.7	6692

GLOBAL CLIMATOLOGY BRANCH
METAC
A WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1 14.1
STATION

AMSTEIN AB DL

73-81

7-11

STATION NAME

PERIOD

MONITORING

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP.	0-02	100.0	100.0	100.0	99.9	99.6	97.1	83.5	61.5	19.3	81.2	761
	3-05	100.0	100.0	100.0	100.0	99.7	98.0	84.4	63.5	19.0	81.5	762
	06-08	100.0	100.0	100.0	100.0	99.7	98.2	83.0	59.5	16.6	81.1	761
	09-11	100.0	100.0	100.0	100.0	99.8	95.5	72.7	47.2	12.6	76.4	761
	12-14	100.0	100.0	100.0	98.4	90.7	72.8	46.6	27.2	7.7	70.1	762
	15-17	100.0	100.0	99.5	96.6	85.8	66.1	40.7	23.5	6.4	67.6	760
	18-20	100.0	100.0	100.0	99.1	96.7	89.0	60.1	33.5	9.3	74.6	761
	21-23	100.0	100.0	100.0	99.6	99.2	96.6	78.9	51.6	16.7	79.4	762
TOTALS		100.0	100.0	99.9	99.2	96.3	89.2	68.8	45.8	13.3	76.7	6092

1 14 RANSTEIN AB DL
STATION

73-81

444
MONT

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
MAY	00-05	100.0	100.0	100.0	99.4	97.8	91.0	72.3	43.0	10.6	77.1	637
	06-10	100.0	100.0	100.0	99.8	98.6	92.7	76.0	47.6	13.9	78.5	937
	11-15	100.0	100.0	100.0	100.0	99.3	93.1	77.5	48.1	13.3	79.8	837
	16-19	100.0	100.0	99.9	98.8	93.2	79.2	54.4	30.1	7.3	72.1	837
	20-23	100.0	99.9	97.5	90.7	73.8	52.4	28.1	10.3	2.4	61.4	837
JUNE	00-05	100.0	99.5	95.7	84.3	65.9	40.7	23.5	8.6	2.9	58.1	637
	06-10	100.0	99.9	98.2	93.1	82.8	63.3	38.9	15.4	3.6	65.5	637
	11-15	100.0	100.0	100.0	98.4	94.9	83.9	60.2	32.2	9.2	73.7	836
	16-19											
	20-23											
TOTALS		100.0	99.9	98.9	95.6	88.3	74.5	53.9	27.4	7.9	71.6	6695

1- 140	AMSTEIN AB DL	73-81	APR
STATION	STATION NAME	PERIOD	MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1-5	10-02	100.0	100.0	100.0	99.6	98.7	91.3	75.1	47.0	11.1	77.8	895
	12-05	100.0	100.0	100.0	99.9	99.4	95.8	83.7	61.7	14.3	80.8	810
	6-08	100.0	100.0	100.0	99.6	99.1	95.1	81.0	54.9	12.2	79.8	810
	10-11	100.0	100.0	99.4	92.7	77.9	56.8	36.8	18.5	2.6	64.1	810
	17-14	100.0	99.9	92.2	72.3	48.2	31.0	19.2	9.1	1.6	52.0	809
	19-17	100.0	99.3	85.8	61.7	44.0	29.6	19.8	8.6	2.0	50.7	810
	18-21	100.0	99.8	93.6	78.0	57.5	41.5	29.0	12.8	1.5	57.1	810
	21-23	100.0	100.0	99.9	98.1	92.5	78.0	54.1	27.7	6.9	71.6	810
TOTALS		100.0	99.9	96.4	87.7	77.1	64.9	49.8	29.8	6.5	66.8	6477

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

13140
STATION

RAMSTEIN AB DL

STATION NAME

73-81

PERIOD

MAY
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		
MAY	00-05	100.0	100.0	100.0	99.0	97.5	93.2	79.1	45.6	11.0	74.3	837
	06-11	100.0	100.0	100.0	99.6	98.7	95.8	85.4	55.9	14.7	87.7	837
	12-17	100.0	100.0	100.0	99.8	96.8	90.2	73.0	41.5	9.4	76.6	837
	18-23	100.0	100.0	98.7	90.7	74.2	49.6	29.2	11.1	1.6	61.9	837
	24-29	100.0	99.9	91.9	71.9	46.2	26.2	15.5	6.0	.2	51.1	837
	30-31	100.0	99.9	86.1	61.5	41.3	23.9	12.9	5.3	.1	45.6	837
	01-06	100.0	99.9	93.2	76.7	56.6	36.7	21.9	8.7	.8	54.9	837
	07-12	100.0	100.0	99.9	97.6	92.2	80.5	60.5	27.4	4.4	71.6	836
	13-18											
	19-24											
	25-31											
	TOTALS	100.0	100.0	96.2	87.1	75.4	62.0	47.2	25.2	5.3	56.4	6695

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

1 140
STATION

AMSTEIN AB DL
STATION NAME

73-81

PERIOD

JUN
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%
JUN	7-32	100.0	100.0	100.0	100.0	99.3	96.5	88.4	57.9	19.5	81.3	679
	8-15	100.0	100.0	100.0	100.0	100.0	98.5	91.9	65.8	26.5	84.1	810
	16-38	100.0	100.0	100.0	99.6	98.6	93.5	80.7	42.5	12.5	78.4	810
	39-11	100.0	100.0	98.6	93.2	80.3	57.5	31.7	15.1	2.0	62.8	879
	12-14	100.0	99.6	95.6	81.5	55.6	30.7	16.4	8.9	2.0	54.3	810
	15-17	100.0	99.3	93.5	76.8	48.9	26.8	14.6	6.5	1.4	52.4	810
	18-20	100.0	99.8	96.2	87.2	64.9	39.5	23.1	10.7	2.8	58.7	810
	21-23	100.0	100.0	99.8	98.8	95.2	84.9	64.0	32.7	8.9	74.0	810

RELATIVE HUMIDITY

JUL
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	0-02	100.0	100.0	100.0	99.8	99.6	94.6	84.0	50.2	15.4	30.0	837
	03-05	100.0	100.0	100.0	100.0	100.0	95.9	90.4	58.3	23.2	82.6	837
	06-08	100.0	100.0	100.0	99.6	99.2	92.8	81.2	42.4	13.0	79.3	837
	09-11	100.0	100.0	98.9	95.5	84.0	58.3	33.0	10.2	3.0	63.9	837
	12-14	100.0	99.5	95.8	83.4	56.3	31.8	16.6	6.6	2.4	54.9	837
	15-17	100.0	99.3	94.7	76.9	47.4	26.6	15.7	5.9	1.3	52.3	837
	18-20	100.0	99.6	97.3	88.8	65.8	37.0	23.8	9.2	1.8	57.8	837
	21-23	100.0	100.0	99.9	98.7	96.3	82.4	65.0	27.5	6.6	73.2	837
TOTALS		100.0	99.8	98.3	92.8	81.1	64.9	51.2	26.5	8.3	67.9	6696

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

10 140
STATION

RAMSTEIN AB DL
STATION NAME

73-81

PERIOD

AUG
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
7-00	00-02	100.0	100.0	100.0	100.0	99.5	94.9	91.3	55.1	27.2	61.9	837
	03-05	100.0	100.0	100.0	100.0	100.0	97.6	93.4	62.8	27.1	64.2	837
	06-08	100.0	100.0	100.0	100.0	99.5	96.4	88.7	53.2	20.7	61.5	834
	09-11	100.0	100.0	100.0	96.9	85.0	62.5	37.7	12.7	3.4	65.4	835
	12-14	100.0	100.0	97.6	81.7	53.5	31.6	17.9	6.5	1.1	54.6	836
	15-17	100.0	100.0	95.3	75.1	45.4	24.9	13.7	4.9	.7	51.7	837
	18-20	100.0	100.0	96.3	89.5	68.8	48.3	27.8	10.0	1.9	61.0	837
	21-23	100.0	100.0	100.0	99.9	98.2	89.8	72.5	32.6	9.4	71.9	837
TOTALS		100.0	100.0	98.9	92.9	81.2	68.3	55.4	29.7	10.6	59.4	6690

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1 140 STATION RAMSTEIN AB DL 73-81 PERIOD SEP 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%		
SEP	00-02	100.0	100.0	100.0	100.0	99.9	98.3	90.7	65.9	36.7	84.8	410
	03-05	100.0	100.0	100.0	100.0	100.0	99.4	91.4	66.3	41.6	86.0	610
	06-08	100.0	100.0	100.0	100.0	100.0	99.6	93.0	65.1	36.7	85.4	410
	09-11	100.0	100.0	100.0	99.9	96.5	82.8	61.2	30.2	11.1	73.7	610
	12-14	100.0	100.0	99.9	92.7	74.5	49.2	26.9	9.9	2.7	61.1	679
	15-17	100.0	100.0	99.6	90.7	69.6	42.8	22.9	7.2	1.7	58.9	809
	18-20	100.0	100.0	99.9	99.5	92.3	76.6	54.0	23.7	6.2	70.6	809
	21-23	100.0	100.0	100.0	100.0	99.4	96.4	86.9	53.7	22.3	81.3	610
TOTALS		100.0	100.0	99.9	97.9	91.5	80.6	65.0	40.3	19.9	75.2	6477

ALBANY CLIMATOLOGY BRANCH
ALBANY
ALBANY WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1	140	AMSTEIN AB DL
STATION		STATION NAME

73-81

PERIOD

50T
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		
JULY	0-02	100.0	100.0	100.0	100.0	100.0	98.9	95.6	77.1	37.0	80.2	625
	3-05	100.0	100.0	100.0	100.0	100.0	99.8	97.6	77.8	39.5	86.6	605
	6-08	100.0	100.0	100.0	100.0	100.0	99.8	97.7	79.0	37.3	86.4	625
	9-11	100.0	100.0	100.0	99.9	99.5	97.3	87.4	57.0	19.7	81.0	605
	12-14	100.0	100.0	100.0	99.3	94.9	81.5	58.1	30.4	9.3	70.7	604
	15-17	100.0	100.0	99.9	98.9	93.1	77.7	55.7	26.2	5.2	70.9	605
	18-20	100.0	100.0	100.0	100.0	99.9	97.2	85.7	55.0	16.3	80.8	604
	21-23	100.0	100.0	100.0	100.0	100.0	99.2	94.1	70.9	27.9	84.5	627
TOTALS		100.0	100.0	100.0	99.8	98.4	93.9	84.0	59.2	24.0	81.3	6614

1	14	HAMSTEIN AB DL	73-81	NOV
STATION		STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80	90		
NV	00-02	117.0	100.0	100.0	100.0	99.6	98.0	89.4	64.9	23.5	-3.1	810
	03-05	107.0	100.0	100.0	99.6	99.6	98.1	90.7	60.1	25.3	-27.9	817
	06-08	100.0	100.0	100.0	100.0	99.9	98.4	91.5	68.6	23.3	-34.2	810
	09-11	100.0	100.0	100.0	100.0	100.0	98.6	88.5	60.1	19.8	-40.1	809
	12-14	100.0	100.0	100.0	99.8	98.1	89.5	65.8	34.0	7.8	-75.7	810
	15-17	100.0	100.0	100.0	99.1	97.2	86.9	64.0	23.5	8.9	-74.5	809
	18-20	100.0	100.0	100.0	100.0	99.9	95.4	83.1	54.7	19.1	-47.5	817
	21-23	100.0	100.0	100.0	100.0	99.6	97.3	86.8	60.0	24.2	-32.3	817
TOTALS		100.0	100.0	100.0	99.8	99.2	95.3	82.4	55.5	19.5	-40.7	6475

FEDERAL CLIMATOLOGY BRANCH
SAFEAC
AT WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1	142	AMSTEIN AB EL
STATION		STATION NAME

73-81

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
0-1	0-02	100.0	100.0	100.0	100.0	100.0	98.8	87.5	67.0	36.3	84.8	637
	3-05	100.0	100.0	100.0	100.0	100.0	98.9	88.6	68.4	37.4	84.6	636
	06-08	100.0	100.0	100.0	100.0	100.0	98.8	90.3	61.1	33.8	84.3	837
	9-11	100.0	100.0	100.0	100.0	100.0	98.2	86.0	62.7	28.9	82.8	837
	12-14	100.0	100.0	100.0	99.5	98.9	93.0	76.6	51.8	19.7	79.4	837
	15-17	100.0	100.0	100.0	99.4	98.8	93.1	74.4	51.0	21.7	79.4	836
	18-20	100.0	100.0	100.0	100.0	99.6	98.4	83.5	59.6	29.8	82.7	836
	21-23	100.0	100.0	100.0	100.0	99.8	98.6	86.9	66.8	35.8	84.4	837
TOTALS		100.0	100.0	100.0	99.9	99.6	97.2	84.2	61.1	37.4	82.8	6608

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1 14 1977-81 RAMSTEIN AB DL 77-81 ALL
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.9	99.6	96.8	79.1	49.6	14.7	79.7	6693
FEB		100.0	100.0	99.9	99.2	96.3	89.2	68.8	45.8	13.3	76.7	6092
MAR		100.0	99.9	98.9	95.6	88.3	74.5	53.9	29.4	7.9	71.6	6693
APR		100.0	99.9	96.4	87.7	77.1	64.9	49.8	29.8	6.5	66.6	6477
MAY		100.0	100.0	96.2	87.1	75.4	62.0	47.2	25.2	5.3	65.4	6695
JUN		100.0	99.8	98.0	92.1	80.4	66.0	51.3	27.2	9.5	68.2	6473
JUL		100.0	99.6	98.3	92.8	81.1	64.9	51.2	26.5	8.3	67.9	6695
AUG		100.0	100.0	98.9	92.9	81.2	68.3	55.4	29.7	10.6	69.4	6695
SEP		100.0	100.0	99.9	97.9	91.5	80.6	65.9	40.3	19.9	75.2	6477
OCT		100.0	100.0	100.0	99.8	98.4	93.9	84.0	59.2	24.0	81.3	6514
NOV		100.0	100.0	100.0	99.8	99.2	95.3	82.4	55.5	19.5	80.7	6475
DEC		100.0	100.0	100.0	99.9	99.6	97.2	84.2	61.1	30.4	82.8	6093
TOTALS		100.0	100.0	98.9	95.4	89.0	79.5	64.4	40.1	14.2	73.7	70773

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.

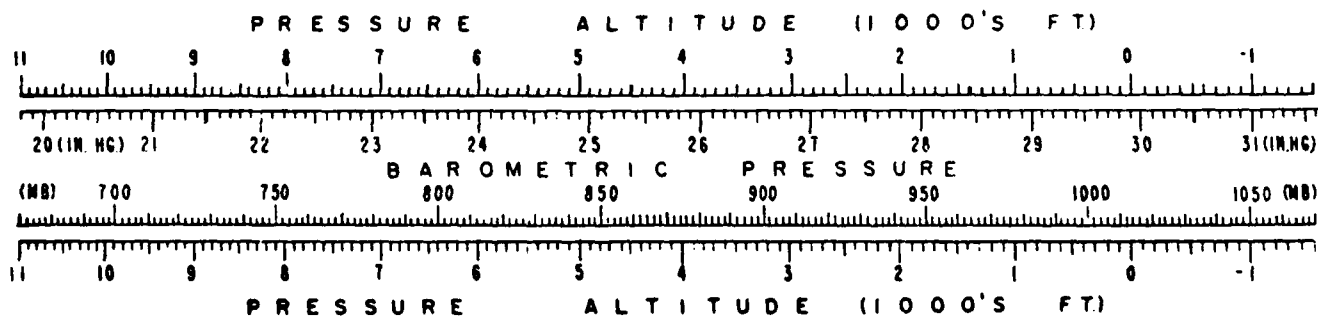
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.

2. Sea-level pressure is presented in millibars.

DATA NOT AVAILABLE

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



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MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

1 147 RAMSTEIN AB DL

73-81

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	29.199	29.146	29.113	29.136	29.139	29.190	29.186	29.214	29.229	29.165	29.236	29.130	29.174
S D	.322	.337	.266	.196	.186	.155	.143	.138	.185	.265	.283	.377	.253
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287
MEAN	29.194	29.136	29.102	29.127	29.131	29.184	29.177	29.277	29.222	29.155	29.229	29.123	29.165
S D	.319	.339	.265	.198	.190	.156	.143	.141	.188	.268	.282	.380	.254
TOTAL OBS	279	254	279	270	279	270	278	279	270	278	270	279	3285
MEAN	29.189	29.141	29.108	29.136	29.143	29.196	29.186	29.215	29.229	29.155	29.229	29.121	29.171
S D	.316	.343	.268	.201	.192	.158	.146	.141	.190	.272	.284	.379	.255
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	269	279	3286
MEAN	29.210	29.157	29.127	29.144	29.146	29.200	29.190	29.224	29.244	29.173	29.249	29.141	29.184
S D	.318	.345	.270	.203	.191	.157	.145	.139	.188	.274	.283	.379	.256
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287
MEAN	29.197	29.154	29.111	29.127	29.133	29.189	29.180	29.211	29.227	29.161	29.235	29.128	29.171
S D	.316	.339	.261	.200	.188	.153	.142	.135	.184	.271	.280	.376	.252
TOTAL OBS	279	253	279	269	279	270	279	279	269	279	270	279	3284
MEAN	29.186	29.134	29.087	29.104	29.117	29.173	29.164	29.196	29.207	29.146	29.219	29.118	29.154
S D	.318	.334	.255	.197	.184	.151	.141	.132	.181	.265	.279	.373	.249
TOTAL OBS	279	254	279	270	279	270	279	279	269	279	270	279	3286
MEAN	29.197	29.148	29.096	29.108	29.115	29.168	29.158	29.190	29.211	29.161	29.230	29.129	29.159
S D	.320	.333	.254	.195	.177	.150	.142	.133	.180	.263	.284	.374	.249
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287
MEAN	29.201	29.156	29.112	29.133	29.141	29.191	29.178	29.214	29.230	29.172	29.236	29.138	29.175
S D	.322	.335	.256	.197	.178	.151	.140	.136	.184	.265	.291	.375	.251
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	278	3286
ALL HOURS	29.197	29.146	29.107	29.127	29.133	29.186	29.177	29.209	29.225	29.161	29.233	29.126	29.169
S D	.318	.338	.262	.198	.186	.154	.143	.137	.185	.268	.283	.377	.252
TOTAL OBS	2232	2031	2232	2159	2232	2160	2231	2232	2158	2231	2159	2231	26288

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