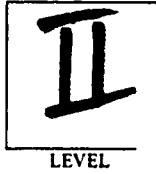


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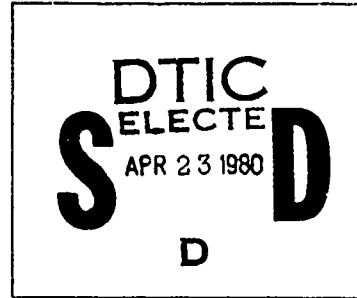
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USAFETAC/DS-80/035

**DATA PROCESSING DIVISION  
USAFETAC  
Air Weather Service ( MAC )**

REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

BAD TOLZ GERMANY AAF WBAN # 34197  
N 47 46 E 011 36 ELEV 2360 FT EDOV WMO # 10971

PARTS A-F  
POR FROM HOURLY OBS SEP 64-DEC 70  
POR FROM DAILY OBS SEP 64-FEB 65, JUN 66-DEC 70

JAN 26 1972

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SUSAN V. BERRY, 2 Lt, USAF  
Information Retrieval  
Manager

FOR THE COMMANDER

  
WALTER S. BURGMANN  
Scientific & Technical  
Information Officer

10-22-80  
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17 DISTRIBUTION STATEMENT* (of the abstract entered in Block 20, if different from Report)		
18 SUPPLEMENTARY NOTES		
19 KEY WORDS (Continue on reverse side if necessary and identify by block number)		
*RUSSWO	Daily temperature	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 Bad Tolz AAF, Bad Tolz, Germany		
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)		

DD FORM 1 JAN 73 1473

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

\*Germany

\*Bad Tolz AAF, DL

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 occurrence tables.

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DATA PROCESSING DIVISION  
UCAFFTAC OL-1  
AIR WEATHER SERVICE (MAC)

# 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 reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

## DESCRIPTION OF SUMMARIES

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

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

### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA DATA NOT AVAILABLE

### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

### PART C SURFACE WINDS

### PART D CEILING VERSUS VISIBILITY

SKYCOVER

### PART E DAILY MAX, MIN, & MEAN TEMP DATA NOT AVAILABLE

EXTREME MAX & MIN TEMP DATA NOT AVAILABLE

PSYCHROMETRIC-DRY VS WET BULB

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

RELATIVE HUMIDITY

### PART F STATION PRESSURE

SEA LEVEL PRESSURE

## STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

## MISSING HOUR GROUPS

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

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY 00-02 \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER 00-02, 21-23 \_\_\_\_\_

MARCH 00-02, \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER 00-02, 21-23 \_\_\_\_\_

STATION NO OR SUMMARY 31197	STATION NAME BAD TOLZ GERMANY AAF	LATITUDE N 47 46	LONGITUDE E 011 36	STATION ELEV (FT) 2360	CALL SIGN EDOV	WMO NUMBER 10971
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### 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)	HGT. WIND BAKOMETER	
1	Bad Tolz Germany	AAF	Sep 64	Feb 66	N 47 46	E 011 36	2360	2355	9 to 14
2	No change	AAF	Mar 66	Jun 66	No chge	No chge	No chge	2351	14
3	No change	AAF	Jul 66	Feb 68	No chge	No chge	No chge	2354	17
4	No change	AAF	Mar 68	Dec 70	No chge	No chge	No chge	2353	13 to 17

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Sep 64 to Feb 65	Located on top of operations bldg.	AN/GMQ-11	None	46 ft	
2	Mar 65 to Feb 66	No change	No chge	None	76 ft	
3	Mar 66 to Feb 68	Located on top of control tower.	No chge	None	79 ft	
4	Mar 68 to Dec 70	No change	No chge	None	50 ft	



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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.

Occurrences of 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 - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

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 total columns.

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.

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.

1  
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 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

34197      BAD TOLZ GERMANY AAF      64-70      66  
 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	SLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	ALL	.0	5.4		19.3		23.6	15.3	9.9	.1		21.1	2547
FEB			9.6	.1	14.3		23.3	14.9	8.8	.6		22.2	2431
MAR			6.5		18.3		23.8	19.2	11.6	.3		29.1	2974
APR		.1	15.6		8.3		23.3	16.3	12.9			24.7	245
MAY		1.2	22.7		1.1		23.4	12.4	8.2			18.4	2513
JUN		8.0	24.7			.0	24.7	21.2	20.6			26.4	2627
JUL		3.0	12.2				12.2	8.6	5.0			12.2	2514
AUG		1.9	16.3			.0	16.8	26.1	14.0			31.4	2712
SEP		.4	10.7				10.7	27.8	19.1			36.1	2731
OCT		.1	8.3		1.2		9.1	15.4	6.6			19.1	2425
NOV			10.3	.2	9.5		19.2	30.4	9.6			34.1	3144
DEC			7.9	.2	20.8		28.0	26.6	9.3			32.9	2875
TOTALS		1.2	12.6	.0	7.7	.0	19.8	19.5	11.3	.1		25.7	33247

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 USAF ETAC  
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WEATHER CONDITIONS

34197      BAD TOLZ GERMANY AAF      65-70

STATION      STATION NAME      YEARS      MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	00-02												
	03-05		6.6		27.4		32.7	22.6	12.4	.4		2.0	223
	06-08		6.2		29.2		32.4	24.8	11.2	.2		31.5	447
	09-11		5.6		27.5		31.8	20.9	9.3			26.0	516
	12-14		5.4		22.6		26.2	14.6	16.0			25.0	50
	15-17		7.9		22.2		29.3	13.2	17.9	.2		27.0	472
	18-20	.3	11.5		26.3		36.3	26.3	12.6			33.0	353
	21-23												5
TOTALS		.0	5.4		19.3		23.6	15.3	9.9	.1		21.0	2547

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**WEATHER CONDITIONS**

34197      BAD TOLZ GERMANY AAF      65-70  
 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
FEB	00-02		16.7				16.7						0
	03-05		10.7	.4	20.6		30.9	16.5	5.3	.4		20.2	243
	06-08		9.8		20.5		28.8	16.3	7.0	.7		20.7	40
	09-11		11.4		18.7		29.2	17.0	10.1	1.3		24.0	405
	12-14		9.5		18.2		27.3	12.1	10.2	.6		19.9	442
	15-17		8.9		16.5		24.9	10.6	10.8	.7		20.4	461
	18-20		10.1		20.1		23.8	12.8	10.3	1.1		23.2	35
	21-23							33.3	16.7			50.0	0
TOTALS			9.6	.1	14.3		23.3	14.9	8.8	.6		22.3	2431

DATA PROCESSING DIVISION  
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 AIR WEATHER SERVICE/1AC

**WEATHER CONDITIONS**

34197      BAD TOLZ GERMANY AAF      65-70  
 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	SLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAR	00-02												
	03-05		8.7		24.6		33.0	30.8	5.1	.7		37.2	27
	06-08		8.1		22.6		28.9	29.2	10.8	.2		36.7	27
	09-11		8.2		22.0		28.5	22.0	7.5	.2		31.	38
	12-14		7.7		20.1		26.7	17.9	14.5			30.2	30
	15-17		6.6		19.5		24.6	15.8	16.8	.2		32.3	50
	18-20		6.0		20.0		24.9	18.9	17.8	.6		35.7	442
	21-23												1
TOTALS			6.5		18.3		23.8	19.2	11.6	.3		29.0	2974

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**WEATHER CONDITIONS**

34197

BAD TOLZ GERMANY AAF

65-70

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
APR	00-02		15.3				15.3	23.7	18.6			30.5	77
	03-05		15.2		16.0		30.8	18.4	4.8			21.2	21
	06-08		17.1		13.0		28.7	22.0	12.5			29.4	527
	09-11		13.2		11.2		24.0	16.6	14.3			26.3	527
	12-14	.4	13.4		8.4		20.7	9.3	14.0			21.1	327
	15-17	.2	13.1		8.6		21.0	10.1	14.8			21.7	334
	18-20	.4	17.7		9.3		26.4	13.4	12.2			21.6	40
	21-23		19.8				19.8	17.0	12.3			21.7	10
TOTALS		.1	15.6		8.3		23.3	16.3	12.9			24.2	3143

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 USAF ETAC  
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

34197      BAA TULZ GERMANY AAF      65-70  
 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
MAY	00-02		17.9				17.9	10.3	15.4			23.1	3
	03-05	.5	17.1		.5		17.6	18.6	7.0			21.1	13
	06-08	.4	20.7		2.2		22.2	17.9	7.8			21.4	507
	09-11	.2	22.5		1.3		22.9	12.7	6.3			17.3	547
	12-14	1.9	24.7		1.9		26.2	10.6	5.1			15.2	527
	15-17	2.3	26.7		1.5		28.0	9.0	3.5			11.1	321
	18-20	4.1	24.9		1.0		26.0	10.2	5.1			14.2	373
	21-23		26.7				26.7	10.0	15.0			25.0	6
TOTALS		1.2	22.7		1.1		23.4	12.4	8.2			18.6	2413



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WEATHER CONDITIONS

34197      BA3 TOLZ GERMANY AAF      65-70  
 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
JUN	00-02		33.3				33.3	66.7	66.7			66.7	
	03-05		23.3				23.3	23.8	12.6			26.7	2
	06-08		22.4				22.4	16.7	9.2			20.7	522
	09-11	.4	17.4				17.4	8.8	8.2			15.3	522
	12-14	2.9	19.7			.2	19.7	5.9	5.9			10.9	512
	15-17	4.7	20.3				20.3	5.5	5.1			10.1	517
	18-20	10.1	24.9				24.9	5.9	2.4			8.7	33
	21-23	45.5	36.4				36.4	36.4	54.5			54.5	11
TOTALS		8.0	24.7			.0	24.7	21.2	20.6			26.6	2627

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/AC

WEATHER CONDITIONS

34197

8AB TDLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	00-02												
	03-05	2.3	13.6				13.6	26.7	9.5			31.7	27
	06-08	.8	16.6				16.6	14.5	8.1			27.4	54
	09-11	.4	13.1				13.1	8.1	8.1			14.1	52
	12-14	1.2	10.3				10.3	4.8	4.3			8.7	474
	15-17	6.6	17.1				17.1	3.1	2.0			5.7	45
	18-20	10.0	15.0				15.0	2.7	2.9			5.3	33-
	21-23												4
TOTALS		3.0	12.2				12.2	8.6	5.0			12.2	2514

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WEATHER CONDITIONS

34197      BAS TDLZ GERMANY AAF      65-70  
 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	FCG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	00-02							100.0	50.0			100.0	2
	03-05		20.2				20.2	26.3	9.9			33.3	240
	06-08	.4	19.1				19.1	24.3	11.8			30.0	344
	09-11		19.1				19.1	15.2	12.9			24.7	524
	12-14	1.5	21.2				21.2	9.1	11.2			18.1	51
	15-17	3.3	17.9				17.9	7.3	8.6			14.3	421
	18-20	3.2	16.8			.3	17.1	6.4	7.2			12.0	370
	21-23	6.7	20.0				20.0	20.0				20.0	10
TOTALS		1.9	16.8			.0	16.8	26.1	14.0			31.6	2712

1 DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

34197      BAD TOLZ GERMANY AAF      64-70  
 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
SEP	00-02		9.7				9.7	48.4	32.3			54.	1
	03-05	.4	11.0				11.0	46.6	11.0			50.	23
	06-08	.2	11.7				11.7	34.6	11.1			37.7	5
	09-11		10.6				10.6	16.9	12.5			25.2	50
	12-14	.2	7.5				7.5	7.3	14.6			19.2	7
	15-17	.9	11.8				11.8	7.3	14.7			18.4	4
	18-20	1.3	17.0				17.0	15.5	18.8			26.4	3
	21-23		6.1				6.1	45.5	37.9			56.1	10
TOTALS		.4	10.7				10.7	27.8	19.1			36.0	273

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DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**WEATHER CONDITIONS**

34197

BAD TDLZ GERMANY AAF

64-70

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
OCT	00-02												
	03-05		13.9		.4		14.3	27.7	5.5			29.4	23
	06-08		13.0		2.9		15.0	31.9	5.6			32.4	284
	09-11		14.2		1.8		14.9	20.9	8.5			25.2	317
	12-14		9.2		1.5		10.4	15.2	12.3			23.0	27
	15-17		9.0		1.6		10.2	12.2	12.9			21.7	547
	18-20	.8	7.0		1.6		8.1	15.6	7.8			20.	312
	21-23												
TOTALS		.1	8.3		1.2		9.1	15.4	6.6			19.1	2925

1 DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

34197      BA9 TULZ GERMANY AAF      64-70  
 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
NOV	00-02												
	03-05		10.8	.7	11.2		21.6	32.8	6.3			36.4	2
	06-08		10.8		12.5		21.8	31.9	7.4			34.7	34
	09-11		8.8		9.6		17.9	28.7	10.3			32.7	5
	12-14		10.0		9.5		18.9	26.0	11.7			31.7	7
	15-17		11.7		5.8		17.3	28.3	11.8			34.7	57
	18-20		9.9	.7	8.3		17.9	34.5	9.9			34.4	44
	21-23												
TOTALS			10.3	.2	9.5		19.2	30.4	9.6			34.7	344

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DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

34197

BAP TOLZ GERMANY AAF

64-70

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
DEC	00-02												
	03-05		10.0	.5	22.3		31.4	22.3	6.4			26.7	27
	06-08		8.5	.4	21.8		29.9	28.2	6.0			32.0	371
	09-11		7.6	.3	19.1		25.0	27.2	10.1			34.0	513
	12-14		6.9		19.0		24.9	22.8	13.2			32.0	672
	15-17		6.8		20.1		26.5	26.7	11.6			34.0	540
	18-20		7.8		22.5		29.1	32.4	8.6			37.0	395
	21-23												
TOTALS			7.9	.2	20.8		28.0	26.6	9.3			32.0	2876

DATA PROCESSING DIVISION  
EPAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART B                   PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jun 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,  
~~but has been removed from the summary since that time.~~



1 DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 PRECIPITATION  
 (FROM DAILY OBSERVATIONS)

34197 BAD TOLZ GERMANY AAF

66-70

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 100	101 250	251 500	501 1000	1001 2000	OVER 2000	MEAN			GREATEST	LEAST	
	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						
SNOWFALL	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	33.9	4.8	4.8	3.2	4.8	14.5	21.0	9.7	3.2					61.3	62	7.15	10.08	4.21	
FEB	29.8	8.2	2.4	9.5	6.0	25.0	9.5	9.5						61.9	84	4.16	8.46	1.92	
MAR	37.6	14.0	5.4	5.4	5.4	19.4	10.8	2.2						48.4	93	2.81	3.61	2.32	
APR	40.0	10.0	2.2	7.8	4.4	6.7	13.3	13.3	2.2					50.0	90	5.52	7.67	2.74	
MAY	25.8	22.6	6.5	9.7	3.2	16.1	3.2	6.5	3.2	3.2				51.6	31	6.58	6.58	6.58	
JUN	27.8	16.7	2.2	6.7	5.6	7.8	7.8	16.7	8.9					55.6	90	9.33	10.22	7.74	
JUL	33.3	6.5	2.2	9.7	5.4	10.8	7.5	16.1	7.5	1.1				60.2	93	9.54	12.45	6.29	
AUG	24.7	6.5	6.5	10.8	5.4	6.5	17.2	18.3	4.3					68.8	93	2.92	3.62	7.09	
SEP	46.7	12.5	3.3	7.5	.8	9.2	13.3	3.0	1.7					40.8	120	3.61	4.86	1.60	
OCT	57.3	12.1	4.0	2.4	2.4	3.2	8.1	3.6	4.8					30.6	124	4.55	6.51	1.29	
NOV	45.0	17.5	3.3	8.3	5.8	5.0	7.5	7.5						37.3	120	2.84	4.5	1.22	
DEC	26.9	15.1	2.2	14.1	10.8	12.9	12.9	3.2						58.1	92	3.34	5.01	1.53	
ANNUAL	35.7	12.2	3.7	8.1	5.0	11.4	11.0	9.5	3.0	.4				52.1	1093	6.35			

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

PRECIPITATION  
 (FROM DAILY OBSERVATIONS)

24197 STATION BAP TOLZ GERMANY AAF STATION NAME

66-70 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
66						1.74	3.20		1.30		.77	.88	
67		.43		.91		1.88	1.00	2.23	.99	1.31	.58	.55	
68	2.48		.61	.98	2.84	1.97	1.79	2.11	1.18	1.94	.70	.56	
69	1.28	.35	.59					1.40	.45	.72	.87		
70		.98	.41	1.14						1.39			
MEAN	1.87	.39	.34	1.01	2.84	1.86	2.00	1.91	.98	1.39	.73	.66	
S. D.									.375	.503	.121		
TOTAL OBS.	62	84	93	90	31	90	93	93	120	124	120	93	1093

1  
 DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

PRECIPITATION  
 FROM DAILY OBSERVATIONS

34197      BAB TOLZ GERMANY AAF  
 STATION                      STATION NAME

66-70

YEARS

24 HOUR AMOUNTS IN INCHES  
 /BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS	
64									0	0	0	0	PRECIP DAYS	
65	0	0											PRECIP DAYS	
66								2.01 30		2.12 30			PRECIP DAYS	
67	1.05 30		.84 30		1.04 30								PRECIP DAYS	
68		.73 28											PRECIP DAYS	
69				1.17 29	.67 22	1.24 21	1.40 28						1.01 22	PRECIP DAYS
70	.44 20				.91 28	1.51 27	1.77 21	3.51 27	1.19 24			1.22 26	.85 30	PRECIP DAYS
MEAN														
S. D.														
TOTAL OBS.														

1 DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/HAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 SNOWFALL  
 (FROM DAILY OBSERVATIONS)

34197  
 STATION

BAD TOLZ GERMANY AAF  
 STATION NAME

67-70  
 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 100	101 250	251 500	501 1000	1001 2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01 0.4	05 1.4	15 2.4	25 3.4	35 4.4	45 6.4	65 10.4	105 15.4	155 25.4	255 50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120					
JAN	39.8	6.5	8.6	14.0	3.2	5.4	4.3	6.5	9.7	1.1	1.1			59.8	93	63.1	42.6	9.7
FEB	41.7	10.7	6.0	15.5	3.6	7.1	6.0	4.8	4.8					47.6	84	37.4	69.3	8.5
MAR	53.8	7.5	4.3	9.7	8.6	6.3	6.5	4.3	1.1					38.7	93	26.5	39.5	19.4
APR	64.4	4.4	5.6	8.9	2.2	5.6	2.2	3.3	3.3					31.1	90	25.0	34.9	9.5
MAY	95.2	1.6			1.6			1.6						3.2	62	3.3	6.5	TRACE
JUN	96.7	3.3													60	TRACE	TRACE	.0
JUL	100.0														62	.0	.0	.0
AUG	98.9	1.1													93	TRACE	TRACE	.0
SEP	100.0														90	.0	.0	.0
OCT	92.7	3.2		1.6		2.4								4.0	124	2.6	10.2	.0
NOV	82.2	7.8	3.3	3.3					3.3					10.0	90	8.7	23.3	.8
DEC	48.2	17.7	6.3	12.9	4.8	3.2	3.2	3.2	3.2					37.1	62	26.8	33.9	19.7
ANNUAL	75.9	5.3	2.9	3.5	2.0	2.3	1.4	2.0	2.1	.1	.1			18.8	1003	395.4		

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SNOWFALL  
 (FROM DAILY OBSERVATIONS)

34197 STATION     BAR TOLZ GERMANY AAF STATION NAME

67-70 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
67	8.3	3.3		7.7	4.9	.0	.0	.0	.0	TRACE	1.4	7.0	
68	19.3		6.7	5.1	TRACE	TRACE	.0	.0	.0	.0	.0	8.7	
69	13.6	9.4	4.6					TRACE	.0	.0	9.6		
70		9.3	3.0	9.0						2.1			
MEAN	13.73	7.33	3.43	7.27	2.43	TRACE	.00	TRACE	.00	.73	3.67	7.85	
S. D.										1.350			
TOTAL OBS.	92	84	93	90	62	60	62	93	90	120	90	62	1003

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SNOWFALL  
 (FROM DAILY OBSERVATIONS)

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

67-70 YEARS

24 HOUR AMOUNTS IN INCHES  
 /BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
64									0	0	0	0	SNOWFALL DAYS
65	0	0											SNOWFALL DAYS
66						0	0	0	0	0	0	0	SNOWFALL DAYS
67			8.7 30										SNOWFALL DAYS
68		3.0 27											SNOWFALL DAYS
69				7.4 29	TRACE 25	0 25	0 28					8.5 22	SNOWFALL DAYS
70	3.7 20				4.5 29	0 29	0 25	0 29	0 26		8.5 28	10.5 30	SNOWFALL DAYS
MEAN													
S. D.													
TOTAL OBS.													

1 DATA PROCESSING DIVISION  
 USAF HTAC  
 AFR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 SNOW DEPTH  
 (FROM DAILY OBSERVATIONS)

34197  
 STATION

BAW TOLZ GERMANY AAF  
 STATION NAME

67-70  
 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 100	101 250	251 500	501 1000	1001 2000	OVER 2000			MEAN	GREATEST	LEAST
SNOW-DEPTH	NONE	TRACE	1	2	3	4	7 12	13-24	25 36	37 48	49 60	61 120	OVER 120					
JAN	24.2		2.2	3.2	4.5	10.1	31.2	37.6	1.1					97.8	93			
FEB	19.0		1.2	4.8		8.3	31.0	27.4	8.3					81.0	84			
MAR	37.6		1.1	2.2	7.5	9.7	14.0	18.3	9.7					62.4	93			
APR	77.8		3.3	5.6	3.3	7.8	2.2							22.2	90			
MAY	100.0														62			
JUN	100.0														60			
JUL	100.0														62			
AUG	100.0														93			
SEP	100.0														90			
OCT	97.6	.8	.8	.8										1.6	124			
NOV	86.7	6.7	1.1				3.3	2.2						4.7	90			
DEC	46.3	4.8	6.3	1.6	3.3	19.4	17.7							48.4	62			
ANNUAL	72.3	1.0	1.3	1.3	1.7	5.1	8.3	7.1	1.6					26.7	3003			

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DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

24197 BAR TOLZ GERMANY AAF

64-65, 67-70

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR 67	12	9	7	5	0	0	0	0	0	0	0	9	12
68	22		14	4	0	0	0	0	0	0	1	11	
69	24	20						0	0	0	14		
70		23	30	11						2			
MEAN	22.7	19.2	17.0	6.7	.0	.0	.0	.0	.0	1.000	9.0	10.0	12.0
S. D.													
TOTAL OBS.	93	84	93	90	62	60	62	93	90	124	90	62	1003



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**EXTREME VALUES**

SNOW DEPTH  
 (FROM DAILY OBSERVATIONS)

30197 STATION BAR TOLZ GERMANY AAF STATION NAME

64-65, 67-70 YEARS

DAILY SNOW DEPTH IN INCHES  
 /BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
64									0	0	3	10	SNOW DPTH DAYS
65	16	30							11	22	20	25	SNOW DPTH DAYS
66	24	23											SNOW DPTH DAYS
68		16				0	0	0	0	0	0	0	SNOW DPTH DAYS
69		27											SNOW DPTH DAYS
70	19		30	7	5	0	0					22	SNOW DPTH DAYS
	22			29	26	23	23	0	25	0		24	SNOW DPTH DAYS
					29	29	25	20	26	0	28	30	SNOW DPTH DAYS
MEAN													
S. D.													
TOTAL OBS.													

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART C

## SURFACE WINDS

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

DATA NOT AVAILABLE

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 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "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 direction and speed, and in addition the mean wind speed 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 VAREL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: 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.

DATA PROCESSING DIVISION  
 RTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

24.97 STATION    BAD TOLZ GERMANY AAF STATION NAME    64-70 YEARS    LL MONTH  
 ALL WEATHER CLASS    LL 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	.7	.1	.0								1.4	3.7
NNE	.5	.6	.1									1.2	4.2
NE	.7	1.5	.6	.0								2.8	5.1
ENE	1.3	3.6	2.5	.4	.0							7.8	4.2
E	1.4	2.9	2.9	.6	.0							7.8	5.4
ESE	.4	.3	.1	.0								.8	4.1
SE	.3	.1	.0	.0								.4	3.3
SSE	.3	.1	.0	.0								.4	3.3
S	1.3	1.3	.5	.3	.0	.0						3.4	5.4
SSW	1.7	3.3	1.9	.5	.0	.0						7.4	5.9
SW	1.6	3.8	1.6	.1	.0							7.1	5.3
WSW	1.8	3.9	2.3	.4	.1	.0	.0					8.5	5.9
W	1.7	4.3	4.4	1.6	.2	.0						12.3	7.2
WNW	1.3	2.7	1.6	.3	.0	.0						6.8	5.3
NW	1.0	1.3	.5	.1	.0							2.9	4.8
NNW	.6	.7	.2	.0	.0							1.5	4.4
VARBL	1.2	.5	.1	.0	.0							1.8	3.7
CALM												26.7	
	17.8	31.6	19.5	4.5	.4	.0	.0					100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 33247

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 94197 RAB TOLZ GERMANY AAF YEARS 65-70 MONTH JAN  
 CLASS ALL WEATHER HOURS (L S T) ALL  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.3										.6	3.5
NNE	.4	.3	.0									.7	3.6
NF	.3	.3	.0									.6	3.4
ENE	1.5	2.6	1.5	.1								1.3	4.4
E	1.7	2.0	1.8	.3								5.7	5.3
ESE	.4	.6										.8	3.7
SE	.5	.0										.5	3.6
SSE	.3											.3	2.3
S	1.3	.7	.2	.0								.2	2.1
SSW	1.2	2.0	1.1	.2								2.2	3.6
SW	1.4	4.0	1.4	.2	.0							5.5	5.2
WSW	2.6	6.6	2.7	.7	.1							7.0	5.3
W	1.6	5.6	4.2	2.1	.2							10.2	5.9
WNW	1.1	1.9	1.8	.8								15.7	7.4
NW	.5	.6	.2	.1								2.1	6.3
NNW	.3	.3	.2	.2								1.4	5.1
VARBL	.7	.1										1.6	6.6
CALM												34.9	2.6
	15.9	27.6	17.0	4.3	.4							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 2547

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 STATION NAME BAW TOLZ GERMANY AAF YEARS 65-70 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.2	.1	.0									4.2
NNE	.3	.5	.0										4.1
NE	.3	.8	.2									1.4	4.9
ENE	1.6	2.7	1.6	.4								6.3	5.4
E	1.4	2.2	2.0	.7								7.4	6.7
ESE	.4	.2	.0									.7	3.4
SE	.1	.1										.2	2.0
SSE	.4	.2										.4	3.2
S	1.2	1.2	.7	.9	.0							3.2	7.1
SSW	1.3	3.1	2.8	1.1	.2							8.4	7.2
SW	1.7	3.7	2.5	.2								8.1	6.5
WSW	1.4	4.1	2.8	.8	.3	.0	.0					9.4	7.1
W	1.6	6.2	3.7	2.0	.6	.1						14.1	7.8
WNW	1.2	2.4	1.2	.2	.2							5.2	6.1
NW	.9	1.1	.2									2.2	4.2
NNW	.4	.2	.0	.0								.7	3.9
VARBL	.7	.1										.9	2.5
CALM												28.5	
	15.2	29.2	19.0	6.6	1.3	.1	.0					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 2421

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

14197 STATION DAB TOLZ GERMANY AAF STATION NAME 65-70 YEARS MONTH  
 CLASS ALL WEATHER 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	.9										1.6	3.6
NNE	.4	.4	.1									1.1	4.2
NE	.8	1.3	.4									2.7	4.5
ENE	1.0	2.7	2.2	.6								7.7	4.3
E	1.6	2.9	3.5	.6								8.5	4.4
ESE	.3	.3	.0									.6	3.7
SE	.2	.1										.3	2.7
SSE	.2	.1	.0									.3	3.4
S	.9	.7	.3	.4	.1							2.4	4.1
SSW	1.4	2.5	2.0	.3								7.3	4.2
SW	1.0	3.9	2.2	.3								7.4	6.1
WSW	1.6	3.8	3.5	1.0	.1							10.0	5.7
W	1.4	4.4	7.6	4.2	.7	.1						18.5	6.9
WNW	.9	2.2	2.3	.4	.0							5.3	6.6
NW	1.2	1.7	.8	.1	.0							3.1	5.1
NNW	.5	.5	.2	.0								1.2	4.4
VARBL	.6	.2										.9	2.9
CALM												19.3	
	14.9	30.8	25.3	8.1	.9	.1						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 2974

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

34197 STATION BAB TOLZ GERMANY AAF

65-70 YEARS

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	.6	.0									1.2	2.0
NNE	.3	.5	.2									1.0	4.0
NE	.2	1.4	.8	.1								2.5	5.0
ENE	1.0	3.2	2.9	.7								7.8	6.7
E	.9	3.5	3.2	.5								6.1	6.0
ESE	.3	.2	.1	.1								.7	3.0
SE	.3	.1	.1	.0								.4	4.4
SSE	.1	.2		.1								.4	4.2
S	1.0	1.6	.4	.0								3.0	4.2
SSW	1.5	3.4	1.9	.5								7.4	5.5
SW	1.0	3.9	2.3	.2								7.5	5.5
WSW	1.4	4.7	2.5	.5								6.1	6.0
W	1.9	4.9	5.7	2.1	.3	.0						14.0	7.8
WNW	1.4	3.4	2.8	.9	.1							5.7	5.4
NW	1.5	1.5	.9	.1	.0							4.0	5.0
NNW	.6	.8	.2		.0							1.6	4.0
VARBL	.3	.2	.0	.2	.0							.7	4.5
CALM												21.1	
	14.2	34.3	24.0	5.8	.5	.0						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 3245

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

STATION 34197 BAB TOLZ GERMANY AAF STATION NAME 65-70 YEARS MONTH UL  
 CLASS ALL WEATHER HOURS (LST) UL  
 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	.8	.2	.0								1.4	4.5
NNE	.6	.6	.3									1.5	4.7
NE	.6	1.2	.8									2.6	5.6
ENE	.9	3.4	4.2	.6	.0							9.1	7.1
E	.6	3.3	4.7	1.3								9.9	7.3
ESE	.4	.3	.2	.0								1.0	4.1
SE	.2	.2	.1									.5	4.5
SSE	.1	.1	.0									.2	3.9
S	1.2	1.2	.6	.3								3.3	5.5
SSW	1.4	3.6	2.3	.5								7.8	4.1
SW	1.7	3.7	1.3									6.4	5.1
WSW	1.4	4.1	2.2	.2	.1							8.0	5.9
W	2.0	4.1	3.0	.9	.1							12.2	4.1
WNW	1.2	3.4	2.6	.4	.0							7.6	4.3
NW	1.0	1.7	.8	.1								3.6	5.1
NNW	.6	.9	.3									1.8	4.5
VARBL	1.1	.7	.1	.1								1.9	3.9
CALM												21.1	
	15.5	22.2	25.5	4.5	.2							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 2912



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

36197 STATION BAF TOLZ GERMANY AAF STATION NAME 65-70 YEARS          MONTH           
 CLASS ALL WEATHER  
 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	1.6	.2									2.7	4.2
NNE	.6	.8	.2									1.4	4.2
NE	.8	1.6	1.1	.1								3.6	5.7
ENE	.9	3.0	2.9	.7	.0							7.6	7.7
E	.9	2.8	3.5	.8	.1							8.1	7.7
ESE	.2	.3	.1									.5	4.4
SE	.1	.1										.2	3.0
SSE	.1		.0									.2	3.0
S	1.3	.8	.2	.0	.0							2.4	4.4
SSW	2.4	3.1	1.3	.3								7.1	4.7
SW	1.7	3.4	1.2									6.4	5.0
WSW	2.2	3.6	1.6	.4	.0							7.8	5.5
W	1.9	4.9	3.1	.9	.1							10.9	6.4
WNW	1.4	3.2	2.0	.3		.0						7.1	5.7
NW	1.3	2.2	.8	.1								4.4	5.7
NNW	1.1	1.8	.3	.1								3.1	4.4
VARBL	1.7	1.2	.2									3.1	3.8
CALM												23.5	
	19.5	34.3	18.7	3.6	.2	.0						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 2627

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197      BAD TOLZ GERMANY AAF      65-70

STATION      STATION NAME      YEARS

ALL WEATHER

CLASS

CONDITION

MONTH

HOURS (LST)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	1.5	.2	.0								2.4	4.2
NNE	.4	.6	.2									1.1	4.4
NE	.7	1.6	1.0	.0								3.4	5.0
ENE	.9	3.6	2.6	.3								7.4	4.1
E	1.2	3.5	3.3	.6								8.5	4.9
ESE	.2	.4	.1									.7	4.4
SE	.1	.0										.2	4.0
ESE	.2	.3	.0	.0								.2	4.0
S	.8	1.4	.5	.3								2.3	3.4
SSW	1.4	3.9	1.9	.2								7.4	5.2
SW	1.8	4.5	1.2									7.5	4.2
WSW	2.6	3.7	1.7	.1								8.1	4.1
W	1.9	3.8	3.0	.6								9.3	5.1
WNW	1.8	3.3	1.7	.1								6.7	3.2
NW	1.3	2.2	1.1	.0								4.7	5.1
NNW	.8	1.8	.2									2.9	4.3
VARBL	1.1	1.0	.2	.2								2.4	4.3
CALM												27.7	
	17.9	37.0	18.6	2.4								10.1	4.1

TOTAL NUMBER OF OBSERVATIONS 2514

1

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

MONTH

ALL WEATHER  
CLASS

6  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-24	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.1	.0									2.1	3.4
NNE	.7	1.3	.2									2.4	4.5
NE	.9	3.0	1.0									3.5	5.1
ENE	1.5	3.9	3.3	.2								3.5	5.2
E	1.3	2.9	2.9	.2								4.4	5.3
ESE	.4	.2	.1									.7	3.7
SE	.2	.1										.4	2.7
SSE	.5	.1										.2	2.4
S	1.7	1.2	.5	.1	.1	.0						3.3	4.0
SSW	1.8	4.0	2.4	.3								1.2	2.7
SW	2.1	3.9	1.8	.0	.0							7.3	5.2
WSW	1.8	4.6	1.7	.2								5.3	5.2
W	1.8	3.5	2.6	.4								3.3	3.0
WNW	2.1	2.4	1.2	.2								7.0	5.0
NW	1.4	1.7	.3									3.4	4.1
NNW	1.0	.7	.3	.0								2.0	4.1
VARBL	1.7	1.1	.0									2.0	3.4
CALM												22.0	
	21.6	36.0	17.9	1.6	.1	.0						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 2712

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

MONTH

ALL WEATHER  
CLASS

111  
HOURS (LST)

CONDITION

SP&ED (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	.4	.1									1.2	3.4
NNE	.5	.7	.0									1.2	3.9
NE	.8	2.2	.6	.0								3.7	5.0
ENE	2.1	5.2	3.1	.6								11.0	6.4
E	1.6	3.9	3.4	.6								6.5	6.1
ESE	.4	.1	.1									.7	3.9
SE	.4		.0									.4	2.2
SSE	.4	.1										.5	2.9
S	1.4	1.9	.5	.3								4.1	3.1
SSW	1.8	2.6	1.2	.1								5.7	3.0
SW	1.4	3.0	.6	.0								5.0	4.7
WSW	1.8	3.2	.9	.1								6.0	4.8
W	1.5	3.5	2.2	.7	.1							7.9	5.3
WNW	1.7	2.3	1.1	.1								5.2	4.9
NW	1.5	1.3	.5	.1								3.4	4.4
NNW	.9	.6	.0									1.8	3.5
VARBL	1.8	.8	.3	.0								2.5	3.7
CALM												50.1	
	20.8	31.6	14.7	2.7	.1							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 2730

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

84197    BAD TOLZ GERMANY AAF    64-70  
STATION    STATION NAME    YEARS    MONTH  
ALL WEATHER  
CLASS  
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	.7	.6	.0									1.4	3.5
NNE	.6	.7										1.4	3.0
NE	1.6	2.0	.7	.0								4.3	4.6
ENE	1.6	3.7	2.1	.2								7.4	5.4
E	1.7	2.8	2.0	.6								7.1	4.7
ESE	.7	.2	.0	.0								1.9	3.6
SE	.4	.1										.5	2.7
SSE	.5	.1		.0								.6	3.2
S	1.6	1.9	.5	.2								4.2	4.0
SSW	1.9	3.1	1.6	.6								7.2	5.0
SW	1.8	4.0	1.2	.0								7.0	5.0
WSW	1.9	3.5	2.4	.1	.0							7.0	5.4
W	1.5	2.8	2.0	.8	.0							7.2	5.3
WNW	1.5	2.4	.6	.2								4.7	4.0
NW	.8	.6	.2	.0								1.6	4.1
NNW	.6	.8		.1								1.5	4.1
VARBL	2.4	.5	.6	.0								3.5	3.5
CALM												31.3	
	21.9	29.8	14.0	2.9	.1							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 2935

6  
1

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197  
STATION

BAF TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

MONTH

ALL WEATHER  
CLASS

LL

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.2										.7	3.2
NNE	.5	.5	.1									1.1	4.0
NE	.6	1.4	.5									2.2	5.0
ENE	1.2	4.0	2.5	.6								6.2	4.1
E	2.0	2.7	2.6	.9								7.9	4.1
ESE	.9	.3	.3	.1								1.4	4.4
SE	.4	.1	.0									.5	2.6
SSE	.6	.3										.9	3.2
S	1.5	1.5	.7	.7	.1	.0						4.7	5.4
SSW	1.7	2.9	2.2	.8	.2	.0						7.5	6.7
SW	1.6	3.8	1.4	.1								7.0	5.3
WSW	1.3	2.5	1.9	.6	.1							6.4	6.4
W	2.0	4.2	4.7	1.5	.2							12.4	7.1
WNW	1.1	2.4	1.1	.2								4.8	5.5
NW	.8	.8	.2	.0								1.7	4.2
NNW	.3	.2										.4	3.3
VARBL	1.6	.2	.2	.1	.1							2.2	4.5
CALM												28.9	
	18.4	28.0	18.2	5.5	.5	.1						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

3744

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 STATION NAME BAW TOLZ GERMANY AAF YEARS 64-70 MONTH 01  
 CLASS ALL WEATHER  
 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	.4	.2										.2	2.0
NNE	.4	.2	.0									.7	3.0
NE	.8	1.1	.1									2.1	3.7
ENE	2.1	3.5	1.0	.0								4.4	4.0
E	1.7	2.5	1.5	.0								5.7	4.1
ESE	.4	.1										.2	2.7
SE	.3	.1										.4	2.7
SSE	.3	.1										.4	2.5
S	1.3	1.1	.6	.3	.0							3.3	3.8
SSW	2.2	3.5	2.3	.6								8.7	5.7
SW	1.6	3.4	2.4	.6								9.5	5.7
WSW	1.8	4.6	3.8	.5	.1							17.9	5.3
W	1.5	4.5	6.7	2.7	.1	.1						13.7	7.9
WNW	.8	1.6	.9	.2								3.5	5.7
NW	.5	.5	.3	.0								1.3	4.0
NNW	.4	.0										.4	2.3
VARBL	1.1	.3	.1									1.4	3.2
CALM												29.4	
	17.7	27.5	19.9	9.0	.2	.1						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 2975

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

STATION 94197 STATION NAME BAR TOLZ GERMANY AAF YEARS 69 NORTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 2.5  
 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													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW		100.0										100.0	4.5
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
		100.0										100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 2



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 SAB TOLZ GERMANY AAF YEAR 66-70 MONTH \_\_\_\_\_  
STATION NAME YEAR MONTH

ALL WEATHER CLASS HOURS (LST) \_\_\_\_\_  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	.4												
NE	.9	.9											
ENE	2.7	1.8											
E	4.0	3.9	1.3										
ESE	1.3	1.3											
SE	.9	.4											
SSE	.4												
S	1.8	1.8											
SSW	.9	3.1	3.1	.9									
SW	1.3	5.3	4.0										
WSW	4.0	7.1	1.3										
W	1.3	6.6	7.1	3.1									
WNW	.4	.4	1.8										
NW	.4		1.3										
NNW			1.3										
VARBL	.4												
CALM													
	16.4	30.1	20.4	4.0								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 226

DATA PROCESSING DIVISION  
 ETAC/INAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION BAB TOLZ GERMANY AAF STATION NAME 65-70 YEARS                      NORTH                       
                     ALL WEATHER CLASS                      HOURS (L & T)                       
                     CONDITION                     

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 50	%	MEAN WIND SPEED
N													
NNE													
NE		.7										.7	3.3
ENE	1.1	2.5	.7									4.3	5.1
E	1.1	.4	.4									2.9	4.3
ESE	.2	.7										.9	4.3
SE	1.6											1.6	2.7
SSE	.2											.2	2.7
S	3.1	1.1	.2	.2								4.7	3.6
SSW	3.4	4.3	2.2	.2								10.1	5.0
SW	1.8	4.0	2.7	.7								9.2	5.0
WSW	1.6	3.1	3.1	.7								10.5	5.9
W	2.2	4.0	3.6	1.3	.7							13.9	7.3
WNW	.2	.7	.9	.4								2.2	7.4
NW		.4	.2									.7	5.0
NNW	.4	.7	.2									1.3	5.0
VAKBL	.4	.4										.8	3.5
CALM												36.9	
	17.4	25.1	16.3	3.6	.7							100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 447

DATA PROCESSING DIVISION  
 STAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 DAB TOLZ GERMANY AAF STATION NAME 65-70 YEARS MONTH 10 11  
 ALL WEATHER CASE HOURS (LST) 0000-2359  
 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	4.0
NNE		.6										.6	3.2
NE	.2	.4	.2									.7	4.5
ENE	1.9	1.2	1.0									4.1	4.4
E	1.6	.8	1.0									3.3	4.8
ESE	.2	.2										.4	3.5
SE													
SSE	.2											.2	3.0
S	1.2	.6	.4									2.1	3.7
SSW	1.0	2.7	1.6	.2								5.4	5.8
SW	1.7	3.1	1.9		.2							7.0	5.6
WSW	3.1	3.1	3.9		.4							10.5	5.7
W	.8	5.4	4.8	2.1	.4							13.6	7.8
WNW	1.0	2.3	1.2	.8								5.4	6.5
NW	.2	.2	.2									.6	5.3
NNW	.4	.8										1.2	3.7
VARBL	1.9											1.9	2.4
CALM												42.6	
	15.3	21.9	16.1	3.5	.6							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 516

DATA PROCESSING DIVISION  
 DTAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197 STATION SAB TOLZ GERMANY AAF STATION NAME 6570 YEARS        MONTH         
ALL WEATHER CLASS 12 - 14 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	3.0
NNE	.6											.2	3.3
NE	.2	.8	.2									1.2	4.4
ENE	2.0	3.0	1.8									6.8	5.4
E	2.2	2.4	2.2	.4								7.2	3.7
ESE	1.2	.2										1.4	2.7
SE	.2											.2	2.0
SSE													
S		.2										.2	4.0
SSW		1.8	.4									2.2	4.0
SW	1.0	3.0	.4	.2								6.6	4.9
WSW	2.4	3.4	2.2	.6	.2							8.8	6.0
W	2.0	4.4	7.4	2.4								16.2	7.5
WNW	2.2	3.6	2.0	.6								8.4	5.6
NW	1.2	1.2	.4	.4								3.2	5.6
NNW	.2	.4	.2									.8	5.0
VARBL	.4											.4	2.0
CALM												35.4	
	14.0	24.4	17.4	4.6	.2							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 500

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197 STATION SAB TOLZ GERMANY AAF STATION NAME 6570 YEARS MONTH 1977-17  
 HOURS (LST) 1800-1700  
 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	.6	.8										1.4	2.7
NNE	1.2	.8										2.0	2.2
NE	.6	1.8										2.4	4.2
ENE	1.4	3.9	3.0	.4								8.7	5.6
E	1.0	4.3	3.5	.8								9.4	4.8
ESE	.2	.2										.4	4.8
SE													
SSE	.4											.4	2.1
S	.4	.2										.6	2.2
SSW	.6	2.8										3.4	3.2
SW	.8	1.4	.2									2.4	4.3
WSW	1.4	4.3	1.8	1.0								8.5	4.4
W	2.2	7.1	6.8	2.2								18.1	5.9
WNW	2.0	2.0	1.8	1.2								6.9	4.5
NW	.8	1.0	.8	.4								2.0	3.9
NNW	.6	.6	1.0	.4								2.4	7.0
VARBL	.4											.4	2.5
CALM												29.9	
	14.8	31.3	17.9	6.1								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 492

DATA PROCESSING DIVISION  
 STAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 34197 NAME BAF TOLZ GERMANY AAF YEARS 66-70 MONTH \_\_\_\_\_  
 CONDITION ALL WEATHER HOURS (LST) 1800-2100

SPCED (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	.3										1.4	3.2
NNE													
NE	.6	1.1										1.7	3.3
ENE	1.1	3.1	1.7									5.9	5.0
E	2.5	2.8	2.0	.3								7.5	5.1
ESE	.3											.3	3.0
SE	.6											.6	2.8
SSE	.6											.6	2.0
S	2.2	1.4	.3									3.9	3.4
SSW	1.7	3.6	.3									5.6	4.1
SW	1.7	5.9										7.5	4.2
WSW	2.8	5.3	2.8	1.1	.6							12.6	5.3
W	.8	7.0	6.1	2.0	.3							14.2	7.4
WNW	.3	.6	1.4									2.2	7.1
NW		.3										.3	6.0
NNW		.6	1.1	.6								2.2	9.3
VARBL													
CALM												31.6	
	16.2	31.8	18.6	3.9	.6							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 250

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AFR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 84197 BAR TOLZ GERMANY AAF STATION NAME 67-68 YEARS MONTH 2100-2300  
 CLASS ALL WEATHER 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW	16.7	33.3										50.0	4.0
WSW			16.7									16.7	7.0
W													
WNW		16.7										16.7	6.0
NW													
NNW													
VARBL													
CALM												16.7	
	16.7	30.0	16.7									100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 5

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 38107 STATION NAME: BAR TOLZ GERMANY AAF YEAR: 67 MONTH: FEB  
 CLASS: ALL WEATHER HOURS (L & T): 0000-0200  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW		16.7	16.7									33.3	6.5
SW		33.3	16.7									50.0	6.7
WSW		16.7										16.7	6.0
W													
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
		66.7	33.3									100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 6



DATA PROCESSING DIVISION  
 RTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAR TOLZ GERMANY AAF YEARS 66-70 MONTH SEP  
 CLASS ALL WEATHER HOURS (L T) 0300-0500  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4		.4									.8	4.5
NNE	1.2											1.2	2.7
NE		1.2	.8									2.1	6.5
ENE	1.6	.8										2.5	3.3
E	1.6	.8	.8	.8								3.7	6.3
ESE	.8											.8	2.7
SE	.8											.8	2.7
SSE	.4											.4	2.7
S	1.6	2.5		.8								4.9	5.5
SSW	2.1	4.5	4.5	1.2								12.3	6.7
SW	1.6	4.9	4.9	.8								12.3	6.7
WSW	4.1	5.8	1.6	1.2								12.8	5.1
W	2.9	5.3	2.5	3.3	.4							14.4	7.4
WNW	.4	1.6	.4									2.8	4.5
NW													
NNW													
VARBL	.8											.8	2.7
CALM												27.6	
	20.6	27.2	16.0	8.2	.4							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 243

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 36197 STATION NAME BAR TOLZ GERMANY AAF YEARS 68-70 MONTH CC  
 CLASS ALL WEATHER HOURS (LST) 0600-0300  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.2										.2	5.0
NNE		.7	.2									.9	5.5
NE	.5	.3	.5									1.4	5.0
ENE	1.6	1.4	.7									3.7	4.7
E	1.2	.9	1.2									3.3	6.0
ESE	.9	.9										1.4	3.2
SE	.2	.2										.5	3.0
SSE	.5	.2										.7	3.3
S	2.3	2.3	.2	1.2								6.0	5.0
SSW	1.2	.7	3.3	1.2	.2							11.4	6.7
SW	1.0	2.6	3.5	.2								8.1	5.2
WSW	1.0	3.7	3.7	.9	.7	.2						10.0	7.2
W	1.4	4.9	3.7	2.1	.9	.2						13.3	5.2
WNW	1.2	.9										2.1	3.4
NW		.7										.7	4.7
NNW	.2	.2										.5	3.5
VARBL	.9											.9	1.0
CALM												34.7	
	18.1	25.8	17.0	5.1	1.9	.8						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 437

DATA PROCESSING DIVISION  
 STAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

36197 BAD TOLZ GERMANY AAF

69-70

09-11  
 MONTH  
 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		.2								1.1	2.4
NNE	.4	.4										.9	3.0
NE	.2	.2	.4									.9	3.8
ENE	1.1	1.9	1.1	.6								4.9	4.4
E	.9	.4	1.5	.2								3.9	4.0
ESE	.4											.4	2.5
SE													
SSE	.4	.6										1.1	3.0
S	1.1	.9	1.1	.9								3.5	7.2
SSW	1.5	3.4	3.0	1.7	.2							9.9	7.6
SW	1.7	3.4	1.3									6.8	5.1
WSW	.9	4.9	2.2	1.7	.9		.2					10.8	8.6
W	2.2	6.2	3.0	2.2	.4							14.0	7.0
WNW	.4	2.6	1.3	.2	.2							4.7	6.9
NW	1.3	.6	.2									2.2	3.9
NNW	.2	.4										.6	2.3
VARBL	.2	.4										.6	4.0
CALM												34.8	
	12.9	27.5	15.1	7.7	1.7		.2					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 465

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 24197 STATION NAME BAD TOLZ GERMANY AAF YEARS 65-70 MONTH 12  
 CLASS ALL WEATHER HOUR(S) 1-14  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.4										1.2	2.0
NNE	.2	.6										.9	2.2
NE	.4	1.9	.2									2.4	4.4
ENE	1.9	3.0	2.6	.2								7.7	5.7
E	1.9	2.8	4.1	1.1								10.9	6.9
ESE		.4	.2									.4	5.7
SE		.2										.2	4.0
SSE	.2											.2	2.0
S	.4	.4	.9	.6	.2							2.6	6.3
SSW	.4	1.3	2.4	.6	.2							5.0	6.0
SW	.6	3.9	1.3	.2								6.1	5.0
WSW	1.1	2.8	3.9	.9								8.7	7.2
W	.9	8.0	3.2	1.9	.4							16.5	7.4
WNW	2.2	4.1	2.6	.2								9.1	5.4
NW	.9	1.7										2.6	3.0
NNW	.4	.6										.9	3.2
VARBL	.2											.2	3.0
CALM												24.9	
	12.8	32.3	23.4	3.8	.9							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 462

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

ALL WEATHER  
CLASS

150-1700  
HOURS (L.S.T.)  
MONTH

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.2										.7	3.0
NNE	.2	.4										.7	4.0
NE	.2	1.1										1.2	4.0
ENE	2.2	5.6	3.0	1.1								11.0	5.9
E	.9	3.5	6.1	1.1								11.6	7.4
ESE		.2										.2	5.0
SE													
SSE													
S	.4	.7	.4	1.1								2.6	2.7
SSW	.9	.9	2.0	.9	.4							5.1	2.7
SW	2.0	2.6	2.0	.4								6.5	2.7
WSW	1.1	3.9	2.4	.2								7.6	6.5
W	2.2	6.5	4.6	2.6		.2						16.1	7.2
WNW	1.2	3.3	2.0	.9								7.4	4.3
NW	1.7	2.6	.9									5.2	4.5
NNW	.4		.2	.2								.5	6.5
VARBL	1.2	.2										1.8	2.4
CALM												20.4	
	15.2	21.9	22.4	8.5	.4	.2						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 461

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 24197 STATION NAME: BAD TOLZ GERMANY AAF YEARS: 66-70 MONTH: 12  
 CLASS: ALL WEATHER HOURS (LST): 200  
 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									.7	4.2
NNE		.3										.3	4.2
NE	.6											.4	3.5
ENE	1.1	2.2	1.1	.3								4.7	5.5
E	2.2	5.9	2.8	.6								11.7	5.5
ESE	.6	.6										1.1	3.5
SE													
SSE	.8	.3										1.1	3.3
S	1.4	.6	1.1	1.1								4.2	7.3
SSW	2.2	3.6	2.5	1.1								9.5	6.3
SW	2.8	4.5	3.1									10.3	5.1
WSW	1.4	3.9	2.2	.6								8.1	4.2
W	.6	5.6	2.2	.3	1.4							10.1	7.4
WNW	1.1	1.4	1.1		.8							4.5	7.5
NW	.8	.3										1.1	3.2
NNW	1.1											1.1	2.3
VARBL	1.1											1.1	2.3
CALM												29.9	
	18.4	29.1	16.5	3.9	2.2							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 352

DATA PROCESSING DIVISION  
 RTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 34197 STATION NAME: BAD TOLZ GERMANY AAF YEARS: 65,67 MONTH: 12  
 CLASS: ALL WEATHER HOURS (LST): 21  
 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													
NE													
ENE													
E			16,7	33,3								50,0	11,0
ESE													
SE													
SSE													
S													
SSW													
SW		33,3	16,7									50,0	6,3
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
		33,3	33,3	33,3								100,0	3,7

TOTAL NUMBER OF OBSERVATIONS 6

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 36197 STATION NAME BAB TOLZ GERMANY AAF YEARS 66-70 MONTH JUN  
 CLASS ALL WEATHER HOURS (LST) 00-23  
 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										1.4	4.0
NNE													
NE													
ENE	1.1	1.8	.7									3.6	5.0
E	2.9	2.5	3.6									6.0	5.5
ESE	.4	.7										1.1	3.0
SE	1.1											1.1	2.3
SSE	.7	.7										1.4	3.3
S	3.6	1.1	.4		.4							5.4	4.2
SSW	2.9	5.8	1.8	.7								11.2	5.5
SW	2.2	5.4	5.1	.4								13.1	4.0
WSW	1.8	3.6	3.6	.4								9.4	5.9
W	1.8	5.4	5.4	2.5								15.2	7.5
WNW	.7	.7	1.4									2.5	5.0
NW	.7	.4										1.1	2.7
NNW		.4										.4	4.0
VARBL													
CALM												23.4	
	19.9	30.1	22.1	4.0	.4							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 274



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

26197 BAD TOLZ GERMANY AAF 65-70 MONTH \_\_\_\_\_

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER  
 CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.5										.7	4.3
NNE	.4	.2										.7	3.7
NE	.4	.5										.9	4.1
ENE	1.1	1.3	.7	.2								3.3	5.2
E	1.6	2.2	2.2	.4								4.3	5.9
ESE	.5	.7	.2									1.4	4.5
SE	.2											.2	2.1
SSE	.5	.2	.2									.9	3.4
S	1.4	2.2	.2	.2	.2							4.1	4.1
SSW	2.2	6.5	2.7	.7	.2							12.1	5.9
SW	.7	5.0	2.7	.7								9.1	5.4
WSW	2.0	6.1	3.8	.7								12.1	5.1
W	1.1	3.8	7.2	4.8	.2							17.1	5.0
WNW	1.3	1.4	.5									3.2	4.4
NW	.7	.2	.2									1.1	4.1
NNW	.2		.2									.4	4.5
VARBL													
CALM												25.7	
	14.3	30.6	20.6	7.7	.4							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 550

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAF TOLZ GERMANY AAF YEARS 65-70 MONTH 11  
 CLASS ALL WEATHER HOURS (LST) 1900-1100  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.4										1.4	3.1
NNE		.2										.2	4.1
NE	.2	.7	.2									1.1	5.3
ENE	.7	2.7	2.0	.7								4.1	5.1
E	1.4	2.2	2.5	.9								7.0	4.5
ESE	.5	.2										.7	3.3
SE													
SSE													
S	.5	.7	.4	.4								2.0	5.6
SSW	1.1	2.5	2.0	1.1								4.4	7.1
SW	1.6	3.9	2.5	.2								8.2	5.9
WSW	2.3	4.5	3.2	.9								11.9	5.2
W	.5	5.2	7.2	3.4	1.1							17.4	9.1
WNW	.7	2.9	1.4	.5								5.4	6.1
NW	.9	1.6	.2									2.7	4.5
NNW	.4	.5	.2	.2								1.3	5.2
VARBL	.5	.5										1.1	3.1
CALM												27.0	
	12.5	28.7	21.7	8.2	1.1							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 550

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 24197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MONTH 12-14  
 CLASS ALL WEATHER  
 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	1.3										1.2	2.4
NNE	.7	.5	.2									1.4	4.4
NE	1.6	2.0	.9									4.5	5.0
ENE	.7	4.8	2.9	1.8								1.2	7.0
E	.7	3.0	3.2	1.1								1.2	7.0
ESE													
SE	.2	.2										.4	3.0
SSE	.2											.2	3.0
S	.5		.2	.5								1.2	3.4
SSW	1.1	1.3	1.4	.2								3.0	3.0
SW	.4	2.9	2.3									6.4	6.0
WSW	.9	3.0	4.1	.9								9.0	7.1
W	1.4	4.5	9.1	4.5	1.3	.5						21.2	9.4
WNW	.7	4.1	4.1	.7								9.7	7.0
NW	1.3	3.0	1.4	.4	.2							6.2	5.5
NNW	.7	1.4	.4									2.5	4.6
VARBL	.4	.2										.5	3.3
CALM												13.4	
	12.0	32.3	30.3	10.0	1.4	.5						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 551

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 34197 BAF TOLZ GERMANY AAF YEARS 65-70 MONTH ALL WEATHER  
STATION NAME CLASS HOURS (LST)

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.6	1.4										3.0	2.4
NNE	.9	1.3	.4									2.6	4.5
NE	.5	3.9	.7									5.0	5.0
ENE	.9	3.2	4.7	.5								11.3	4.7
E	1.1	2.7	6.3	.5								17.6	7.1
ESE		.2										.2	4.0
SE		.2										.2	4.0
SSE													
S	.7	.2	.9	.9								2.7	2.5
SSW	.2	1.8	2.0	.2								4.1	4.7
SW	.9	2.3	.9									4.1	5.4
WSW	.7	2.2	3.6	1.4	.2							8.1	4.0
W	2.0	4.3	9.0	5.0	.9							21.2	9.0
WNW	.9	1.6	3.4	.9								6.5	7.2
NW	2.2	3.0	2.2	.2								7.6	5.2
NNW	.9	.4	.2									1.4	4.0
VARBL	1.4	.4										1.9	2.9
CALM												9.1	
	14.9	31.2	34.1	9.7	1.1							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 35

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MON. 1  
 CLASS ALL WEATHER HOURS (LST) 2  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.4										1.3	3.1
NNE	.4	.2											2.0
N E	1.7	1.3	.2									3.2	4.3
ENE	1.7	6.0	2.2									9.9	5.9
E	2.6	4.7	3.2	.2								10.7	5.9
ESE	.6											0.6	2.0
SE													
SSE													
S													
SSW	1.9	4.3	1.7									7.9	5.9
SW	1.1	4.9	1.5	.4								8.9	5.9
WSW	2.2	3.4	2.6	1.5	.2							10.9	6.7
W	1.7	3.4	6.7	4.3	.4							16.5	7.2
WNW	.9	1.5	2.6	.2	.2							5.4	7.2
NW	1.3	1.1	.2	.2								2.8	4.2
NNW	.6	.4										1.0	3.0
VARBL	.9	.2										1.1	2.0
CALM												20.9	
	18.5	32.0	20.9	6.9	.9							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 405

DATA PROCESSING DIVISION  
 STAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 3A197 STATION NAME BAB TRIZ GERMANY AAF YEAR 68 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 21 - 22  
 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													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW	100.0											100.	2.
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	100.0											100.	2.

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

26197 STATION BAD TOLZ GERMANY AAF STATION NAME 66268 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													
NE													
ENE	1.7											1.7	2.0
E													
ESE													
SE	1.7											1.7	2.0
SSE		1.7										1.7	5.0
S	1.7											1.7	2.0
SSW	6.8	6.8	1.7									15.3	4.1
SW	3.4	5.1	3.4									11.9	5.4
WSW	1.7	8.5	3.4									13.6	5.4
W		1.7	1.7	1.7								5.1	4.7
WNW	1.7	1.7	1.7									5.1	5.2
NW	1.7		1.7									3.4	5.0
NNW													
VARBL	1.7											1.7	2.0
CALM												37.2	
	22.0	25.4	13.6	1.7								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 50

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 66-70 MONTH 3  
 CLASS ALL WEATHER HOURS (LST) 3  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.8										.7	4.1
NNE													
NE		.4										.4	4.1
ENE		1.2										1.2	5.1
E	.6	2.8	.4									4.0	5.1
ESE		.8										.8	4.1
SE													
SSE	.4											.4	2.1
S	3.6	4.8										8.4	3.7
SSW	3.6	3.6	.8	.8								10.8	4.7
SW	1.2	6.0	3.2									10.4	5.2
WSW	2.8	6.4	3.6	.4								13.2	5.7
W	.8	5.2	3.2	1.2								10.4	7.1
WNW	2.0	1.2	.4									3.6	3.7
NW	1.2											1.2	2.3
NNW	.4	.8	.4									1.6	5.1
VARBL													
CALM												32.0	
	16.8	36.0	12.0	2.4								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 23



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197      BAD TOLZ GERMANY AAF      65-70      \_\_\_\_\_  
STATION      STATION NAME      YEARS      MONTH

ALL WEATHER  
CLASS

6      0  
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	.2									.3	.3
NNE													
NE		.7	.2									.7	5.4
ENE	.4	.9	.4									1.7	5.4
E	.6	2.2	.9									3.7	5.6
ESE	1.1	.4										1.5	2.0
SE	.6											.2	2.0
SSE	.2											.2	3.0
S	2.4	2.8	.7									5.9	4.7
SSW	3.2	4.7	2.4	.2								17.4	5.1
SW	1.9	8.2	2.8	.4								13.7	5.4
WSW	1.9	6.9	2.4	.6								11.7	5.4
W	1.9	3.0	4.1	.9	.2							12.1	5.7
WNW	1.3	1.7	1.3		.2							4.5	5.0
NW	.7	.2	.2									1.1	3.0
NNW	.2	.2	.2									.1	4.7
VARBL	.2		.2									.4	5.5
CALM												30.0	
	16.6	34.1	16.0	2.0	.4							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS      537

1  
 DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MONTH 1  
 CLASS ALL WEATHER HOURS (LST) 09-11  
 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	3.4
NNF	.4	.2	.2									.7	4.3
NE	.6	1.7	.7	.2								3.2	5.7
ENE	1.1	2.8	1.7	.4								6.0	4.3
E	.9	2.2	2.4	.4								6.9	5.5
ESE		.4										.4	5.1
SE													
SSE		.4										.4	4.1
S	.4	1.1	.4	.2								2.1	5.7
SSW	.4	2.4	2.0	.9								5.7	7.3
SW	.4	2.8	2.2									6.4	6.1
WSW	1.3	4.3	3.0	.7								9.3	4.2
W	2.8	6.1	6.7	1.7	.4							17.7	7.2
WNW	1.3	6.1	3.0	1.3								11.7	4.4
NW	1.7	1.3	1.3	.4								4.7	5.4
NNW	1.1	.4	.4									1.9	3.2
VARBL	.4	.4										.7	3.5
CALM												22.7	
	13.4	33.3	24.0	6.1	.4							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 537

DATA PROCESSING DIVISION  
 STAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197  
STATION

BAW TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

NORTH

ALL WEATHER  
CLASS

12°-14°  
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	1.1										2.0	3.4
NNE	.4	.7	.4									1.5	3.5
NE	.6	2.0	.7									3.4	4.2
ENE	1.3	6.0	4.5	1.1								12.9	4.7
E	.9	2.6	4.5	1.1								9.0	7.2
ESE		.4	.2	.2								.7	7.2
SE	.2	.2		.2								.7	7.0
SSE	.2			.2								.4	7.0
S	.4	.7	.4									1.5	6.0
SSW	.4	1.9	2.0	.6								4.0	7.0
SW	.2	1.3	2.2									3.7	7.2
WSW	1.3	3.2	1.7	.6								6.7	6.2
W	1.1	3.5	8.8	3.9	.2							17.5	6.5
WNW	1.9	6.3	4.3	1.9	.2							14.6	7.1
NW	1.3	2.4	1.7	.2								5.6	6.3
NNW	1.1	1.1	.2									2.4	4.2
VARBL	.6	.2		.2	.2							1.6	6.2
CALM												11.0	
	12.7	33.7	31.5	10.1	.6							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 327

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

24197 STATION BAB TOLZ GERMANY AAF STATION NAME 65-70 YEARS MONTH 10-17 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	.6	.7										1.3	7.7
NNE	.2	1.7	.4									2.3	6.3
NE	.2	2.4	2.4	.2								5.2	6.5
ENE	1.3	3.2	6.0	2.1								12.6	7.4
E	.6	3.6	5.4	1.1								11.7	7.4
ESE	.2	.2	.4									.7	7.7
SE			.4									.4	7.5
SSE				.2								.2	12.7
S		.6	.6									1.1	6.2
SSW	.6	2.1	2.2	.6								5.4	7.7
SW	.7	2.4	1.9	.4								5.4	6.7
WSW	.6	2.4	2.1	.6								6.6	6.7
W	2.2	5.4	6.2	2.8	.4	.2						17.2	7.7
WNW	1.5	2.4	3.2	1.5								10.7	7.5
NW	1.3	2.4	1.5		.2							5.4	5.7
NNW		2.2	.2									2.4	5.3
VARBL	.2	.6		.7								1.5	9.1
CALM												10.9	
	10.1	33.3	36.8	10.1	.6	.2						100.7	6.3

TOTAL NUMBER OF OBSERVATIONS 534

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAB TOIZ GERMANY AAF YEARS 65-70 MONTH 1-2  
 CLASS ALL WEATHER HOURS (LST) 24  
 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	3.4
NNE	.6	.4										1.0	3.4
NE	.2	1.0	.4									1.6	5.4
ENE	1.2	5.2	4.1	.2								14.7	6.3
E	1.9	7.6	4.9	.4								14.8	5.9
ESE	.6		.2	.2								1.0	4.6
SE	.4	.2										.6	3.8
SSE		.2										.2	4.0
S	.2	1.4	.2									1.8	5.8
SSW	1.2	3.1	1.4	.4								6.1	5.5
SW	1.4	2.9	2.1	.2								6.6	5.4
WSW	1.4	4.5	2.7									8.7	5.7
W	2.1	4.9	5.2	1.9	.6							14.4	7.4
WNW	1.2	2.3	2.1	.6								6.4	5.1
NW	1.9	2.3	.4									4.6	3.0
NNW	.8		.2		.2							1.2	6.5
VARBL	.2	.2										1.4	4.8
CALM												18.4	
	16.1	36.9	23.9	3.9	.8							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 485

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 66-68 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 21-22  
 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													
NE	.9											.4	2.1
ENE		.9										.4	4.0
E	.9	4.7	.9									4.3	4.8
ESE													
SE	.9	.9										1.8	3.8
SSE	.9	.9										1.8	3.8
S	2.8	2.8										5.6	3.7
SSW	2.8	10.4	1.9									15.1	5.1
SW		7.5										7.5	5.3
WSW	.9	5.7	2.8									9.4	5.2
W	1.9	2.8	.9									5.6	5.0
WNW													
NW	3.8											3.8	2.1
NNW		.9										.9	4.0
VARBL													
CALM												39.4	
	16.0	27.7	6.6									100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 1 A



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-69  
YEARS

MONTH  
 03  
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		.5										.5	4.0
NNE													
NE													
ENE		1.5										1.5	4.7
E	.5		.5									1.0	4.2
ESE	1.5	.5										2.0	3.0
SE	.5											.5	3.0
SSE													
S	3.0	1.5										6.0	2.0
SSW	4.0	6.0	4.5									14.5	5.1
SW	3.5	7.0	1.5									12.0	4.8
WSW	4.0	6.5	1.0									11.5	4.3
W	2.0	2.5	1.5	.5								6.5	3.6
WNW	.5	.5										1.0	3.8
NW		1.0										1.0	3.0
NNW	1.0											1.0	2.0
VARBL	.5											.5	3.0
CALM												39.7	
	23.1	27.6	9.0	.5								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 199



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION BAD TOLZ GERMANY AAF STATION NAME 65 YEARS 70 MONTH

ALL WEATHER  
 CLASS

6 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	1.2
NNE	.4											.4	2.0
NE	.2											.2	2.0
ENE	.9	.4	.6									1.9	2.0
E	.4	1.3	.9									2.6	2.0
ESE	.7											.7	2.0
SE	.4											.4	2.0
SSE		.2										.2	4.0
S	2.2	2.0	.4	.6								5.2	5.0
SSW	2.6	7.4	1.7	.6								12.3	5.0
SW	2.8	5.4	1.3									9.5	4.7
WSW	2.0	6.3	2.0									10.3	5.2
W	1.7	6.0	4.3	.6								12.6	4.4
WNW	.9	2.0	1.5	.2								4.7	6.0
NW	.7	.4	.2									1.3	2.0
NNW	.2											.2	2.0
VARBL	.4	.4										.8	2.0
CALM												36.3	
	16.6	32.0	12.8	2.0								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 527

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/4AC

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

SURFACE WINDS

36197 STATION BAB TOLZ GERMANY AAF CLASS ALL WEATHER YEARS 65-70 MONTH 01-11 HOURS (LST) 00-23

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.1										2.4	3.0
NNE	.6	.4	.6									1.5	3.0
NE	1.1	1.1	1.3									3.5	4.4
ENE	.7	3.0	2.4									5.1	5.0
E	.6	3.0	2.6	1.7								7.9	7.4
ESE	.6	.2	.4									1.1	5.0
SE	.2											.2	3.0
SSE	.2											.2	3.0
S	.2	.9	.6									1.7	3.0
SSW	.9	1.3	3.5	.6								6.3	7.4
SW	1.3	3.0	.9									5.2	4.4
WSW	1.1	3.7	2.4	.4								7.6	5.0
W	2.0	4.5	7.6	1.1								15.3	7.0
WNW	1.1	5.2	3.5	.2								10.1	4.4
NW	1.3	2.4	1.1									4.8	5.0
NNW	.9	1.7	.4									3.0	4.4
VARBL	1.5	1.3										2.8	3.0
CALM												20.3	
	15.6	32.8	27.4	3.9								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 537

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE, IAC

### SURFACE WINDS

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 55-70 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 12-14  
 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	.9									3.5	2.7
NNE	1.1	.9	.4									2.5	4.7
NE	.6	2.1	1.3									4.2	5.7
ENE	1.3	3.8	7.0	.8								12.5	7.7
E	.2	2.7	7.8	2.3								12.9	7.8
ESE		.6		.2								.5	7.3
SE	.2	.2	.2									.4	5.9
SSE	.4	.2										.4	3.9
S	1.1	.6	.9	.6								3.2	4.7
SSW	.2	.9	1.1	.2								2.5	7.1
SW	1.1	1.3	1.3									3.6	3.9
WSW	.8	2.3	3.4	.6	.2							7.2	7.7
W	2.1	4.2	5.3	.6								12.3	6.9
WNW	1.3	4.2	3.2	.6								9.5	4.4
NW	1.1	2.8	1.3	.4								5.7	5.9
NNW	.6	1.9	.2									2.7	4.4
VARBL	1.3	.4	.2	.4								2.7	4.9
CALM												12.7	
	14.6	31.1	34.7	6.6	.2							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 527

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 BAD TOLZ GERMANY AAF STATION NAME 65-70 YEARS            MONTH             
 CLASS ALL WEATHER 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	.6										1.0	2.1
NNE	.6	1.2	.6									2.2	2.7
NE	.8	1.9	1.5									4.2	3.7
ENE	.6	4.0	7.5	2.5	.2							14.0	5.2
E	.2	3.6	7.5	2.3								13.6	4.4
ESE	.2	.2	.4									.8	2.5
SE		.4	.2									.6	2.2
SSE			.2									.2	1.0
S	.2	1.2	.8	.4								2.6	7.8
SSW	.2	2.9	2.9	.6								6.6	7.3
SW	.8	2.9	1.2									4.9	2.2
WSW	1.2	2.5	1.7	.4	.2							6.0	5.6
W	2.1	2.7	1.8	1.0	.2							11.7	7.2
WNW	1.5	5.0	1.5	.6	.2							10.7	4.5
NW	.8	2.5	1.2	.2								4.7	5.7
NNW	.4	1.0	.6									1.6	3.4
VARBL	1.3	1.0	.2	.2								2.7	4.4
CAI%												10.4	
	11.7	33.4	35.7	8.1	.8							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 521

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION: 36197 STATION NAME: BAB TOLZ GERMANY AAF YEARS: 65-70 MONTH: \_\_\_\_\_  
 CLASS: ALL WEATHER HOURS (LST): 1-24  
 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										.5	4.0
NNE	.3	1.3										1.9	4.2
NE	.3	2.0										2.2	4.0
ENE	1.5	8.1	6.6	.3								16.5	5.4
E	1.5	8.4	7.9	.8								18.6	4.5
ESE	.3	.5	.3									1.1	4.0
SE	.3	.5										1.1	4.0
SSE	.3	.3										.6	3.5
S	.8	.8	.5	.3								2.2	4.0
SSW	1.5	3.8	1.6	.5								7.2	5.0
SW	1.0	4.3	2.0									7.4	5.0
WSW	.8	4.1	2.3									7.2	3.9
W	1.5	2.8	3.6	1.5	.3							9.7	7.0
WNW	1.3	2.0	2.5	.5								7.1	6.2
NW	1.5	.8	.3									2.5	3.4
NNW	.5	.5	.5									1.5	4.5
VARBL	1.3	.8										2.1	3.1
CALM												12.0	
	14.5	41.2	28.1	2.8	.2							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 392

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197 BAD TOLZ GERMANY AAF 66-66  
 STATION STATION NAME YEARS

ALL WEATHER  
 CLASS

21 -23  
 MONTH 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	1.7											1.7	2.0
NE													
ENE		1.7	1.7									3.3	4.0
E	5.0	3.3										7.9	3.6
ESE													
SE		1.7										1.7	4.0
SSE													
S	1.7											1.7	2.0
SSW	5.0	6.7	1.7	1.7								15.0	4.6
SW	3.3	5.0										8.3	4.4
WSW		6.7	1.7									8.3	3.0
W	3.3	6.7										10.0	2.7
WNW	1.7											1.7	2.0
NW	1.7											1.7	2.0
NNW	1.7											1.7	2.0
VARBL													
CALM												36.7	
	25.0	31.7	5.0	1.7								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 5

DATA PROCESSING DIVISION  
 RTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 34197 STATION NAME: BAB TOLZ GERMANY AAF YEARS: 67-69 MONTH: \_\_\_\_\_  
 CLASS: ALL WEATHER 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		11.1										11.1	5.0
SSW	22.2	11.1										33.3	5.0
SW		22.2										22.2	5.0
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												33.3	
	22.2	44.4										100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 9

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

STATION 14197 STATION NAME BAB TOLZ GERMANY AAF YEARS 55-69 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER 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													
NNE													
NE	.5											.5	2.0
ENE													
E	.5		1.0									1.5	3.7
ESE	.5											.5	2.0
SE													
SSE	.5											.5	3.0
S	4.4	3.9										8.3	3.5
SSW	8.3	6.8	.5									15.6	3.0
SW	3.9	6.8										10.7	4.0
WSW	3.4	4.4	1.9	1.0								10.7	3.2
W	1.0	2.9	2.4	1.0								7.3	3.7
WNW	.5	1.5										1.9	3.0
NW													
NNW													
VARBL	.5	.5										1.0	4.0
CALM												41.7	
	23.8	26.7	5.8	1.9								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 200



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAB TDLZ GERMANY AAF YEAR 65-70 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 6  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8											.7	2.2
NNE	.4											.4	2.0
NE	.6	.4										1.0	2.2
ENE	.2	.6	1.0									1.7	4.7
E	.2	.2	.2									.4	2.7
ESE	.2											.2	2.0
SE	.2	.2										.4	2.2
SSE			.2									.2	7.0
S	2.1	1.1	.2									3.4	3.0
SSW	3.6	4.6	.6									8.8	4.0
SW	2.9	6.9	1.7									11.5	4.0
WSW	4.2	6.1	2.5	.2								13.7	4.0
W	1.9	5.6	2.1	1.1								17.0	4.0
WNW	1.5	1.7	.4									3.6	4.1
NW	1.0	.8										1.7	3.7
NNW	1.3											1.3	2.3
VARBL	1.1	1.0										2.1	3.0
CALM												30.3	
	27.2	29.1	8.8	1.2								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 522

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

24197 STATION     BAB TOLZ GERMANY AAF STATION NAME     65-70 YEARS  
 CLASS ALL WEATHER MONTH 5-11  
 HOURS (LST) \_\_\_\_\_  
 COORDINATES \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.1										2.1	1.0
NNE	.6	.6	.4									1.6	2.1
NE	1.1	1.9	.8									3.8	4.0
ENE	1.0	1.7	3.3	.4								5.4	7.0
E	.6	1.3	1.7	.2								3.8	4.0
ESE	.2	.2										.4	3.0
SE													
SSE													
S	.6	.2										.8	3.0
SSW	2.1	1.9	.4									4.4	3.0
SW	.6	2.1	.2									2.9	4.0
WSW	1.9	3.4	1.5	1.1	.2							8.2	4.4
W	1.7	6.3	3.8	.4	.2							12.7	4.2
WNW	2.9	4.6	3.1	.6								11.1	5.7
NW	1.9	3.1	.8	.2								5.9	4.7
NNW	1.1	1.7	.6									3.4	4.0
VARBL	1.7	1.1										2.9	3.0
CALM												29.9	
	19.0	31.4	16.5	2.9	.4							100.0	2.9

TOTAL NUMBER OF O. SERVATIONS 522

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MONTH 12  
 CLASS ALL WEATHER MONTH -14  
 HOUR (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	1.6	3.1	.4									5.1	4.0
NNE	1.2	1.4	.2									2.7	3.7
NE	.8	2.1	2.7	.4								6.0	4.7
ENE	.4	4.1	4.1	1.2								9.8	7.3
E	1.8	2.1	5.5	1.6								10.0	7.4
ESE		.6	.2									.1	4.7
SE													
SSE													
S	.8	.2										1.0	2.0
SSW	.6	1.4	1.0	.4								3.3	5.4
SW	1.2	2.0	1.4									4.6	5.0
WSW	1.2	2.1	1.6									4.9	5.0
W	2.5	5.5	3.5	1.4	.4							13.3	6.7
WNW	1.0	4.3	3.7	.2								9.4	6.4
NW	2.0	2.9	1.4	.2								6.4	5.4
NNW	1.3	2.7	.2	.4								5.1	4.0
VARBL	2.1	2.0	.2									4.3	3.7
CALM												12.5	
	18.8	36.5	26.2	5.7	.4							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 312

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION      BAB TULZ GERMANY AAF STATION NAME      65-70 YEARS      MONTH 12 - 17 HOURS (L S T)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	3.0	.2									3.1	4.3
NNE	1.2	1.6	.2									3.0	4.1
NE	1.0	2.2	1.8									4.9	5.7
ENE	1.4	3.7	3.9	1.8	.2							11.0	7.0
E	.8	6.1	7.3	1.6	.2							16.0	7.0
ESE	.2	.6	.2									1.0	5.0
SE	.2	.2										.4	4.0
SSE	.4											.4	2.0
S	.8	.2	.4									1.4	4.7
SSW	1.2	1.6	2.0	.6								5.2	5.4
SW	1.0	2.0	1.8									4.7	6.1
WSW	1.4	2.0	1.2	.2								4.7	5.4
W	2.0	4.9	3.7	1.0								11.6	6.4
WNW	1.4	4.1	1.8	.8								8.1	6.0
NW	1.2	3.2	1.6									5.9	5.7
NNW	.4	2.6	.6									3.6	5.1
VARBL	2.2	1.0										3.2	3.1
CALM												10.0	
	17.4	38.9	28.6	5.9	.5							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS      57

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAD TOLZ GERMANY AAF YEARS 65-70 MONTH 10  
 ALL WEATHER CLASS -2  
 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	1.2	.3									3.4	3.7
NNE		.6	.6									1.2	5.1
NE	.3	2.7	.6									3.4	5.1
ENE	2.4	7.7	3.8	.3								14.2	5.4
E	1.8	6.8	4.7	.9	.6							14.2	4.9
ESE	.3											.3	2.7
SE	.3	.3										.4	3.5
SSE													
S	.3	.9	1.5	.3	.3							3.3	4.2
SSW	1.2	4.1	3.6	.6								9.5	6.2
SW	2.1	3.3	1.5									6.7	5.2
WSW	1.8	4.1	.6	.3								6.7	5.1
W	1.5	2.1	2.7	.3								6.3	6.3
WNW	.3	1.2	1.5	.3		.3						3.4	9.2
NW	1.2	2.1	.6									3.3	4.2
NNW	1.2	1.3	.3									3.3	3.7
VARBL	1.8	1.2	.9									3.4	4.2
CALM												15.1	
	17.8	39.9	23.1	3.0	.9	.3						100.1	5.1

TOTAL NUMBER OF OBSERVATIONS 33

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION      BAB TULZ GERMANY AAF STATION NAME      67-68 YEARS      MONTH \_\_\_\_\_  
 CLASS ALL WEATHER      HOURS (LST) 21-23  
 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											9.1	2.1
NNE													
NE													
ENE		9.1										9.1	3.1
E													
ESE													
SE													
SSE													
S	9.1											9.1	3.1
SSW		27.3										27.3	4.1
SW													
WSW													
W	9.1	9.1										18.2	3.1
WNW		9.1										9.1	4.1
NW													
NNW													
VARBL													
CALM												18.2	
	27.3	54.5										100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 11

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAD TOLZ GERMANY AAF YEARS 65-69 MONTH SEP  
 CLASS ALL WEATHER HOURS (LST) 0800-1800  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5											.5	2.1
NNE													
NE	.5											.5	3.0
ENE	.9											.9	3.0
E	1.4	.5										1.9	3.0
ESE	.5											.5	2.0
SE													
SSE		.9										.9	4.0
S	1.6	4.5	.5	1.4								8.0	5.2
SSW	2.6	7.2	2.3									12.1	4.4
SW	4.5	6.3	1.8									12.6	4.4
WSW	1.4	3.4	1.4									6.2	4.0
W	2.3	2.7	1.8									6.8	5.2
W. W			.5									.5	7.0
NW	.5	.9										1.4	3.2
NNW		.5	.5									.5	4.0
VARBL													
CALM												43.4	
	17.6	29.0	8.6	1.4								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 221

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

34197  
STATION

BAR TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

MONTH

ALL WEATHER  
CLASS

6  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.2										.4	2.2
NNE	.2											.2	2.0
NE	.6											.6	2.8
ENE	.4	1.2	.2	.2								2.0	3.0
E	.8	1.0										1.8	4.0
ESE		.2										.2	4.0
SE													
SSE	.6	.2										.8	3.5
S	1.6	2.0	.4									4.0	4.5
SSW	2.6	5.9	2.2	.4								11.1	6.2
SW	2.8	7.9	1.4									12.1	4.7
WSW	5.3	5.5	1.6	.2								13.7	4.7
W	7.2	3.2	3.2	.2								8.7	5.7
WNW	.2	1.0	.6									2.0	4.7
NW	.2	.4	.4	.2								1.2	7.0
NNW													
VARBL	.6	.6										1.2	3.2
CALM												39.2	
	19.4	30.3	9.9	1.2								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

5



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

14.97 STATION BAD TOLZ GERMANY AAF STATION NAME 65-70 YEARS MONTH 9-11  
 CLASS ALL WEATHER HOURS (LST)             
 CONDITION           

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	.2	.2									1.4	1.4
NNE	.8	.6										1.4	2.3
NE	1.4	2.6	.8	.2								5.0	5.6
ENE	.4	3.6	3.0	.4								7.2	4.0
E	1.2	2.8	2.8	.6								7.2	2.8
ESE		.6										.4	4.2
SE													
SSE	.2	.2										.4	3.0
S		.2	.4	.2								.4	3.0
SSW	.6	1.6	1.0									3.2	5.0
SW	3.0	3.4	.6									4.2	4.3
WSW	3.0	4.0	1.8									8.7	4.7
W	2.6	3.0	6.1	.8								14.5	5.5
WNW	3.0	3.8	1.4	.4								8.4	5.1
NW	1.6	2.0	.8									4.4	4.7
NNW	1.0	1.2										2.2	3.4
VARBL	1.4	.8	.2	.2								2.4	4.2
CALM												25.0	
	21.0	32.3	13.0	2.8								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 815

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 36197 STATION NAME BAR TOLZ GERMANY AAF YEARS 65-70 MONTH 12  
 CLASS ALL WEATHER HOURS (LST) -14  
 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	3.9	.2									4.5	4.7
NNE	.4	1.7	.4									2.2	4.0
NE	.8	2.9	2.1									3.0	4.0
ENE	1.7	2.7	5.6	.2								1.0	4.2
E		1.9	6.0	1.0								6.0	4.4
ESE		.4										.4	4.5
SE													
SSE		.4										.4	5.6
S		.8	.2									1.0	5.0
SSW	.2	2.5	1.9									4.5	5.4
SW	.4	3.3	1.2									4.0	4.7
WSW	1.9	1.4	1.0									4.5	4.0
W	1.4	5.0	2.3	1.7								1.0	5.0
WNW	2.1	4.8	3.1									9.5	4.4
NW	1.4	5.2	2.9									9.5	5.5
NNW	1.2	3.7	.4									5.4	4.3
VARBL	1.7	1.9		.2								3.7	4.0
CALM												13.6	
	13.6	42.4	27.3	3.1								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 484

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 16197 STATION NAME 8AB TDLZ GERMANY AAF YEARS 65-70 MONTH 5  
 CLASS ALL WEATHER HOURS (LST) -1  
 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	2.6	.4	.2								5.4	4.4
NNE	.4	.7	.4									1.5	3.3
NE	.4	2.0	2.0									4.4	2.7
ENE	.4	4.4	3.1	.7								8.6	4.4
E	2.0	4.8	7.0	1.5								15.4	7.1
ESE	.4		.4									.9	4.5
SE	.2	.2										.4	4.5
SSE	.4	.4	.2	.2								1.2	4.5
S	.7	1.3	.7									2.6	4.1
SSW	.9	3.5	2.2	.2								6.8	4.4
SW	.2	2.9	1.1									4.2	4.5
WSW	1.1	2.0	1.8	.2								5.1	3.6
W	1.5	3.9	2.0	.2								7.7	3.6
WNW	2.9	3.3	2.4									10.6	4.9
NW	2.4	2.6	1.5									6.5	4.7
NNW	1.3	3.1	.7									5.1	5.1
VARB	1.2	1.8	.2	.2								3.5	4.3
CALM												10.5	
	18.4	41.4	26.1	3.5								100.4	5.1

TOTAL NUMBER OF OBSERVATIONS 456

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197      BAB TOLZ GERMANY AAF      65-70      MONTH 1-2  
STATION      STATION NAME      YEARS      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		1.2										1.2	4.5
NNE		.3										.3	4.0
NE	.3	1.5	.9									2.7	5.7
ENE	1.8	9.7	2.7									14.2	5.3
E	2.1	10.9	2.1									15.1	5.1
ESE	.9	.9										1.8	4.2
SE	.3											.3	3.0
SSE													
S	1.2	1.5	.9									3.6	4.5
SSW	1.5	5.0	2.7	.3								9.4	5.1
SW	1.2	3.8	1.2									6.2	4.9
WSW	2.1	3.2	2.7									8.0	5.3
W	1.2	1.8	1.5	.6								5.1	5.5
WNW	.6	2.7	1.5									4.7	5.0
NW	1.5	1.2	.3									2.9	4.1
NNW	1.2	1.8										2.9	3.5
VARBL	.9	.6	.6	.3								2.4	4.1
CALM												19.5	
	16.5	49.0	16.8	1.2								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 339

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

36197 STATION BAD TOLZ GERMANY AAF STATION NAME 67 YEARS MONTH 21-22  
 CLASS ALL WEATHER 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													
NNE													
NE													
ENE		25.0										25.0	4.0
E													
ESE													
SE													
SSE													
S				75.0								75.0	13.3
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
		25.0		75.0								100.0	11.0

TOTAL NUMBER OF OBSERVATIONS 4

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 67 MONTH 5  
 CLASS ALL WEATHER HOURS (LST) 200-02  
 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													
NE													
ENE	50.0											50.0	2.0
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												50.0	
	50.0											100.0	1.5

TOTAL NUMBER OF OBSERVATIONS 2

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

36197 BAB TOLZ GERMANY AAF

65069

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	.4	.4										.2	2.0
NNE													
NE	.4											.4	2.0
ENE	.4	.4	.4									1.2	4.7
E	1.6	.4	.4									2.5	3.3
ESE	2.5											2.5	2.7
SE		.4										.4	4.0
SSE	.8	.4										1.2	7.7
S	4.9	2.1	.4									7.4	3.2
SSW	4.9	5.2	2.9	.8								14.8	3.1
WSW	2.5	6.2	2.5									11.1	3.2
W	1.6	7.4	2.5									11.5	5.2
WNW	1.6	3.3	.8	.4								6.2	4.5
NW	.4	.8										1.2	3.2
NNW	.4											.4	2.0
VARBL	1.6	.8										2.5	3.0
CALM												36.5	
	24.3	28.0	9.9	1.2								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 243

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 34197 BAB TOLZ GERMANY AAF STATION NAME 6570 YEARS MONTH  
 CLASS ALL WEATHER 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											.4	2.5
NNE	.4	.6										.9	3.0
NE	.6											.6	2.3
ENE	.6	.9	.6									2.1	5.0
E	.6	.2	.7	.2								1.7	5.1
ESE	.4	.2	.2									.7	4.0
SE	.7	.2										.9	2.4
SSE	1.3											1.3	2.4
S	3.4	3.2	.7									7.3	4.1
SSW	3.6	6.9	2.2	.4								13.1	5.1
SW	3.7	6.9	2.4									13.1	4.3
WSW	2.2	3.8	1.9	.2								10.1	4.0
W	1.5	1.5	2.8									5.9	5.9
WNW	1.3	1.3	.6									3.2	4.3
NW	.2		.4									.4	5.7
NNW	.7	.2	.2									1.1	3.5
VARBL	1.1	.7										1.9	3.0
CALM												35.2	
	22.7	28.7	12.7	.7								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 534



DATA PROCESSING DIVISION  
 STAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MONTH 1-12  
 CLASS ALL WEATHER HOURS (L S Y) 24  
 CONDITION \_\_\_\_\_

SPFED (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	1.3										2.1	4.1
NNE	.9	1.1										2.1	3.7
NE	.9	2.1	.7									3.7	5.0
ENE	.9	3.0	2.4	.4								6.7	6.2
E	1.1	1.3	1.1	.2								3.7	4.0
ESE	.2	.4										.5	3.7
SE													
SSE	.4											.4	2.0
S	.7	.6	.2		.2							1.7	3.7
SSW	.9	2.6	2.1	.4								6.7	5.4
SW	2.4	3.7	1.3									7.3	4.9
WSW	2.4	3.9	2.1	.4								8.7	5.4
W	3.2	3.2	3.6	.7								12.7	5.7
WNW	3.0	4.1	1.5									8.2	4.7
NW	1.7	2.1	.6									4.3	4.7
NNW	1.1	.7										1.9	3.4
VARBL	2.4	.7										3.2	3.1
CALM												26.0	
	23.2	33.0	15.5	2.1	.2							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 534

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

STATION 24197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 1200-1400  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.0	.2									2.3	3.0
NNE	1.4	2.3	1.2									4.9	4.3
NE	1.2	3.1	2.9									7.1	5.0
ENE	.8	4.1	4.2	.8								9.9	6.0
E	1.0	2.9	2.9	.2								6.9	6.0
ESE		.2	.2									.4	3.5
SE	.4											.4	3.0
SSE	.2											.2	3.0
S	.2	.6	.8	.2								1.7	7.3
SSW	.6	2.3	1.5	.2								4.6	5.1
SW	.4	1.0	1.0	.2	.2							2.7	7.5
WSW	1.0	3.3	1.4	.4								6.0	5.0
W	1.2	6.0	2.9									10.0	5.6
WNW	3.5	6.8	2.9	.4								13.5	5.3
NW	1.9	3.9	.4									6.2	4.1
NNW	1.9	1.5	.6									4.1	4.1
VARBL	1.9	1.7	.2									3.9	3.9
CALM												15.3	
	18.5	40.5	23.2	2.3	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 516

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAD TOLZ GERMANY AAF YEARS 65-70 MONTH 3  
 CLASS ALL WEATHER MONTH 15°C-17°C  
 CONDITION \_\_\_\_\_  
 HOURS (L & 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	2.0	2.9										4.9	3.7
NNE	.8	2.6	.6									4.1	4.7
NE	1.2	3.7	1.0									5.9	4.0
ENE	1.2	6.9	8.1									16.3	4.7
E	1.4	3.5	4.7	.4								17.0	4.6
ESE		.2										.2	4.0
SE													
SSE	.2											.2	3.0
S	1.0	1.0		.2	.2	.2						2.6	7.1
SSW	.4	3.1	3.3									6.7	6.7
SW	.2	2.9	1.4									4.5	5.5
WSW	1.2	4.3	1.8									4.3	4.8
W	1.2	2.4	3.1	1.0								7.7	7.0
WNW	1.6	4.5	1.2	.4								7.7	5.1
NW	2.2	2.2	.2									4.7	3.5
NNW	1.2	1.2	.6									3.1	4.4
VARBL	1.6	1.2										2.9	3.4
CALM												12.2	
	17.7	42.6	25.1	2.0	.2	.2						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 491

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

STATION 24197 STATION NAME BAB TOLZ GERMANY AAF YEARS 65-70 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (L & T) 18-21  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	.8										1.9	2.0
NNE	.3	.5										.8	3.2
NE	.8	2.7	.5									4.0	4.9
ENE	2.4	7.7	2.9									13.1	5.7
E	2.1	9.6	3.5									15.2	6.4
ESE	.3	.5										.8	4.3
SE	.5											.9	2.5
SSE	.3	.5										.8	3.2
S	1.9	.3	1.1									3.3	4.5
SSW	2.4	4.3	2.7									9.4	5.2
SW	4.0	3.7	2.9									10.7	4.9
WSW	2.4	4.0	2.4									8.8	5.3
W	2.1	2.1	1.1	.3								5.6	4.2
WNW	1.9	1.3	.5	.3								4.0	4.9
NW	1.6	.8										2.4	2.9
NNW	.3			.3								.5	7.7
VARBL	1.3	1.3										2.6	3.4
CALM												15.2	
	25.6	40.8	17.6	.8								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 375

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 34197      STATION NAME: BAD TOLZ GERMANY AAF      YEARS: 67-69      MONTH: 21-23  
 CLASS: ALL WEATHER      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													
NNE													
NE													
ENE													
E	6.7	6.7										13.4	4.0
ESE													
SE													
SSE													
S													
SSW		13.3	6.7									20.0	6.3
SW		13.3										13.3	5.0
WSW		6.7										6.7	6.0
W		6.7										6.7	5.0
WNW			6.7									6.7	1.0
NW													
NNW													
VARBL													
CALM												33.3	
	6.7	46.7	13.3									100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 10

DATA PROCESSING DIVISION  
 STAG/USAF  
 AIR WEATHER SERVICE/MNC

**SURFACE WINDS**

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

16197 BAZ TOLZ GERMANY AAF 66-67,69 MONTH \_\_\_\_\_  
STATION STATION NAME YEARS MONTH

ALL WEATHER HOUR (LST) \_\_\_\_\_  
CLASS HOUR (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													
NNE													
NE	3.2											3.2	3.0
ENE	3.2											3.2	2.0
E		3.2										3.2	4.0
ESE		3.2										3.2	4.0
SE													
SSE													
S		3.2										3.2	4.0
SSW	3.2		3.2									6.4	4.5
SW	6.4											6.4	2.5
WSW	3.2	3.2										6.4	4.0
W	3.2	6.4										9.6	4.0
WNW													
NW													
NNW													
VARBL	3.2											3.2	2.0
CALM												51.6	
	25.8	19.4	3.2									100.0	1.7

TOTAL NUMBER OF OBSERVATIONS 31

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 24197 BAR TOLZ GERMANY AAF STATION NAME 65-69 YEARS 1950 MONTH 12  
 CLASS ALL WEATHER HOURS (L.S.T.) 2300-0100  
 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	.4											.4	3.1
NE	.4											.4	2.7
ENE	.4	2.1										2.5	4.2
E	1.7	.8	.4									3.2	3.7
ESE													
SE	1.3											1.3	3.1
SSE	1.3	.4										1.7	3.1
S	4.7	6.4	.4									11.4	3.5
SSW	4.2	5.9	.8	.4								11.4	4.4
SW	3.4	6.8	.8									11.0	4.3
WSW	2.1	3.8	.8									6.7	4.2
W	.8	3.8	.4	.8								5.9	5.7
WNW	.4			.8								1.3	12.7
NW	.8											.4	2.7
NNW			.4									.4	3.1
VARBL	1.3	.4										1.7	3.3
CALM												39.3	
	23.3	30.5	4.2	2.1								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 226

1

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAD TOLZ GERMANY AAF YEARS 64-70 MONTH 5  
 CLASS ALL WEATHER HOURS (L & T.) 0600-1800  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2											.2	3.0
NNE	.2											.2	2.0
NE	.4	.2	.2									.8	4.5
ENE	1.8	1.0	.2									3.0	3.0
E	.8	2.0	.8									3.6	3.1
ESE	.8											.8	2.5
SE	.8											.8	2.0
SSE	1.2	.4										1.6	2.9
S	3.6	3.4	.8	.2								7.8	4.4
SSW	3.4	4.0	1.8	.4								9.6	4.9
SW	2.0	5.5	.6									9.1	4.2
WSW	2.8	6.1	1.2									10.1	4.4
W	1.6	3.0	1.2	.2								5.0	5.4
WNW	.4	.2										.6	3.4
NW	.2											.2	2.0
NNW	.2											.2	3.0
VARBL	1.6											1.6	2.1
CALM												44.1	
	22.7	25.7	6.7	.8								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 5,6



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 24197 STATION NAME BAB TOLZ GERMANY AAF YEARS 64-70 MONTH 5  
 CLASS ALL WEATHER HOURS (L S T.) 00-11  
 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										.4	2.7
NNE	.8	.4										1.2	3.0
NE	.8	2.7	.2									3.7	4.2
ENE	.8	3.6	2.5	.4								7.2	5.1
E	.4	2.5	2.5	.4								5.7	5.7
ESE	.4		.2									.6	4.0
SE	.4											.4	2.0
SSE													
S	.6	1.3	.8	.4								3.0	6.4
SSW	1.7	2.3	2.3	.2								6.4	6.0
SW	1.3	1.9	.9									4.2	4.0
WSW	1.7	3.6	1.5									6.8	5.4
W	2.1	3.2	2.7	1.1								9.1	6.4
WNW	2.7	2.3	.8									5.7	4.2
NW	.9	1.9	.2	.2								3.2	4.5
NNW	.6	.6										1.1	3.7
VARBL	2.3	.2										2.5	2.0
CALM												38.0	
	17.6	26.5	16.4	2.7								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 525

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

2 FT  
HIGHT

ALL WEATHER  
CLASS

12 - 14  
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	.8	1.4										2.2	4.0
NNE	.8	1.6	.2									2.4	4.4
NE	1.4	3.7	1.8	.2								7.1	5.5
ENE	1.4	6.5	6.3	1.6								15.2	7.0
E	.4	2.2	5.7	1.8								10.1	7.2
ESE			.4									.4	7.5
SE													
SSE	.2											.2	2.0
S		1.6	.6	.4								2.6	7.2
SSW		1.2	1.2									2.4	6.4
SW		.6	.6									1.2	6.0
WSW	1.8	1.2	.2									3.2	3.0
W	1.4	3.6	3.6	1.0								9.6	7.0
WNW	2.4	5.7	2.6	.2								10.9	5.2
NW	2.6	2.8	1.8	.2								7.3	4.0
NNW	1.8	.8										2.6	3.1
VARBL	2.0	1.4	1.0	.2								4.6	5.1
CALM												17.8	
	16.8	34.1	25.8	5.5								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 507

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

64,66-70  
YEARS

Fr  
MONTH

ALL WEATHER  
CLASS

157-17  
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	.9	.2									2.9	3.0
NNE	.9	1.3										2.1	3.9
NE	.9	4.7	1.1									6.4	5.1
ENE	2.1	9.6	6.4	1.1								19.2	6.2
E	1.1	6.2	8.1	1.1								16.4	7.0
ESE	.2											.2	3.0
SE													
SSE													
S	.4	.4	.2	.2								1.2	5.0
SSW	.4	.9	.4									1.7	4.9
SW	.4	1.7	.4	.2								2.8	5.6
WSW	.9	1.3	1.1	.4								3.6	6.2
W	1.3	4.1	3.0	.9	.4							9.4	7.0
WNW	3.0	3.6	1.9									8.5	4.0
NW	2.8	2.4	.9									6.0	4.0
NNW	1.5	1.7										3.2	3.9
VARBL	1.9	.9	.4									3.2	4.1
CALM												12.6	
	19.4	39.5	24.1	3.8	.4							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

468

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

34197 STATION BAB TOLZ GERMANY AAF STATION NAME 66-70 YEARS MONTH SEP  
ALL WEATHER CLASS 140-2 HOURS (LST) 140-2  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0											1.0	1.0
NNE	.3	.5										.8	4.0
NE	.5	1.3	.3									2.1	4.0
ENE	5.9	8.2	2.1	.3								16.5	4.8
E	6.4	10.1	1.8									18.3	4.8
ESE	1.0	.5	.3									1.8	3.9
SE	.5		.3									.8	3.7
SSE	.3											.3	3.0
S	.5	.3	.3	.3								1.4	7.0
SSW	2.3	2.8	.5									5.7	4.4
SW	.8	3.1	.5									4.4	4.9
WSW	1.5	3.4	.5	.3								5.7	4.7
W	1.3	3.6	1.0	.3								6.2	5.0
WNW	1.0	1.3	.5									2.8	4.5
NW	1.5		.3									1.8	3.4
NNW	1.0	.3										1.3	2.6
VARBL	1.5	.3										1.8	2.4
CALM												27.3	
	27.6	29.6	8.2	1.3								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 368

DATA PROCESSING DIVISION  
 DTIC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAB TOLZ GERMANY AAF YEAR 66-67-69 MONTH SEP  
 CLASS ALL WEATHER HOURS (LST) 21 - 23  
 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	3.0		1.5									4.5	4.0
NNE													
NE	1.5											1.0	3.0
ENE	4.5	6.1										10.6	4.0
E	4.5	1.5										6.1	2.0
ESE													
SE													
SSE													
S	1.5	1.5										3.0	3.0
SSW	1.5	7.6										9.1	3.7
WSW	1.5	6.1										7.6	5.0
WSW	3.0	3.0										6.1	4.0
W		1.5	3.0									4.5	7.2
WNW			1.5									1.5	9.0
NW													
NNW													
VARBL	1.5											1.5	3.0
CALM												43.9	
	22.7	27.3	6.1									100.0	2.4

TOTAL NUMBER OF OBSERVATIONS 66

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

STATION 24197 STATION NAME BAB TOLZ GERMANY AAF YEARS 67 MONTH 07  
 CLASS ALL WEATHER HOURS (LST) 00-23  
 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													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW		50.0										50.0	5.0
SW		50.0										50.0	5.0
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
		100.0										100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 2

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION BAB TOLZ GERMANY AAF STATION NAME 65-69 YEARS MONTH 03 HOUR 01 HOURS (LST) 08

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													
NE	.4		.4									.8	4.5
ENE	1.3	1.3										2.6	3.0
E	1.7	.4	.4									2.5	3.0
ESE													
SE	.8	.4										1.2	3.0
SSE	1.7											1.7	2.5
S	1.7	5.9	.4	.4								8.4	4.0
SSW	4.2	4.6	2.9	.4								12.2	5.0
SW	1.7	5.0	2.5	.4								9.7	5.5
WSW	2.1	2.5	2.5	.4								7.6	5.7
W	2.1	2.9	.8									5.9	4.0
WNW	.8											.8	2.5
NW													
NNW		.4										.4	5.0
VARBL	1.7											1.7	2.5
CALM												45.0	
	20.2	22.5	10.1	1.2								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 234

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

34197 STATION    BAB TOLZ GERMANY AAF STATION NAME    64-70 YEARS

MONTH 06

CLASS ALL WEATHER

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		.2										.2	4.0
NNE	.4											.4	2.8
NE	.2	.9	.2									1.3	4.0
ENE	1.1	1.1	.9									3.1	4.0
E	1.3	1.8	1.4	.2								4.7	5.4
ESE	1.1	.4										1.4	3.0
SE	.9	.2										1.1	2.3
SSE	.4	.2										.6	4.0
S	3.6	3.2	1.8	.2								8.8	4.6
SSW	3.4	6.1	3.1	.7								13.4	5.4
SW	2.3	5.1	2.2									9.4	5.0
WSW	2.0	3.6	3.1									8.7	5.3
W	1.3	2.0	1.8	.5								5.4	6.2
WNW	1.1	.5	.2	.2								2.0	4.7
NW													
NNW	.2	.4		.2								.7	3.0
VARBL	1.0	.2	.2									2.0	2.0
CALM												36.4	
	20.8	25.8	14.8	2.0								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 554



1  
 DATA PROCESSING DIVISION  
 HTAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 34197 STATION NAME BAD TOLZ GERMANY AAF YEARS 64-70 MONTH 07  
 CLASS ALL WEATHER HOURS (LST) 09-11  
 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	1.2										1.7	3.2
NNE	.2	.5										.7	4.5
NE	1.3	1.3	.3									3.2	4.6
ENE	.8	1.8	1.5									4.2	5.7
E	1.0	1.0	2.7	.2								4.9	6.2
ESE	.8	.3		.2								1.3	4.3
SE	.3											.3	2.3
SSE	.3	.2		.2								.7	5.3
S	1.5	2.3	.3	.2								4.4	4.2
SSW	2.2	2.5	1.2	1.7								7.5	6.5
SW	2.8	3.0	1.2	.2								9.2	4.9
WSW	1.8	4.5	3.4									9.7	5.6
W	1.3	3.0	1.7	.8								6.7	5.8
WNW	1.5	1.8	.7									4.7	4.6
NW	.7	.3	.2									1.2	3.3
NNW	.5	.5										1.7	3.7
VARBL	3.0	.5	.7									4.2	3.4
CALM												35.2	
	20.8	27.0	13.7	3.4								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 597

DATA PROCESSING DIVISION  
 RTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION: 34197 STATION NAME: BAD TOLZ GERMANY AAF YEARS: 64-70 MONTH: 12  
 CLASS: ALL WEATHER HOURS (LST): 1200-1400  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	1.0										1.3	3.0
NNE	1.0	2.0										3.1	4.0
NE	2.6	2.7	2.0	.2								7.5	3.3
ENE	1.9	3.6	3.7	.5								9.7	5.4
E	1.5	3.2	2.2	1.2								8.7	5.7
ESE	.5											.5	3.0
SE	.2											.2	2.0
SSE	.2											.2	2.0
S	.9	.7		.2								1.7	4.4
SSW	.3	2.6	1.4	.3								4.6	5.4
SW	.5	2.6	.7									3.7	5.3
WSW	1.0	2.9	2.4	.2	.2							6.6	6.4
W	1.7	3.2	3.7	1.0	.2							9.9	6.0
WNW	2.0	3.6	1.2	.3								9.2	4.9
NW	1.7	1.5	.3	.2								3.7	4.3
NNW	.5	1.7		.2								2.4	4.7
VARBL	3.1	1.0	.5	.2								4.5	3.7
CALM												22.3	
	20.1	24.4	18.2	4.4	.3							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 567

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SURFACE WINDS

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

34197 STATION    BAD TOLZ GERMANY AAF STATION NAME    64 YEARS    07 MONTH  
15 - 17 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	2.3	.7	.2									3.2	2.0
NNE	1.4	1.1										2.5	2.1
NE	3.0	4.2	.7									7.9	4.1
ENE	2.3	9.3	3.7	.5								15.0	5.4
E	1.8	4.8	3.2	1.2								11.0	6.5
ESE	.4	.4	.2									2.0	3.0
SE	.2											.2	3.0
SSE	.2											.2	2.0
S	.5	.2	.4	.4								1.4	5.5
SSW	.7	.2	.9									1.8	5.7
SW	1.1	2.3	.7									4.1	4.0
WSW	1.9	3.0	1.8									6.7	3.0
W	1.6	2.8	2.1	1.1								7.6	6.5
WNW	2.3	3.4	.7	.2								6.6	4.6
NW	1.2	.9	.5									2.6	4.4
NNW	1.6	1.4										3.0	3.4
VARBL	2.6	.4	1.1									4.1	3.9
CALM												2.5	
	23.0	34.9	16.0	3.4								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 567

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 BAD TOLZ GERMANY AAF YEARS 65-70 MONTH 1-2  
STATION NAME YEARS MONTH  
 CLASS ALL WEATHER HOURS (L S T) 2  
 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	Σ	M-AN WIND SPEED
N	.3	.3										.6	3.5
NNE	.5											1.0	2.5
NE	1.0	1.3										2.3	3.6
ENE	2.6	3.9	1.0									7.5	4.4
E	3.6	4.9	.8	.3								9.6	4.2
ESE	1.3											1.3	2.4
SE	.3	.3										.6	3.2
SSE	1.6											1.6	2.3
S	1.0	1.3	.3									2.6	4.1
SSW	3.1	3.4	.8	.3								7.6	3.9
SW	2.3	4.7	.5									7.5	4.3
WSW	2.9	4.2	.5									7.6	4.1
W	1.6	3.1	.8	.8								6.3	3.9
WNW	.5	1.3	.8	.3								3.9	5.2
NW	.5	.3										.8	3.2
NNW	.5											.5	3.2
VARBL	1.8	.5	.8									3.1	4.2
CALM												32.4	
	24.4	29.4	6.2	1.6								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 358

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AIR WEATHER SERVICE/AAC

**SURFACE WINDS**

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

STATION: 34197 STATION NAME: RAD TOLZ GERMANY AAF YEAR: 67 MONTH: 07  
 CLASS: ALL WEATHER HOURS (L & Y): 21-23  
 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													
NE													
ENE													
E													
ESE													
SE													
SSE													
S	20.0											20.0	3.0
SSW	20.0											20.0	2.0
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												60.0	
	40.0											100.0	1.0

TOTAL NUMBER OF OBSERVATIONS 5

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION BAB TOLZ GERMANY AAF STATION NAME 65-69 YEARS MONTH 3-1957 HOURS (LST) 3

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	≥55	%	MEAN WIND SPEED
N	.7	.7										1.4	3.4
NNE		.4	.4									.7	5.4
NE	1.1	1.1	.4									2.5	4.0
ENE	1.1	3.4	1.5	.4								6.2	5.6
E	2.2	.7	1.5									4.5	5.3
ESE	2.2	.4										2.5	2.5
SE	.4											.4	2.0
SSE	.7	.4										1.1	4.0
S	1.5	2.6	.7	.7	.4							5.0	4.5
SSW	2.2	4.1	2.2	.7								9.3	5.7
SW	1.1	3.4	1.9	.4								6.7	5.1
WSW	1.5	2.6	1.9	.7								5.7	5.4
W	1.1	2.6	2.2	.7								6.7	5.9
WNW	.7	2.6	.7									4.2	5.3
NW	.7	.7	.4									1.8	4.0
NNW													
VARBL	.7											.7	2.5
CALM												30.1	
	19.3	25.7	13.8	3.7	.4							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 24

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME RAB TOLZ GERMANY AAF YEARS 64-70 MONTH \_\_\_\_\_  
 CLASS ALL WEATHER HOURS (LST) 6  
 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	2.5
NNE	.5	.4										.9	3.4
NE	.4	1.3										1.7	4.7
ENE	1.4	2.5	1.3	.4								5.6	5.5
E	2.2	1.4	1.1	.9								5.6	5.7
ESE	.7	.2	.2									1.1	2.9
SE	.2	.2										.4	3.1
SSE	1.1	.5										1.6	3.0
S	2.7	3.1	.9	.9	.2							7.7	5.6
SSW	3.1	3.1	3.4	.9								13.5	6.2
SW	1.6	6.0	1.3	.2								9.1	5.2
WSW	.4	1.8	2.9	.2	.2							5.3	7.9
W	1.4	4.0	3.8	1.4	.2							13.2	7.4
WNW	.2	1.1	1.1									2.3	6.5
NW	.4	.5										.9	3.4
NNW		.2										.2	5.1
VARBL	1.4	.2										1.6	2.7
CALM												33.9	
	18.1	26.4	15.9	5.2	.5							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 554

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

6470  
YEARS

MONTH

ALL WEATHER  
CLASS

09-11  
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	2.7
NNE	.5	.3										.8	3.2
NE	.3	1.5	.3									2.2	5.1
ENE	.5	3.5	1.9	.7								6.6	6.2
E	1.5	2.0	1.7	.7								5.9	5.1
ESE	.8	.2	.5									1.5	4.0
SE	.5											.5	2.3
SSE	.5	.2										.7	2.0
S	1.9	1.7	.3	1.2	.3							5.4	7.1
SSW	1.5	3.4	1.5	1.2	.2							7.0	6.7
SW	1.3	3.3	1.7	.2								6.7	5.1
WSW	1.3	3.0	1.5	.8								6.7	6.2
W	2.2	3.2	5.6	2.4								13.3	7.4
WNW	.7	2.5	.7	.2								4.1	3.4
NW	.5	1.2										1.7	4.4
NNW	.2											.2	2.0
VARBL	2.2	.3		.2								2.7	3.1
CALM												32.9	
	16.7	26.8	15.7	7.4	.5							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

393



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

STATION 24197 STATION NAME BAD TOLZ GERMANY AAF YEARS 64-70 MONTH 12  
 CLASS ALL WEATHER HOURS (LST) -14  
 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										.7	3.2
NNE	.5	.7										1.2	3.7
NE	1.2	2.4	1.2									4.7	5.1
ENE	1.2	3.2	4.4	.7								9.5	5.7
E	1.0	2.5	2.9	1.0								7.4	5.0
ESE	.7	.3	.5	.3								1.8	6.2
SE	.2	.3										.7	3.3
SSE	.5	.2										.7	3.0
S	1.2	.7	.7	.7								3.2	7.1
SSW	.7	2.7	2.0	.8	.3							6.5	7.3
SW	1.4	2.5	1.4	.2								5.4	5.5
WSW	1.2	2.5	2.0	.5								6.2	5.4
W	3.2	5.6	3.7	.5	.7							15.7	5.6
WNW	2.9	4.4	1.2	.3								8.7	4.8
NW	.3	1.5	.5									2.4	5.1
NNW	.8	.3										1.2	3.0
VARBL	2.4		.7		.3							3.4	5.5
CALM												20.6	
	19.4	30.4	23.1	5.1	1.4							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 392

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197  
STATION

8AB TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

MONTH

ALL WEATHER  
CLASS

150-170  
HOURS (L Y 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	4.0
NNE	.8	.5	.3									1.7	4.2
NE	.3	1.5	.8									2.7	5.0
ENE	1.5	7.3	2.7	.5								12.0	5.3
E	2.2	4.6	4.6	1.4								12.7	5.6
ESE	.8	.5	.5									1.9	4.4
SE	.3		.2									.2	3.7
SSE	.3	.2										.7	4.5
S	.2	.2	.3	.5		.2						1.4	10.5
SSW	.8	1.4	1.7	.5	.3							4.7	7.7
SW	1.5	2.9	1.0									5.4	4.9
WSW	2.0	2.4	1.7	.7	.2							6.9	6.4
W	1.9	5.6	5.4	2.4	.2							15.4	7.2
WNW	1.0	2.7	1.7	.3								5.8	5.2
NW	1.9	.3		.2								2.4	3.5
NNW	.2	.3										.5	4.3
VARBL	1.2	.3	.5	.2	.3							2.5	5.5
CALM												22.7	
	17.1	31.0	21.5	6.6	1.0	.2						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 591

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

34197 STATION      BAD TOLZ GERMANY AAF STATION NAME      65-70 YEARS

CLASS ALL WEATHER MONTH 12-21  
HOURS (LST)

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.2										.7	2.7
NNE		.7										.7	4.2
NE	.7	.4										1.1	3.2
ENE	1.8	3.8	2.7	.7								9.6	5.9
E	3.1	4.0	1.8	.7								9.5	5.0
ESE	.7											.7	3.0
SE	.7											.7	2.3
SSE	.7											.7	2.3
S	2.7	1.2	1.1	.2								5.4	4.9
SSW	2.5	3.8	2.5	.4	.4	.2						9.9	6.2
SW	2.7	4.5	1.8									9.6	4.8
WSW	1.8	2.9	1.6	.2								6.5	3.4
W	1.6	2.9	4.0	.9								9.4	6.2
WNW	.4	.9	1.3	.2								2.9	4.2
NW	.7	.2	.2									1.1	4.0
NNW	.4	.2										.7	2.7
VARBL	.9											.9	2.0
CALM												31.2	
	21.7	20.0	17.0	3.4	.4	.2						100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 446

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

34197 BAB TOLZ GERMANY AAF 65-70 EC  
STATION STATION NAME YEARS MONTH

ALL WEATHER 300630  
CLASS HOURS (L S T)

          
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	.9										1.0	2.2
NNE													
NE	.5											.4	2.7
ENE	2.3	.9	.9									4.1	3.9
E	2.3	2.3										4.6	2.5
ESE													
SE													
SSE	.5											.4	2.7
S	.5	2.3	.5									3.3	5.7
SSW	2.6	5.5	2.7									11.8	5.1
SW	.9	4.5	6.4	.5								12.3	6.4
WSW	2.7	4.5	5.9	.5								13.6	6.2
W	.5	5.0	6.4	.9	.5	.5						13.6	6.2
WNW	1.8	1.4	.9	.5								4.6	5.5
NW		.5										.4	6.7
NNW	.5											.5	2.7
VARBL			.5									.5	3.7
CALM												26.2	
	16.8	27.7	26.1	2.3	.5	.5						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 227

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

04197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

EU  
NORTH  
 06-00-00  
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	.4											.4	2.7
NNE	.4	.2										.4	3.3
NE	.8	.8										1.5	3.3
ENE	1.5	1.5	.2									3.2	3.9
E	1.5	2.4	.4									4.3	4.2
ESE	.9											.9	2.7
SE	.2	.2										.4	4.0
SSE	.4											.4	2.0
S	2.4	1.5	1.3	.6	.2							5.7	5.9
SSW	3.0	4.9	2.3	.6								17.7	5.4
SW	2.4	4.3	2.8	.4								17.8	5.5
WSW	2.3	4.0	2.4	.8	.2							9.4	6.2
W	1.3	4.3	6.2	2.1		.2						14.1	7.0
WNW	.4	1.5	.8	.4								3.9	6.7
NW		.4	.4									.9	6.3
NNW	.4											.4	2.7
VARBL	1.1	.2	.4									1.7	3.9
CALM												32.7	
	19.4	26.2	17.1	4.7	.4	.2						102.7	3.9

TOTAL NUMBER OF OBSERVATIONS 531

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

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

**SURFACE WINDS**

34197 STATION BAD TOLZ GERMANY AAF STATION NAME 64-70 YEARS MONTH 7  
ALL WEATHER CLASS 11-11 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													
NNE	.2	.2										.2	3.1
NE	.3	.5	.2									1.0	4.7
ENE	1.5	3.2	.7									5.4	4.5
E	.8	3.0	1.2									5.0	5.2
ESE	.3											.3	2.0
SE	.2	.2										.4	3.0
SSE	.2	.2										.4	3.0
S	1.8	1.2	.5	.2								3.5	4.5
SSW	3.2	4.1	2.2	.5								10.0	5.4
SW	2.0	3.5	1.7	1.3								7.5	5.3
WSW	2.0	4.6	3.2	.3								10.1	5.7
W	1.7	3.6	6.6	2.3	.2							14.4	7.9
WNW	.5	.8	.7									2.0	5.2
NW	.8	.5										1.3	3.1
NNW													
VARBL	.8	.5										1.3	3.1
CALM												36.2	
	16.3	26.0	16.7	4.6	.2							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 603

DATA PROCESSING DIVISION  
 BTAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 STATION BAB TOLZ GERMANY AAF STATION NAME 64-70 YEARS 1965-1966  
 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	1.2	.2										1.4	2.1
NNE	.9	.2										1.1	2.7
NE	1.0	1.4	.2									2.6	4.2
ENE	2.2	4.5	1.2	.2								8.1	4.7
E	1.5	2.1	2.1	.2								6.0	4.7
ESE	.2	.3										.5	4.3
SE	.3											.6	2.1
SSE	.5											.8	2.3
S	.5	1.0	.2	.3								2.1	4.1
SSW	.5	2.1	3.1	.9								6.6	7.4
SW	.7	2.6	1.4	.2								4.9	5.9
WSW	1.4	4.1	4.3	.2								9.9	6.3
W	1.4	6.2	6.3	2.7	.2							17.1	7.6
WNW	.9	2.9	1.4	.5								5.7	5.2
NW	.3	1.0	.7									2.1	3.3
NNW	.9	.2										1.1	2.5
VARBL	1.2	.3	.2									1.7	3.2
CALM												29.1	
	15.6	29.0	21.1	5.1	.2							100.1	4.3

TOTAL NUMBER OF OBSERVATIONS 333

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

STATION 34197 STATION NAME BAD TOLZ GERMANY AAF YEARS 64-70 MONTH 5  
 CLASS ALL WEATHER HOURS (LST) 180-17  
 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 SPZED
N		.4										.4	4.4
NNE	.4	.5	.2									1.1	4.2
NE	1.7	2.0	.2									3.9	3.7
ENE	2.2	3.0	1.8									9.0	5.2
E	1.5	3.5	2.9									7.9	3.8
ESE	.6											.6	2.4
SE	.7	.2										1.0	2.4
SSE	.2											.2	2.0
S	.6	.9	.6	.4								2.4	4.5
SSW	1.7	2.8	1.8	.4								6.3	4.7
SW	1.8	2.8	3.1	.4								9.1	4.7
WSW	2.0	4.4	2.6	.7	.4							10.1	6.4
W	1.1	4.2	8.5	3.1								16.9	4.1
WNW	.7	2.0	1.1	.2								4.1	5.3
NW	1.3	.4	.2									1.9	3.4
NNW	.6											.6	2.3
VARBL	1.3	.2										1.5	2.5
CALM												23.9	
	18.2	29.3	23.0	5.2	.4							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 543



DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

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

34197 STATION BAB TOLZ GERMANY AAF 65-70 YEARS MONTH 00  
 CLASS ALL WEATHER HOURS (LST) -2  
 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											.2	2.0
NE	.5	1.3	.3									2.1	4.4
ENE	3.3	5.1	1.0									9.4	4.3
E	3.5	1.3	1.5									6.3	4.2
ESE	.3	.3										.6	3.8
SE													
SSE		.5										.3	4.0
S	1.8	.3	.3	.3								2.5	4.5
SSW	2.0	3.0	3.5	.8								8.4	5.3
SW	1.5	3.8	1.0	.5								6.8	5.2
WSW	1.0	6.6	2.6	.8								14.9	6.7
W	3.0	3.5	5.6	4.8								17.1	7.0
WNW	1.0	.5	.2									1.7	3.4
NW			.3	.3								.6	12.0
NNW													
VARBL	1.8	.5										2.3	2.2
CALM												25.1	
	20.3	26.6	20.3	7.3								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 395

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

**SURFACE WINDS**

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

34197 BAB TOLZ GERMANY AAF

64-70

INSTRUMENT

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

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

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	.8	.0	.0								1.5	2.1
NNE	.6	.7	.1									1.3	2.1
NE	.8	2.0	.7	.0								3.5	4.0
ENE	1.6	4.8	3.1	.5								10.0	4.0
E	1.5	2.8	3.1	.7								8.1	4.0
ESE	.2	.2	.1	.6								1.1	4.0
SE	.2	.0										.2	2.0
SSE	.1	.1		.0								.2	3.0
S	.5	.3	.1	.1	.0							1.0	3.3
SSW	.7	1.5	.9	.2	.1							3.3	5.0
SW	1.0	2.2	1.0	.0	.0							4.2	5.0
WSW	1.8	3.7	2.5	.5	.0							8.5	4.0
W	2.3	6.8	6.2	1.9	.2							17.3	7.0
WNW	2.3	4.1	2.2	.4	.0							9.0	4.0
NW	1.5	1.7	.5	.1								3.8	4.0
NNW	.9	.9	.3	.1								1.9	4.0
VARBL	.6	.2	.1									1.0	3.0
CAIM												24.0	
	17.6	32.4	21.0	4.1	.4							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 627

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## 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.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0	
1500																92.6
1200																
1000																
500																
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  $\geq 0$ .  
 For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
 Ceiling  $\geq 500$  feet = 98.1%.

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

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

#### ADDITIONAL EXAMPLES

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

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

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

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

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 STATION BAB TOLZ GERMANY AAF

64-70

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

ALL

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 1/4	> 0
NO CEILING																
IV 20000	31.9	33.0	34.2	34.7	34.8	35.2	35.4	35.4	35.6	35.7	35.8	35.9	36.1	36.2	36.4	
IV 18000	37.1	38.3	39.5	40.1	40.3	40.6	40.8	40.9	41.1	41.2	41.3	41.4	41.6	41.7	41.9	
IV 16000	37.2	38.4	39.6	40.2	40.3	40.7	40.9	41.0	41.2	41.3	41.4	41.5	41.7	41.8	42.0	
IV 14000	37.3	38.5	39.7	40.3	40.3	40.8	41.0	41.1	41.3	41.4	41.5	41.6	41.8	41.9	42.1	
IV 12000	37.7	38.9	40.2	40.7	40.9	41.2	41.4	41.5	41.7	41.8	41.9	42.0	42.2	42.3	42.5	
IV 10000	39.3	40.6	41.8	42.4	42.6	42.9	43.2	43.2	43.4	43.5	43.6	43.7	43.9	44.0	44.2	
IV 9000	40.4	41.6	42.9	43.4	43.6	44.0	44.2	44.3	44.5	44.6	44.7	44.8	45.0	45.1	45.3	
IV 8000	43.6	45.0	46.3	47.0	47.2	47.9	47.9	48.1	48.2	48.3	48.4	48.6	48.7	48.9	49.0	
IV 7000	46.0	47.5	48.8	49.5	49.7	50.1	50.4	50.5	50.7	50.8	50.9	51.0	51.2	51.3	51.5	
IV 6000	47.6	49.2	50.6	51.3	51.5	51.9	52.2	52.3	52.5	52.6	52.7	52.8	53.0	53.1	53.3	
IV 5000	50.0	51.6	53.1	53.8	54.1	54.5	54.8	54.8	55.1	55.2	55.3	55.4	55.6	55.7	56.0	
IV 4500	51.9	53.6	55.1	55.8	56.1	56.5	56.8	56.9	57.1	57.2	57.3	57.4	57.6	57.7	58.0	
IV 4000	54.5	56.3	57.9	58.7	59.0	59.5	59.8	59.8	60.1	60.2	60.3	60.4	60.6	60.7	61.0	
IV 3500	57.4	59.4	61.2	62.0	62.3	62.8	63.1	63.2	63.5	63.7	63.7	63.8	64.1	64.2	64.4	
IV 3000	61.0	63.4	65.4	66.4	66.8	67.4	67.8	67.9	68.2	68.3	68.4	68.5	68.7	68.8	69.1	
IV 2500	65.3	68.2	70.6	71.8	72.2	73.0	73.4	73.5	73.9	74.0	74.1	74.2	74.4	74.5	74.8	
IV 2000	67.2	70.5	73.4	75.0	75.4	76.4	76.8	76.9	77.4	77.5	77.6	77.7	77.9	78.0	78.3	
IV 1800	67.9	71.4	74.3	76.2	76.6	77.7	78.2	78.3	78.8	78.9	79.0	79.1	79.4	79.5	79.7	
IV 1500	69.2	73.1	76.7	78.7	79.4	80.8	81.3	81.7	82.2	82.4	82.5	82.6	82.8	82.9	83.2	
IV 1200	70.2	74.4	78.3	80.9	81.7	83.4	84.4	84.6	85.4	85.6	85.7	85.8	86.0	86.1	86.4	
IV 1000	70.3	74.8	79.0	81.8	82.7	84.8	86.0	86.3	87.4	87.7	87.8	87.9	88.2	88.3	88.5	
IV 900	70.3	74.9	79.2	82.1	83.2	85.4	86.7	87.2	88.4	88.7	88.9	89.0	89.3	89.4	89.6	
IV 800	70.6	75.1	79.4	82.3	83.6	86.2	87.7	88.3	89.8	90.3	90.5	90.7	90.9	91.0	91.3	
IV 700	70.7	75.2	79.6	82.5	84.0	87.3	88.9	89.3	91.1	91.8	92.2	92.3	92.6	92.7	93.0	
IV 600	70.7	75.2	79.7	82.9	84.2	87.2	89.3	90.1	92.3	93.2	93.6	93.8	94.1	94.2	94.5	
IV 500	70.7	75.3	79.8	83.1	84.4	87.6	89.8	90.7	93.4	94.6	95.1	95.6	96.0	96.1	96.4	
IV 400	70.7	75.3	79.8	83.1	84.4	87.6	90.0	91.1	94.0	95.3	96.1	96.7	97.2	97.4	97.7	
IV 300	70.7	75.3	79.8	83.1	84.4	87.6	90.1	91.2	94.4	96.0	96.7	97.3	98.3	98.5	99.0	
IV 200	70.7	75.3	79.8	83.1	84.4	87.6	90.1	91.3	94.5	96.1	96.9	97.7	98.6	98.9	99.6	
IV 100	70.7	75.3	79.8	83.1	84.4	87.6	90.1	91.3	94.5	96.1	96.9	97.7	98.6	99.0	99.9	
IV 0	70.7	75.3	79.8	83.1	84.4	87.6	90.1	91.3	94.5	96.1	96.9	97.7	98.6	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 33238

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

65-70  
YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

61

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01
NO CEILING															
≥ 20000	26.0	27.3	28.1	29.8	30.1	30.8	31.1	31.2	31.7	31.7	32.0	32.1	32.3	32.5	32.7
18000	31.0	32.3	33.1	34.9	35.3	36.2	36.4	36.6	37.2	37.2	37.5	37.6	37.8	38.0	38.2
16000	31.1	32.5	33.2	35.1	35.4	36.3	36.5	36.7	37.3	37.3	37.6	37.7	38.0	38.1	38.3
14000	31.1	32.5	34.3	35.1	35.5	36.3	36.5	36.7	37.3	37.4	37.7	37.7	38.0	38.2	38.3
12000	31.3	32.6	34.4	35.2	35.6	36.4	36.7	36.9	37.5	37.5	37.8	37.8	38.1	38.3	38.4
10000	33.0	34.4	36.3	37.1	37.5	38.4	38.7	38.9	39.5	39.5	39.8	39.9	40.1	40.3	40.4
9000	34.2	35.7	37.6	38.4	38.8	39.7	39.9	40.1	40.7	40.8	41.0	41.1	41.4	41.6	41.7
8000	37.2	38.8	40.6	41.6	41.9	42.9	43.1	43.3	43.9	43.9	44.2	44.3	44.5	44.7	44.9
7000	39.4	41.0	42.9	43.8	44.3	45.2	45.5	45.6	46.2	46.3	46.6	46.6	46.9	47.1	47.3
6000	41.2	42.9	44.9	45.9	46.4	47.3	47.5	47.7	48.3	48.4	48.6	48.7	49.0	49.2	49.4
5000	43.2	45.0	47.0	48.2	48.6	49.7	49.9	50.1	50.7	50.7	51.0	51.1	51.4	51.5	51.8
4500	44.7	46.4	48.6	49.7	50.2	51.2	51.5	51.7	52.3	52.3	52.6	52.7	52.9	53.1	53.4
4000	46.4	48.3	50.5	51.7	52.2	53.3	53.6	53.9	54.5	54.5	54.9	54.9	55.1	55.3	55.6
3500	48.0	50.2	52.5	53.7	54.2	55.4	55.7	56.0	56.6	56.6	56.9	57.0	57.3	57.5	57.7
3000	49.6	52.2	54.8	56.2	56.8	58.0	58.4	58.7	59.3	59.3	59.8	59.9	60.3	60.5	60.7
2500	52.5	55.6	58.5	60.3	60.9	62.3	63.1	63.5	64.6	64.7	65.0	65.1	65.5	65.7	65.9
2000	54.2	57.5	60.9	63.0	63.7	65.3	66.3	67.0	68.3	68.3	68.7	68.8	69.2	69.4	69.7
1800	54.9	58.4	62.1	64.5	65.2	67.1	68.3	69.0	70.3	70.7	70.9	71.0	71.4	71.6	71.9
1500	56.1	60.1	64.2	67.2	68.0	71.1	72.4	73.1	74.7	74.9	75.2	75.3	75.7	75.9	76.1
1200	57.8	62.0	66.6	70.1	71.3	73.1	76.9	77.8	80.3	80.3	80.9	80.9	81.0	81.4	81.9
1000	58.2	62.5	67.2	70.9	72.2	76.3	78.3	79.4	82.7	83.4	83.9	84.0	84.4	84.6	84.9
900	58.3	62.5	67.4	71.2	72.5	76.8	79.2	80.3	84.1	84.9	85.3	85.7	86.1	86.3	86.6
800	58.3	62.5	67.5	71.2	72.5	77.1	79.6	81.1	85.0	86.6	87.3	87.7	88.1	88.3	88.5
700	58.3	62.7	67.7	71.6	72.9	77.3	80.3	81.4	85.9	87.1	87.2	87.6	88.1	88.3	88.5
600	58.4	63.1	68.3	72.2	73.5	78.1	81.1	82.7	88.3	90.8	92.1	92.4	92.9	93.1	93.4
500	58.4	63.1	68.3	72.4	73.7	78.3	81.4	83.3	89.3	92.0	93.7	94.3	95.0	95.2	95.5
400	58.4	63.1	68.4	72.5	73.8	78.7	81.6	83.5	90.0	93.3	95.1	96.1	96.7	97.0	97.4
300	58.4	63.1	68.4	72.5	73.8	78.7	81.7	83.6	90.3	93.6	95.7	97.0	97.6	98.1	98.5
200	58.4	63.1	68.4	72.5	73.8	78.7	81.7	83.6	90.3	93.6	95.7	97.0	98.0	98.8	99.5
100	58.4	63.1	68.4	72.5	73.8	78.7	81.7	83.6	90.3	93.6	95.7	97.0	98.1	98.9	100.0
0	58.4	63.1	68.4	72.5	73.8	78.7	81.7	83.6	90.3	93.6	95.7	97.0	98.1	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2539

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAP TGL      GERMANY AAF      65-70

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 3/4	≥ 3/8	≥ 1/4	≥ 0
NO CEILING																
≥ 20000		26.9	27.7	29.0	29.3	29.5	29.8	30.0	30.1	30.2	30.3	30.3	30.3	30.4	30.5	30.7
IV 18000		32.7	33.8	35.2	35.5	35.8	36.2	36.4	36.5	36.6	36.7	36.7	36.7	36.8	36.9	37.1
IV 16000		32.7	33.8	35.3	35.6	35.8	36.2	36.4	36.5	36.7	36.7	36.7	36.7	36.8	36.9	37.1
IV 14000		32.9	34.0	35.5	35.8	36.0	36.4	36.6	36.7	36.9	36.9	36.9	36.9	37.0	37.1	37.3
IV 12000		33.6	34.7	36.1	36.4	36.7	37.1	37.3	37.4	37.5	37.6	37.6	37.6	37.6	37.8	38.0
IV 10300		35.0	36.2	37.7	38.1	38.3	38.7	38.9	39.0	39.1	39.2	39.2	39.2	39.2	39.4	39.6
IV 9000		36.2	37.4	38.9	39.2	39.5	39.9	40.1	40.2	40.3	40.4	40.4	40.4	40.4	40.6	40.8
IV 8000		40.7	42.0	43.6	44.1	44.3	44.3	44.3	45.0	45.1	45.3	45.4	45.4	45.4	45.6	45.8
IV 7000		43.5	44.8	46.6	47.0	47.2	47.8	48.0	48.2	48.4	48.5	48.5	48.5	48.5	48.7	48.9
IV 6000		45.2	46.6	48.5	48.9	49.2	49.7	49.9	50.1	50.3	50.3	50.3	50.3	50.4	50.6	50.8
IV 5000		47.4	49.0	50.7	51.3	51.6	52.2	52.4	52.5	52.7	52.8	52.8	52.8	52.9	53.0	53.2
IV 4500		49.4	51.1	53.1	53.5	53.8	54.3	54.5	54.6	54.8	54.9	54.9	54.9	55.0	55.1	55.3
IV 4000		51.6	53.4	55.5	55.9	56.2	56.8	57.0	57.2	57.4	57.5	57.5	57.5	57.5	57.7	57.9
IV 3500		54.9	57.0	59.3	59.8	60.1	60.7	61.0	61.2	61.4	61.5	61.5	61.5	61.6	61.7	61.9
IV 3000		58.1	60.6	63.1	63.7	64.0	64.6	65.0	65.2	65.5	65.6	65.6	65.6	65.7	65.8	66.0
IV 2500		63.3	66.2	69.1	69.8	70.2	71.2	71.7	72.0	72.4	72.5	72.5	72.5	72.6	72.7	72.9
IV 2000		64.5	67.9	71.2	72.1	72.6	73.7	74.3	74.7	75.2	75.3	75.3	75.3	75.4	75.5	75.7
IV 1800		65.5	68.9	72.3	73.2	73.7	74.9	75.6	76.0	76.6	76.7	76.7	76.7	76.8	76.9	77.1
IV 1500		67.0	70.8	74.4	75.6	76.1	78.0	78.9	79.4	80.0	80.1	80.1	80.1	80.2	80.3	80.5
IV 1200		68.1	72.1	76.0	77.5	78.2	80.4	82.0	82.6	83.3	83.6	83.6	83.6	83.7	83.8	84.0
IV 1000		68.4	72.4	76.7	78.4	79.2	81.7	83.7	84.4	85.8	86.1	86.1	86.1	86.2	86.3	86.5
IV 900		68.4	72.5	76.7	78.5	79.4	82.2	84.3	85.3	87.1	87.5	87.6	87.6	87.7	87.8	88.0
IV 800		68.4	72.5	76.8	78.7	79.6	82.8	85.3	86.3	88.5	89.5	89.6	89.6	89.8	90.0	90.2
IV 700		68.6	72.7	76.9	78.9	79.9	83.1	85.8	86.9	89.6	90.8	91.1	91.1	91.3	91.4	91.6
IV 600		68.7	72.7	77.0	79.1	80.1	83.3	86.5	87.9	91.1	92.8	93.1	93.2	93.4	93.5	93.7
IV 500		68.7	72.7	77.0	79.1	80.1	83.3	86.7	88.3	92.1	94.3	95.3	95.3	95.5	95.6	95.8
IV 400		68.7	72.7	77.0	79.1	80.1	83.6	86.8	88.4	92.6	95.3	95.9	96.8	97.2	97.3	97.5
IV 300		68.7	72.7	77.0	79.2	80.2	83.7	86.8	88.5	92.8	96.1	96.9	98.0	98.9	99.1	99.3
IV 200		68.7	72.7	77.0	79.2	80.2	83.7	86.8	88.5	92.8	96.1	97.1	98.3	99.3	99.6	99.8
IV 100		68.7	72.7	77.0	79.2	80.2	83.7	86.8	88.5	92.8	96.1	97.1	98.4	99.4	99.8	100.0
IV 0		68.7	72.7	77.0	79.2	80.2	83.7	86.8	88.5	92.8	96.1	97.1	98.4	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2431



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

ALL  
MONTHS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ ¼	≥ 0
NO CEILING																
≥ 20000	26.8	28.3	29.5	30.3	30.4	30.8	31.0	31.0	31.2	31.2	31.3	31.3	31.4	31.6	31.6	
18000	32.3	33.8	35.1	36.1	36.2	36.6	36.8	36.8	37.0	37.0	37.1	37.1	37.2	37.3	37.4	
16000	32.3	33.8	35.1	36.1	36.2	36.6	36.8	36.8	37.0	37.0	37.1	37.1	37.2	37.3	37.4	
14000	32.3	33.8	35.1	36.1	36.2	36.6	36.8	36.8	37.0	37.0	37.1	37.1	37.2	37.3	37.4	
12000	32.6	34.1	35.5	36.4	36.5	36.9	37.1	37.1	37.3	37.4	37.5	37.5	37.6	37.7	37.8	
10000	33.3	34.9	36.3	37.3	37.4	37.8	38.1	38.1	38.3	38.3	38.5	38.5	38.6	38.7	38.8	
9000	34.2	35.9	37.2	38.2	38.3	38.7	39.0	39.1	39.3	39.3	39.4	39.4	39.6	39.7	39.7	
8000	36.1	37.8	39.3	40.2	40.4	40.8	41.1	41.1	41.3	41.4	41.5	41.5	41.6	41.7	41.8	
7000	37.9	39.7	41.2	42.2	42.4	42.9	43.1	43.2	43.4	43.4	43.5	43.5	43.7	43.8	43.9	
6000	40.1	42.1	43.7	44.7	44.9	45.4	45.6	45.7	45.9	45.9	46.0	46.0	46.2	46.3	46.4	
5000	41.7	43.9	45.5	46.5	46.8	47.2	47.5	47.5	47.8	47.8	47.9	47.9	48.1	48.3	48.4	
4500	42.9	45.1	46.8	47.8	48.1	48.6	48.8	48.9	49.1	49.2	49.3	49.3	49.4	49.6	49.8	
4000	44.3	46.7	48.3	49.4	49.8	50.3	50.6	50.6	50.9	50.9	51.0	51.0	51.2	51.4	51.5	
3500	46.1	48.6	50.4	51.5	51.9	52.4	52.7	52.7	53.0	53.0	53.1	53.1	53.3	53.5	53.6	
3000	48.7	51.4	53.4	54.6	55.0	55.5	55.8	55.9	56.2	56.2	56.4	56.4	56.5	56.7	56.9	
2500	54.4	57.8	60.6	62.4	63.0	63.6	64.0	64.1	64.4	64.4	64.6	64.6	64.7	64.9	65.1	
2000	56.3	60.4	63.9	66.2	66.9	67.9	68.3	68.4	68.8	68.8	68.9	68.9	69.1	69.3	69.4	
1800	56.9	61.1	64.7	67.5	68.0	69.2	69.7	69.8	70.2	70.2	70.3	70.3	70.5	70.7	70.8	
1500	58.0	62.8	66.9	70.0	70.8	72.6	73.5	73.6	74.1	74.2	74.3	74.3	74.5	74.7	74.9	
1200	58.7	64.0	68.4	71.9	72.9	74.1	74.4	74.6	75.1	75.1	75.2	75.2	75.4	75.6	75.8	
1000	58.9	64.2	68.8	72.5	73.6	74.3	74.3	74.5	75.0	75.0	75.1	75.1	75.3	75.5	75.7	
900	59.0	64.3	69.0	72.9	74.0	74.8	74.8	75.0	75.5	75.5	75.6	75.6	75.8	76.0	76.2	
800	59.0	64.4	69.1	73.1	74.3	75.1	75.1	75.3	75.8	75.8	75.9	75.9	76.1	76.3	76.5	
700	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
600	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
500	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
400	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
300	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
200	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
100	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	
0	59.0	64.4	69.2	73.3	74.5	75.3	75.3	75.5	76.0	76.0	76.1	76.1	76.3	76.5	76.7	

TOTAL NUMBER OF OBSERVATIONS 2973

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-70

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

ALL  
 HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0
NO CEILING															
≥ 20000	32.6	33.7	34.4	34.7	34.7	34.9	34.9	34.9	35.0	35.0	35.0	35.0	35.1	35.1	35.1
IV 18000	39.3	40.4	41.1	41.4	41.5	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.9	41.9	41.9
IV 16000	39.4	40.6	41.3	41.6	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.9	42.0	42.0
IV 14000	39.7	40.8	41.5	41.8	41.8	42.0	42.0	42.0	42.1	42.1	42.1	42.1	42.2	42.2	42.3
IV 12000	40.3	41.4	42.1	42.4	42.4	42.6	42.6	42.6	42.7	42.7	42.7	42.7	42.8	42.8	42.9
IV 10000	41.7	42.9	43.6	43.9	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.2	44.3	44.3	44.3
IV 9000	42.6	43.7	44.4	44.7	44.8	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.2	45.2	45.2
IV 8000	46.2	47.3	48.2	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	49.0	49.0	49.0
IV 7000	49.1	50.4	51.2	51.5	51.5	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.9	51.9	52.0
IV 6000	50.0	51.3	52.1	52.4	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.7	52.8	52.8	52.8
IV 5000	51.7	53.1	53.9	54.2	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.6	54.7	54.7	54.7
IV 4500	53.3	54.9	55.7	56.0	56.1	56.3	56.3	56.3	56.4	56.4	56.4	56.4	56.5	56.5	56.6
IV 4000	56.1	57.9	58.6	59.2	59.2	59.4	59.5	59.5	59.6	59.6	59.6	59.6	59.7	59.7	59.8
IV 3500	57.9	59.9	60.9	61.3	61.4	61.7	61.8	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.1
IV 3000	60.9	63.1	64.3	65.0	65.1	65.3	65.6	65.6	65.6	65.6	65.6	65.7	65.8	65.8	65.8
IV 2500	66.4	69.3	71.1	71.9	72.0	72.3	72.6	72.7	72.7	72.7	72.7	72.8	72.9	72.9	72.9
IV 2000	68.5	72.0	74.3	75.3	75.3	76.2	76.4	76.5	76.7	76.7	76.7	76.8	76.9	76.9	76.9
IV 1800	69.0	72.8	75.6	76.3	77.0	77.7	77.9	78.0	78.3	78.3	78.3	78.4	78.5	78.5	78.5
IV 1500	70.4	74.7	78.3	80.2	80.6	81.7	82.1	82.1	82.7	82.7	82.7	82.7	82.8	82.8	82.9
IV 1200	71.1	75.7	79.7	82.3	83.1	84.6	85.1	85.2	85.8	85.8	85.8	85.8	85.9	85.9	86.0
IV 1000	71.5	76.2	80.3	83.3	84.2	86.4	87.2	87.8	88.7	88.8	88.8	88.8	89.0	89.0	89.0
IV 900	71.6	76.3	80.7	83.7	84.6	87.0	87.9	88.6	89.6	89.7	89.7	89.8	90.0	90.0	90.0
IV 800	71.6	76.3	81.0	84.0	85.0	87.8	89.0	89.9	91.1	91.4	91.4	91.5	91.6	91.6	91.7
IV 700	71.7	76.7	81.4	84.6	85.6	88.3	89.3	90.9	92.3	92.7	92.8	92.9	93.1	93.1	93.1
IV 600	71.7	76.7	81.5	84.8	85.9	89.2	90.8	92.0	93.9	94.7	94.9	95.1	95.3	95.3	95.3
IV 500	71.7	76.7	81.5	84.9	86.1	89.3	91.4	92.3	94.9	96.2	96.7	97.2	97.5	97.5	97.6
IV 400	71.8	76.7	81.6	84.9	86.1	89.3	91.5	92.7	95.3	96.9	97.3	98.2	98.9	98.9	98.9
IV 300	71.8	76.7	81.6	84.9	86.1	89.6	91.6	92.8	95.7	97.2	97.9	98.8	99.3	99.3	99.7
IV 200	71.8	76.7	81.6	84.9	86.1	89.6	91.6	92.8	95.7	97.2	98.0	98.9	99.6	99.6	99.9
IV 100	71.8	76.7	81.6	84.9	86.1	89.6	91.6	92.8	95.7	97.2	98.0	98.9	99.6	99.8	100.0
IV 0	71.8	76.7	81.6	84.9	86.1	89.6	91.6	92.8	95.7	97.2	98.0	98.9	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 3045

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 SAE TOLZ GERMANY AAF

65-70

DAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		35.4	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.1	36.1	36.2	36.2	36.2	36.2	36.3
IV 20000		41.8	42.3	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.6	42.6	42.6	42.7	42.7
IV 18000		41.8	42.3	42.4	42.5	42.5	42.5	42.5	42.5	42.6	42.6	42.6	42.6	42.7	42.7	42.8
IV 16000		41.8	42.3	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.7	42.7	42.7	42.7	42.8
IV 14000		41.9	42.4	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.8	42.8	42.8	42.8	42.9
IV 12000		42.6	43.1	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.5
IV 10000		43.9	44.4	44.6	44.6	44.6	44.7	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9	45.0
IV 9000		44.9	45.5	45.6	45.7	45.7	45.8	45.8	45.8	45.9	45.9	45.9	45.9	46.0	46.0	46.1
IV 8000		49.0	49.6	49.7	49.8	49.8	49.8	49.9	49.9	49.9	50.0	50.0	50.0	50.1	50.1	50.2
IV 7000		51.3	52.1	52.3	52.4	52.4	52.4	52.5	52.5	52.5	52.5	52.6	52.6	52.6	52.6	52.7
IV 6000		53.1	53.9	54.1	54.2	54.2	54.2	54.3	54.3	54.3	54.4	54.4	54.4	54.5	54.5	54.5
IV 5000		55.4	56.3	56.5	56.6	56.6	56.6	56.7	56.7	56.7	56.8	56.8	56.8	56.9	56.9	56.9
IV 4500		57.1	58.0	58.2	58.3	58.3	58.3	58.4	58.4	58.4	58.5	58.5	58.5	58.6	58.6	58.7
IV 4000		60.3	61.3	61.4	61.6	61.6	61.6	61.7	61.7	61.7	61.8	61.8	61.8	61.9	61.9	62.0
IV 3500		63.8	64.8	65.0	65.2	65.3	65.3	65.4	65.4	65.4	65.5	65.5	65.5	65.6	65.6	65.7
IV 3000		69.2	70.8	71.2	71.6	71.7	71.8	72.0	72.0	72.0	72.1	72.1	72.1	72.2	72.2	72.2
IV 2500		74.5	76.8	77.5	78.1	78.1	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.7	78.7	78.8
IV 2000		76.9	79.5	80.6	81.5	81.6	82.0	82.2	82.2	82.3	82.4	82.4	82.4	82.5	82.5	82.6
IV 1800		77.7	80.4	81.7	82.8	82.9	83.3	83.5	83.6	83.8	83.8	83.9	83.9	83.9	83.9	84.0
IV 1500		79.9	82.9	84.6	86.0	86.6	87.2	87.6	87.7	87.8	87.9	87.9	87.9	88.1	88.1	88.1
IV 1200		81.4	84.9	87.5	89.5	90.4	91.2	91.5	91.6	92.0	92.0	92.1	92.1	92.2	92.2	92.3
IV 1000		82.0	85.6	88.4	90.8	91.8	92.0	93.2	93.2	93.6	93.7	93.7	93.8	93.9	93.9	94.0
IV 900		82.1	85.8	88.6	91.1	92.4	93.6	94.0	94.0	94.5	94.5	94.6	94.6	94.7	94.7	94.8
IV 800		82.3	86.0	89.0	91.9	93.2	93.0	93.5	93.7	96.4	96.5	96.5	96.6	96.7	96.7	96.7
IV 700		82.6	86.2	89.2	92.2	93.3	93.5	96.2	96.5	97.3	97.4	97.4	97.5	97.6	97.6	97.7
IV 500		82.4	86.2	89.3	92.4	93.8	93.9	96.9	97.3	98.1	98.3	98.3	98.4	98.5	98.5	98.5
IV 400		82.4	86.2	89.2	92.4	93.9	93.9	96.2	97.4	97.8	98.0	98.0	98.1	98.2	98.2	98.3
IV 300		82.4	86.2	89.3	92.4	93.9	93.9	96.2	97.4	97.8	98.0	98.2	98.3	98.5	98.5	98.9
IV 200		82.4	86.2	89.3	92.4	93.9	93.9	96.2	97.4	97.8	98.0	98.2	98.3	98.5	98.8	99.9
IV 100		82.4	86.2	89.3	92.4	93.9	93.9	96.2	97.4	97.8	98.0	98.2	98.3	98.5	98.8	100.0
IV 0		82.4	86.2	89.3	92.4	93.9	93.9	96.2	97.4	97.8	98.0	98.2	98.3	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2813

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 BAF TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	
NO CEILING																
≥ 20000	36.8	37.3	38.2	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7	38.8	
IV 18000	41.6	42.2	43.2	43.5	43.5	43.6	43.6	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.9	44.0
IV 16000	41.8	42.4	43.4	43.7	43.7	43.8	43.8	43.8	43.8	43.9	43.9	43.9	43.9	43.9	43.9	44.0
IV 14000	41.9	42.5	43.5	43.8	43.8	43.9	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.1
IV 12000	43.4	42.9	43.9	44.2	44.2	44.3	44.3	44.3	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.5
IV 10000	44.0	44.6	45.6	45.9	45.9	46.0	46.0	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.2
IV 9000	45.3	45.9	46.8	47.2	47.2	47.3	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.5
IV 8000	49.1	49.7	50.8	51.2	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.5
IV 7000	50.1	50.8	51.9	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.6
IV 6000	51.9	52.4	53.7	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.4
IV 5000	54.2	54.9	56.1	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.8
IV 4500	56.3	57.0	58.4	58.8	58.8	58.9	58.9	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.1
IV 4000	60.0	60.8	62.3	62.7	62.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.1
IV 3500	64.2	65.3	67.1	67.5	67.5	67.7	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.9
IV 3000	71.1	72.3	74.3	75.0	75.1	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.4
IV 2500	76.7	78.5	80.9	81.7	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.2
IV 2000	80.0	82.3	84.8	85.8	86.0	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.5
IV 1800	80.7	83.1	85.8	87.0	87.1	87.4	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.7
IV 1500	82.3	85.2	88.7	90.2	90.4	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.1
IV 1200	83.8	87.2	91.0	93.0	93.4	94.0	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.3
IV 1000	84.1	87.6	91.5	93.7	94.1	94.8	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.1	95.1	95.2
IV 900	84.2	87.7	91.7	94.4	95.0	95.9	95.9	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.3
IV 800	84.4	88.0	92.4	95.0	95.8	96.8	96.8	97.0	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.5
IV 700	84.4	88.0	92.5	95.2	96.1	97.3	97.4	97.6	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.3
IV 600	84.5	88.1	92.5	95.3	96.2	97.6	97.8	98.0	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.7
IV 500	84.5	88.2	92.7	95.4	96.4	97.8	98.3	98.6	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.6
IV 400	84.5	88.2	92.7	95.5	96.5	98.0	98.6	98.8	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.9
IV 300	84.5	88.2	92.7	95.5	96.5	98.0	98.6	98.8	99.6	99.7	99.7	99.7	99.8	99.8	99.9	100.0
IV 200	84.5	88.2	92.7	95.5	96.5	98.0	98.6	98.8	99.6	99.7	99.7	99.7	99.8	99.8	99.9	100.0
IV 100	84.5	88.2	92.7	95.5	96.5	98.0	98.6	98.8	99.6	99.7	99.7	99.7	99.8	99.8	99.9	100.0
IV 0	84.5	88.2	92.7	95.5	96.5	98.0	98.6	98.8	99.6	99.7	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 2627

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-70

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .1	≥ .16	≥ .1	≥ .1	
NO CEILING																	
≥ 20000	40.0	41.2	41.5	41.6	41.6	41.7	41.9	42.0	42.0	42.2	42.2	42.3	42.4	42.4	42.4	42.6	
IV 18000	44.0	45.2	45.7	45.8	45.8	45.9	46.1	46.2	46.3	46.4	46.4	46.5	46.6	46.7	46.7	46.9	
IV 16000	44.0	45.2	45.7	45.8	45.8	45.9	46.1	46.2	46.3	46.4	46.4	46.5	46.6	46.7	46.7	46.9	
IV 14000	44.0	45.3	45.7	45.9	45.9	46.0	46.1	46.3	46.3	46.5	46.5	46.6	46.7	46.7	46.9	47.0	
IV 12000	44.0	45.3	45.7	45.9	45.9	46.0	46.1	46.3	46.3	46.5	46.5	46.6	46.7	46.7	46.9	47.0	
IV 10000	46.6	47.9	48.3	48.5	48.5	48.6	48.7	48.8	48.9	49.0	49.0	49.2	49.2	49.3	49.3	49.5	
IV 9000	47.7	49.1	49.6	49.7	49.7	49.8	50.0	50.1	50.2	50.3	50.3	50.4	50.5	50.6	50.6	50.8	
IV 8000	51.7	53.1	53.6	53.7	53.7	53.9	54.0	54.1	54.2	54.3	54.3	54.5	54.5	54.6	54.6	54.8	
IV 7000	54.4	55.9	56.4	56.6	56.6	56.8	57.0	57.1	57.2	57.3	57.3	57.4	57.5	57.6	57.6	57.8	
IV 6000	56.8	58.3	58.8	59.0	59.0	59.1	59.3	59.3	59.5	59.5	59.7	59.7	59.8	59.9	59.9	60.1	
IV 5000	60.1	61.7	62.3	62.5	62.5	62.7	62.9	63.0	63.1	63.2	63.2	63.4	63.4	63.5	63.5	63.7	
IV 4500	63.0	64.6	65.3	65.5	65.5	65.8	66.0	66.1	66.2	66.3	66.3	66.5	66.5	66.6	66.6	66.8	
IV 4000	67.2	68.9	69.5	69.8	69.8	70.2	70.3	70.6	70.7	70.8	70.8	70.9	71.0	71.1	71.1	71.3	
IV 3500	71.2	73.4	73.9	74.3	74.3	74.8	75.1	75.2	75.3	75.4	75.4	75.5	75.6	75.7	75.7	75.9	
IV 3000	75.6	77.8	79.2	79.7	79.8	80.3	80.5	80.7	80.7	80.9	80.9	80.9	81.0	81.1	81.1	81.3	
IV 2500	81.2	84.2	85.7	86.4	86.4	87.0	87.3	87.4	87.5	87.5	87.5	87.6	87.7	87.8	87.9	88.1	
IV 2000	82.1	86.5	88.0	88.8	88.8	89.5	89.8	89.9	90.0	90.1	90.1	90.2	90.3	90.4	90.4	90.6	
IV 1800	83.7	87.4	89.2	90.2	90.2	90.9	91.2	91.4	91.5	91.6	91.6	91.7	91.8	91.9	92.1	92.1	
IV 1500	84.8	89.1	91.6	93.0	93.1	94.0	94.3	94.4	94.6	94.7	94.7	94.8	94.9	94.9	95.1	95.1	
IV 1200	85.4	90.1	92.7	94.3	94.3	95.1	95.7	96.2	96.3	96.5	96.6	96.6	96.7	96.8	96.9	97.1	
IV 1000	85.8	90.5	93.4	94.9	95.1	96.0	97.1	97.3	97.5	97.6	97.6	97.6	97.7	97.8	97.9	98.1	
IV 900	85.8	90.5	93.4	94.9	95.1	96.0	97.1	97.3	97.5	97.6	97.6	97.7	97.8	97.9	98.0	98.2	
IV 800	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.2	
IV 700	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 600	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 500	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 400	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 300	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 200	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 100	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	
IV 0	86.0	90.9	93.8	95.4	95.6	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.4	

TOTAL NUMBER OF OBSERVATIONS 2514

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14197 BAB TOLZ GERMANY AAF

65-70

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .00
NO CEILING																
≥ 20000	31.5	32.3	34.2	34.0	35.0	35.3	35.3	35.4	35.6	35.7	35.8	35.8	36.0	36.0	36.4	36.4
IV 18000	37.2	38.3	40.2	40.8	41.0	41.3	41.3	41.4	41.6	41.7	41.8	41.9	42.0	42.1	42.1	42.4
IV 16000	37.2	38.3	40.2	40.9	41.0	41.3	41.4	41.4	41.7	41.8	41.9	41.9	42.1	42.1	42.1	42.4
IV 14000	37.4	38.5	40.4	41.0	41.2	41.5	41.5	41.6	41.8	41.9	42.0	42.0	42.2	42.3	42.3	42.6
IV 12000	37.6	38.8	40.7	41.3	41.4	41.7	41.8	41.9	42.1	42.2	42.3	42.3	42.5	42.5	42.5	42.8
IV 10000	39.9	41.0	43.0	43.5	43.8	44.1	44.1	44.2	44.5	44.6	44.7	44.7	44.9	44.9	45.3	45.3
IV 9000	41.4	42.3	44.3	43.1	45.3	45.6	45.6	45.7	46.0	46.1	46.2	46.2	46.4	46.5	46.8	46.8
IV 8000	46.2	47.6	49.7	50.7	50.9	51.3	51.3	51.4	51.7	51.8	51.8	51.9	52.1	52.1	52.5	52.5
IV 7000	49.0	50.8	52.9	53.9	54.2	54.6	54.6	54.7	55.0	55.1	55.2	55.2	55.4	55.5	55.8	55.8
IV 6000	51.2	53.1	55.3	56.3	56.6	57.0	57.0	57.1	57.4	57.5	57.6	57.6	57.9	57.9	58.2	58.2
IV 5000	54.3	56.4	58.6	59.6	59.8	60.3	60.3	60.4	60.7	60.8	60.9	61.0	61.2	61.2	61.5	61.5
IV 4500	56.1	58.2	60.5	61.5	61.8	62.2	62.3	62.4	62.7	62.8	62.9	63.0	63.2	63.2	63.6	63.6
IV 4000	60.1	62.4	64.9	65.9	66.2	66.6	66.7	66.9	67.1	67.2	67.4	67.4	67.7	67.7	68.0	68.0
IV 3500	64.6	67.3	69.9	70.9	71.3	71.8	71.9	72.1	72.3	72.5	72.6	72.6	72.9	72.9	73.2	73.2
IV 3000	68.8	72.1	75.1	76.3	76.7	77.3	77.4	77.5	77.8	78.0	78.1	78.1	78.4	78.4	78.7	78.7
IV 2500	72.2	76.0	79.3	80.8	81.2	81.8	81.9	82.0	82.3	82.5	82.6	82.6	82.9	82.9	83.2	83.2
IV 2000	74.6	79.0	82.0	84.6	85.0	85.7	85.8	85.9	86.2	86.4	86.5	86.5	86.7	86.8	87.1	87.1
IV 1800	75.6	80.3	84.3	85.9	86.3	87.1	87.2	87.4	87.6	87.8	87.9	87.9	88.2	88.2	88.5	88.5
IV 1500	76.9	82.2	86.6	88.3	88.9	89.8	90.0	90.2	90.5	90.7	90.8	90.8	91.0	91.1	91.4	91.4
IV 1200	77.7	83.4	88.3	90.3	91.3	92.3	92.7	92.8	93.1	93.3	93.4	93.4	93.7	93.7	94.0	94.0
IV 1000	78.1	84.0	89.0	91.4	92.2	93.3	94.1	94.2	94.7	94.8	94.9	94.9	95.2	95.2	95.6	95.6
IV 900	78.3	84.3	89.4	91.8	92.6	94.1	94.6	94.7	95.3	95.4	95.5	95.6	95.8	95.9	96.2	96.2
IV 800	78.4	84.7	89.7	92.3	93.2	94.7	95.4	95.5	96.2	96.4	96.5	96.6	96.8	96.8	97.2	97.2
IV 700	78.4	84.7	89.9	92.4	93.3	93.0	93.8	95.9	96.8	96.9	97.0	97.1	97.5	97.5	97.7	97.7
IV 600	78.4	84.7	90.0	92.5	93.4	93.3	96.3	96.7	97.0	97.7	97.8	97.9	98.1	98.2	98.5	98.5
IV 500	78.4	84.7	90.1	92.6	93.5	93.5	96.8	97.2	98.1	98.3	98.4	98.5	98.7	98.7	99.1	99.1
IV 400	78.4	84.7	90.1	92.7	93.6	93.6	96.9	97.2	98.4	98.6	98.7	98.8	99.0	99.1	99.6	99.6
IV 300	78.4	84.7	90.1	92.7	93.6	93.6	97.0	97.3	98.6	98.9	99.0	99.1	99.3	99.4	99.9	99.9
IV 200	78.4	84.7	90.1	92.7	93.6	93.6	97.0	97.2	98.6	98.9	99.0	99.1	99.3	99.4	100.0	100.0
IV 100	78.4	84.7	90.1	92.7	93.6	93.6	97.0	97.3	98.6	98.9	99.0	99.1	99.3	99.4	100.0	100.0
IV 0	78.4	84.7	90.1	92.7	93.6	93.6	97.0	97.3	98.6	98.9	99.0	99.1	99.3	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2712

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

64-70

PERCENTAGE FREQUENCY (OF OCCURRENCE)  
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING																
IV 20000	36.7	38.4	40.7	42.2	42.6	43.2	43.6	43.6	44.1	44.4	44.5	44.9	45.5	45.8	46.2	
IV 18000	42.1	44.1	46.6	48.1	48.5	49.1	49.6	49.6	50.1	50.5	50.6	51.0	51.6	51.9	52.4	
IV 16000	42.1	44.1	46.6	48.1	48.5	49.1	49.6	49.6	50.1	50.5	50.6	51.0	51.6	51.9	52.4	
IV 14000	42.1	44.1	46.6	48.1	48.5	49.1	49.6	49.6	50.1	50.5	50.6	51.0	51.6	51.9	52.4	
IV 12000	42.6	44.5	47.0	48.6	48.9	49.6	50.0	50.5	50.6	51.0	51.1	51.5	52.1	52.4	52.9	
IV 10000	44.9	46.9	49.4	51.0	51.3	51.9	52.4	52.5	53.0	53.4	53.5	53.9	54.5	54.8	55.3	
IV 9000	45.0	48.0	50.5	52.1	52.4	53.0	53.5	53.6	54.1	54.5	54.6	55.0	55.6	55.9	56.4	
IV 8000	48.5	51.0	53.6	55.3	55.7	56.4	56.9	57.0	57.5	57.9	58.1	58.4	59.1	59.4	59.9	
IV 7000	51.1	53.9	56.5	58.4	58.8	59.6	60.1	60.1	60.7	61.1	61.2	61.6	62.3	62.6	63.0	
IV 6000	52.8	55.7	58.4	60.4	60.8	61.6	62.1	62.1	62.6	63.0	63.2	63.6	64.2	64.5	65.0	
IV 5000	55.1	58.1	60.9	62.9	63.2	64.0	64.5	64.6	65.1	65.5	65.7	66.0	66.7	67.0	67.8	
IV 4500	57.0	60.1	62.9	64.9	65.3	66.1	66.6	66.6	67.1	67.5	67.7	68.1	68.8	69.0	69.5	
IV 4000	59.4	62.9	65.7	67.7	68.1	68.9	69.4	69.5	70.0	70.4	70.5	70.9	71.6	71.9	72.5	
IV 3500	62.7	66.4	69.6	71.7	72.1	72.9	73.4	73.6	74.1	74.5	74.7	75.1	75.7	76.0	76.5	
IV 3000	57.1	71.5	74.9	77.4	77.9	78.8	79.3	79.3	80.0	80.4	80.7	81.0	81.7	82.0	82.5	
IV 2500	59.8	74.4	78.1	80.8	81.2	82.4	83.0	83.2	83.8	84.2	84.4	84.8	85.4	85.7	86.2	
IV 2000	71.0	75.7	79.9	83.3	83.7	85.1	85.8	86.0	86.6	87.0	87.2	87.5	88.2	88.5	89.0	
IV 1800	71.2	75.9	80.3	83.7	84.2	85.6	85.3	86.4	87.0	87.4	87.7	88.0	88.7	89.0	89.3	
IV 1500	71.8	76.7	81.8	85.6	86.1	87.9	88.6	88.8	89.5	89.9	90.1	90.4	91.1	91.4	91.9	
IV 1200	72.1	77.2	82.4	86.0	87.1	87.9	90.2	90.4	91.1	91.5	91.7	92.1	92.7	93.1	93.6	
IV 1000	72.2	77.4	82.8	87.1	87.7	90.1	91.1	91.4	92.2	92.7	92.9	93.3	94.0	94.3	94.8	
IV 900	72.3	77.5	83.0	87.5	88.2	90.8	91.9	92.2	93.0	93.4	93.7	94.1	94.8	95.1	95.6	
IV 800	72.3	77.6	83.2	87.7	88.5	91.1	92.2	92.6	93.4	93.9	94.2	94.6	95.2	95.5	96.0	
IV 700	72.4	77.6	83.2	87.9	88.8	91.6	92.9	93.3	94.3	94.8	95.1	95.5	96.2	96.5	97.0	
IV 600	72.5	77.6	83.2	87.9	88.9	91.7	93.0	93.5	94.5	95.1	95.5	95.9	96.5	96.8	97.3	
IV 500	72.4	77.6	83.2	87.9	88.9	91.8	93.2	93.7	94.9	95.6	96.1	96.6	97.3	97.6	98.1	
IV 400	72.4	77.6	83.2	87.9	88.9	91.8	93.3	94.0	95.4	96.2	96.6	97.2	98.0	98.3	98.9	
IV 300	72.4	77.6	83.2	87.9	88.9	91.8	93.3	94.0	95.6	96.5	97.1	97.7	98.5	98.8	99.6	
IV 200	72.4	77.6	83.2	87.9	88.9	91.8	93.3	94.0	95.6	96.5	97.1	97.8	98.6	98.9	99.3	
IV 100	72.4	77.6	83.2	87.9	88.9	91.8	93.3	94.0	95.6	96.5	97.1	97.8	98.6	99.0	100.0	
IV 0	72.4	77.6	83.2	87.9	88.9	91.8	93.3	94.0	95.6	96.5	97.1	97.8	98.6	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS

2730

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 94197 BAD TOLZ GERMANY AAF 64-70  
STATION NO. STATION NAME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .1
NO CEILING	45.1	46.6	48.3	48.8	49.1	49.5	49.9	50.0	50.3	50.6	50.7	51.0	51.4	51.6	52.0	
≥ 20600	48.7	50.3	52.2	52.7	53.1	53.6	53.9	54.0	54.4	54.7	54.8	55.1	55.5	55.7	56.1	
≥ 15000	48.9	50.4	52.3	51.9	53.3	53.7	54.1	54.2	54.5	54.8	54.9	55.2	55.7	55.8	56.3	
IV 16000	48.9	50.4	52.4	52.9	53.3	53.9	54.1	54.2	54.5	54.8	54.9	55.2	55.7	55.8	56.3	
IV 14000	49.0	50.5	52.4	53.0	53.4	53.8	54.2	54.3	54.7	54.9	55.0	55.3	55.8	55.9	56.4	
IV 12000	49.3	51.0	52.9	53.5	53.9	54.3	54.7	54.8	55.2	55.4	55.5	55.8	56.3	56.5	56.9	
IV 10000	51.1	52.7	54.6	55.2	55.6	56.0	56.4	56.5	56.9	57.1	57.2	57.5	58.0	58.2	58.6	
IV 9000	52.1	53.7	55.6	56.1	56.6	57.0	57.4	57.5	57.9	58.2	58.3	58.6	59.0	59.2	59.6	
IV 8000	54.3	55.9	57.9	58.4	58.8	59.2	59.7	59.8	60.1	60.4	60.5	60.8	61.3	61.4	61.7	
IV 7000	56.2	57.8	59.8	60.3	60.7	61.2	61.6	61.7	62.0	62.3	62.3	62.8	63.3	63.4	63.9	
IV 6000	56.8	58.4	60.4	60.9	61.4	61.9	62.2	62.4	62.7	63.0	63.1	63.4	64.0	64.1	64.5	
IV 5000	59.4	61.2	63.3	64.0	64.5	65.0	65.3	65.5	65.8	66.1	66.2	66.5	67.1	67.2	67.6	
IV 4500	61.0	62.8	64.9	65.7	66.1	66.6	67.0	67.1	67.5	67.7	67.9	68.2	68.7	68.8	69.2	
IV 4000	63.2	65.1	67.2	68.0	68.4	68.9	69.3	69.4	69.8	70.1	70.2	70.5	71.0	71.2	71.6	
IV 3500	64.9	66.8	69.0	69.7	70.2	70.8	71.2	71.3	71.7	72.0	72.1	72.4	72.9	73.1	73.5	
IV 3000	67.3	69.4	71.9	72.8	73.4	74.0	74.4	74.5	74.9	75.2	75.3	75.6	76.1	76.3	76.7	
IV 2500	69.7	72.3	75.0	75.9	76.5	77.1	77.5	77.6	78.0	78.3	78.4	78.7	79.3	79.4	79.8	
IV 2000	71.2	73.7	76.6	77.6	78.3	79.0	79.5	79.6	80.0	80.3	80.4	80.7	81.2	81.4	81.9	
IV 1800	71.8	74.1	77.2	78.2	78.9	79.6	80.1	80.2	80.6	80.9	81.0	81.4	81.8	82.1	82.6	83.2
IV 1500	73.2	76.2	79.5	80.7	81.6	82.3	82.8	82.9	83.3	83.6	83.7	83.9	84.2	84.7	84.9	85.3
IV 1200	73.5	76.9	80.3	81.8	82.9	83.8	84.3	84.4	84.7	85.3	85.6	85.7	86.0	86.5	86.6	87.1
IV 1000	73.9	77.2	81.1	82.9	84.4	85.6	86.6	86.9	87.6	87.8	88.0	88.3	88.8	88.9	89.4	
IV 900	73.9	77.3	81.3	83.4	84.7	85.7	86.4	87.3	87.6	88.3	88.6	88.7	89.0	89.5	89.7	90.2
IV 800	73.9	77.3	81.3	83.4	85.1	86.6	88.0	88.4	89.3	89.5	89.7	90.0	90.5	90.6	91.1	
IV 700	73.9	77.3	81.3	83.4	85.6	87.5	89.5	90.2	91.1	91.7	91.9	92.2	92.7	92.8	93.3	
IV 600	73.9	77.3	81.7	84.2	85.8	87.7	90.2	91.1	92.9	93.4	93.6	93.9	94.4	94.5	95.0	
IV 500	73.9	77.3	81.9	84.2	86.0	88.0	90.8	91.9	94.4	95.0	95.3	95.6	96.3	96.3	96.9	
IV 400	73.9	77.3	81.9	84.2	86.0	88.0	90.9	91.9	94.9	95.8	96.2	96.8	97.7	97.8	98.4	
IV 300	73.9	77.3	81.9	84.2	86.0	88.0	90.9	91.9	95.0	96.1	96.6	97.1	98.3	98.5	99.1	
IV 200	73.9	77.3	81.9	84.2	86.0	88.0	90.9	91.9	95.0	96.1	96.6	97.1	98.3	98.5	99.9	
IV 100	73.9	77.3	81.9	84.2	86.0	88.0	90.9	91.9	95.0	96.1	96.6	97.1	98.3	98.5	100.0	
IV 0	73.9	77.3	81.9	84.2	86.0	88.0	90.9	91.9	95.0	96.1	96.6	97.1	98.3	98.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 2935



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 8AP TOLZ GERMANY AAF

64-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .4	
IV CEILING														
IV 20000	25.5	26.2	27.1	27.5	27.8	28.0	28.4	28.4	28.6	28.6	28.6	28.7	28.9	29.1
IV 8000	31.1	32.1	33.0	33.5	33.8	34.1	34.5	34.6	34.7	34.7	34.8	34.8	35.1	35.2
IV 16000	31.1	32.1	33.0	33.5	33.8	34.1	34.5	34.6	34.7	34.8	34.8	34.9	35.1	35.2
IV 14000	31.3	32.2	33.2	33.7	34.0	34.3	34.7	34.8	34.9	34.9	34.9	35.0	35.2	35.4
IV 12000	31.8	32.7	33.7	34.2	34.5	34.8	35.2	35.2	35.3	35.4	35.4	35.5	35.7	35.8
IV 10000	33.4	34.4	35.4	35.9	36.2	36.5	36.9	37.0	37.1	37.1	37.1	37.2	37.5	37.6
IV 9000	34.0	35.0	36.0	36.6	36.9	37.2	37.6	37.7	37.8	37.8	37.9	38.0	38.2	38.3
IV 8000	36.5	37.5	38.6	39.4	39.7	40.1	40.6	40.6	40.8	40.8	40.9	41.0	41.2	41.4
IV 7000	39.1	40.1	41.2	42.0	42.4	42.8	43.2	43.4	43.6	43.7	43.8	43.9	44.1	44.3
IV 6000	40.5	41.6	42.6	43.2	43.9	44.3	44.9	45.0	45.2	45.3	45.3	45.4	45.7	45.8
IV 5000	43.2	44.4	45.6	46.5	46.9	47.3	47.9	48.0	48.2	48.3	48.4	48.5	48.7	48.9
IV 4500	45.5	46.5	47.8	48.7	49.1	49.5	50.1	50.2	50.4	50.5	50.6	50.7	50.9	51.1
IV 4000	47.5	48.8	50.0	51.0	51.5	52.1	52.7	52.8	53.1	53.2	53.3	53.4	53.6	53.8
IV 3500	50.0	51.4	52.9	53.8	54.5	55.1	55.8	55.9	56.2	56.3	56.3	56.4	56.7	56.9
IV 3000	52.1	53.7	55.4	56.6	57.3	58.1	58.8	58.9	59.2	59.3	59.4	59.5	59.7	59.9
IV 2500	55.0	56.9	59.0	60.6	61.5	62.3	63.0	63.1	63.5	63.6	63.6	63.7	63.9	64.1
IV 2000	56.7	59.0	61.5	63.4	64.3	65.2	66.0	66.1	66.4	66.5	66.6	66.7	66.9	67.1
IV 1800	57.4	59.9	62.6	64.6	65.5	66.6	67.4	67.6	67.9	68.0	68.0	68.1	68.4	68.6
IV 1500	58.7	61.5	64.6	67.1	68.2	69.3	70.6	70.9	71.3	71.4	71.5	71.6	71.8	72.0
IV 1200	59.7	62.7	66.4	69.3	70.6	72.2	73.6	73.9	74.4	74.5	74.6	74.7	74.9	75.1
IV 1000	60.0	63.3	67.3	70.7	72.1	74.3	76.1	76.6	77.4	77.7	77.8	77.9	78.1	78.3
IV 900	60.2	63.5	67.6	71.2	72.7	75.3	77.1	77.6	78.6	78.9	79.1	79.2	79.5	79.7
IV 800	60.2	63.6	67.8	71.6	73.1	75.9	78.5	79.2	80.6	81.0	81.1	81.3	81.6	81.8
IV 700	60.3	63.7	68.0	72.0	73.7	77.5	80.2	81.0	82.6	83.6	83.9	84.2	84.5	84.7
IV 600	60.6	63.8	68.2	72.3	74.0	78.2	81.2	82.2	84.3	85.3	86.0	86.3	86.9	87.1
IV 500	60.4	63.3	68.3	72.5	74.2	78.8	82.4	83.7	86.7	88.3	89.0	89.7	90.2	90.5
IV 400	60.4	63.8	68.3	72.5	74.3	79.0	83.0	84.7	88.0	90.0	90.7	91.8	92.4	92.9
IV 300	60.4	63.8	68.3	72.5	74.3	79.1	83.2	85.1	89.0	91.3	92.1	93.7	95.0	95.1
IV 200	60.4	63.8	68.3	72.5	74.3	79.1	83.2	85.1	89.0	91.4	92.3	94.1	95.8	96.0
IV 100	60.4	63.8	68.3	72.5	74.3	79.1	83.2	85.1	89.0	91.4	92.3	94.1	96.0	96.3
IV 0	60.4	63.8	68.3	72.5	74.3	79.1	83.2	85.1	89.0	91.4	92.3	94.1	96.0	100.0

TOTAL NUMBER OF OBSERVATIONS 3044

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

64-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING ≥ 20000		20.6	21.7	22.7	22.9	23.1	23.7	24.1	24.1	24.4	24.6	24.8	24.8	25.0	25.2	25.4
IVV 18000		23.8	25.2	26.3	26.5	26.7	27.3	27.7	27.7	28.1	28.2	28.4	28.5	28.6	28.8	29.1
IVV 16000		23.8	25.2	26.3	26.5	26.7	27.3	27.7	27.7	28.1	28.2	28.4	28.5	28.6	28.8	29.1
IVV 14000		24.0	25.3	26.4	26.6	26.8	27.4	27.9	27.9	28.2	28.3	28.6	28.6	28.8	29.0	29.3
IVV 12000		24.0	25.3	26.4	26.6	26.8	27.4	27.9	27.9	28.2	28.3	28.6	28.6	28.8	29.0	29.3
IVV 10000		25.3	26.7	27.8	28.0	28.2	28.8	29.3	29.3	29.6	29.8	30.0	30.1	30.2	30.4	30.7
IVV 9000		26.3	27.7	28.8	29.0	29.2	29.8	30.3	30.3	30.7	30.8	31.0	31.1	31.2	31.5	31.8
IVV 8000		28.9	30.4	31.5	31.8	32.0	32.6	33.0	33.0	33.5	33.6	33.8	33.9	34.0	34.3	34.5
IVV 7000		31.8	33.3	34.5	34.7	34.9	35.5	36.0	36.0	36.4	36.6	36.8	36.9	37.0	37.3	37.5
IVV 6000		33.4	35.0	36.2	36.5	36.7	37.4	37.9	37.9	38.4	38.6	38.8	38.9	39.0	39.3	39.7
IVV 5000		35.5	37.2	38.4	38.7	38.9	39.7	40.2	40.2	40.6	40.8	41.1	41.1	41.3	41.5	41.9
IVV 4500		37.9	39.6	40.8	41.3	41.4	42.2	42.7	42.7	43.2	43.4	43.6	43.7	43.8	44.1	44.5
IVV 4000		39.7	41.5	42.8	43.4	43.5	44.4	45.1	45.1	45.7	45.9	46.1	46.2	46.3	46.6	47.0
IVV 3500		42.9	44.8	46.1	46.7	46.9	47.7	48.4	48.5	49.1	49.3	49.6	49.6	49.8	50.0	50.4
IVV 3000		46.0	48.7	50.5	51.3	51.6	52.8	53.6	53.7	54.4	54.6	54.9	55.0	55.1	55.3	55.8
IVV 2500		50.3	52.9	55.2	56.2	56.9	58.1	58.9	58.9	59.8	60.0	60.2	60.3	60.5	60.7	61.1
IVV 2000		52.6	55.6	59.0	60.7	61.4	62.7	63.6	63.7	64.6	64.9	65.1	65.2	65.4	65.6	66.0
IVV 1800		53.1	56.3	60.0	61.7	62.4	64.2	65.1	65.2	66.2	66.5	66.7	66.8	66.9	67.2	67.6
IVV 1500		54.6	58.1	61.8	64.0	65.0	67.1	68.5	68.6	69.8	70.2	70.4	70.5	70.6	70.9	71.3
IVV 1200		55.4	59.4	63.8	66.5	67.8	70.8	72.1	72.3	74.0	74.5	74.7	74.9	75.0	75.3	75.8
IVV 1000		53.6	59.8	64.2	67.2	68.7	72.0	74.0	74.4	76.2	76.9	77.3	77.5	77.6	77.9	78.3
IVV 900		53.6	59.8	64.2	67.4	68.9	72.5	74.5	75.2	77.4	78.2	78.5	78.9	79.1	79.5	79.9
IVV 800		53.6	59.9	64.6	67.8	69.7	73.5	76.4	77.0	79.7	80.8	81.5	81.8	82.0	82.2	82.7
IVV 700		53.8	60.2	64.9	68.2	70.3	74.5	77.6	78.4	81.5	82.8	83.8	84.3	84.5	84.7	85.1
IVV 600		53.9	60.3	65.1	68.5	70.5	75.2	78.7	79.6	83.3	85.0	86.1	86.6	86.9	87.2	87.6
IVV 500		56.0	60.4	65.3	68.7	70.8	75.7	79.4	80.4	84.9	87.1	88.5	89.6	90.2	90.4	90.9
IVV 400		56.0	60.4	65.3	68.8	70.9	75.9	79.9	80.0	85.3	88.7	90.4	91.7	92.6	92.9	93.5
IVV 300		56.0	60.4	65.4	69.1	71.0	76.3	80.8	82.2	87.9	90.9	92.8	94.2	95.5	96.0	97.0
IVV 200		56.0	60.4	65.4	69.0	71.0	76.4	80.9	82.4	88.3	91.4	93.2	95.0	96.8	97.6	99.2
IVV 100		56.0	60.4	65.4	69.0	71.0	76.4	80.9	82.4	88.3	91.4	93.2	95.0	96.8	97.7	100.0
IVV 0		56.0	60.4	65.4	69.0	71.0	76.4	80.9	82.4	88.3	91.4	93.2	95.0	96.8	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 2875

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

69

STATION

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

FORM NO. 1  
 (7-57)  
 GPO

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ ⅒	≥ ⅛	≥ 1/16	0
NO CEILING ≥ 20000																
IV 18000 16000																
IV 14000 12000																
IV 10000 9000																
IV 8000 7000	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 6000 5000	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 4500 4000	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 3500 3000	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 2500 2000	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 1800 1500	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 1200 1000	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 900 800	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 700 600	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 500 400	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 300 200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 100 0	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL NUMBER OF OBSERVATIONS 2

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

66-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0300-0500

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 3/4	≥ 3/8	≥ 1/4	≥ 0
NO CEILING		22.8	22.8	24.1	24.6	24.6	26.8	27.2	27.7	29.5	29.5	30.4	30.4	31.3	31.7	32.1
IV 20000		24.6	24.6	25.9	26.3	26.3	28.6	29.0	29.5	31.3	31.3	32.1	32.1	33.0	33.5	33.9
IV 18000		24.6	24.6	25.9	26.3	26.3	28.6	29.0	29.5	31.3	31.3	32.1	32.1	33.0	33.5	33.9
IV 16000		24.6	24.6	25.9	26.3	26.3	28.6	29.0	29.5	31.3	31.3	32.1	32.1	33.0	33.5	33.9
IV 14000		24.6	24.6	25.9	26.3	26.3	28.6	29.0	29.5	31.3	31.3	32.1	32.1	33.0	33.5	33.9
IV 12000		24.6	24.6	25.9	26.3	26.3	28.6	29.0	29.5	31.3	31.3	32.1	32.1	33.0	33.5	33.9
IV 10000		27.2	27.2	28.6	29.0	29.0	31.3	31.7	32.1	33.9	33.9	34.8	34.8	35.7	36.2	36.6
IV 9000		28.1	28.1	29.5	29.9	29.9	32.1	32.6	33.0	34.8	34.8	35.7	35.7	36.6	37.1	37.5
IV 8000		30.4	30.4	31.7	32.1	32.1	34.4	34.8	35.3	37.1	37.1	37.9	37.9	38.8	39.3	39.7
IV 7000		30.8	30.8	32.1	32.6	32.6	34.8	35.3	35.7	37.5	37.5	38.4	38.4	39.3	39.7	40.2
IV 6000		32.1	32.1	33.5	33.9	33.9	36.2	36.6	37.1	38.8	38.8	39.7	39.7	40.6	41.1	41.5
IV 5000		36.2	36.2	37.5	37.9	37.9	40.2	40.6	41.1	42.9	42.9	43.8	43.8	44.6	45.1	45.5
IV 4500		37.5	37.5	38.8	39.3	39.3	41.5	42.0	42.4	44.2	44.2	45.1	45.1	46.0	46.4	46.9
IV 4000		38.4	38.8	40.2	40.6	40.6	42.9	43.3	43.8	45.5	45.5	46.4	46.4	47.3	47.8	48.2
IV 3500		41.5	42.9	44.2	44.6	44.6	46.9	47.3	47.8	49.6	49.6	50.4	50.4	51.3	51.8	52.2
IV 3000		44.2	46.0	47.8	49.1	49.1	51.3	51.8	52.2	54.9	54.9	55.7	55.7	56.6	56.7	57.1
IV 2500		46.4	49.1	50.9	53.1	53.1	55.8	57.1	57.6	59.8	59.8	60.7	60.7	61.6	62.1	62.5
IV 2000		48.2	51.3	53.1	55.8	55.8	58.7	60.7	61.6	62.1	64.3	64.3	65.2	65.2	66.1	66.5
IV 1800		48.2	51.3	53.1	55.8	55.8	58.7	60.7	61.6	62.1	64.3	64.3	65.2	65.2	66.1	66.5
IV 1500		48.2	51.3	53.1	55.8	55.8	58.7	60.7	61.6	62.1	64.3	64.3	65.2	65.2	66.1	66.5
IV 1200		49.1	52.7	57.1	62.1	62.1	64.3	64.3	64.3	66.5	66.5	67.4	67.4	68.3	68.8	69.2
IV 1000		49.1	52.7	57.1	62.1	62.1	64.3	64.3	64.3	66.5	66.5	67.4	67.4	68.3	68.8	69.2
IV 900		49.6	53.1	57.6	63.4	63.4	64.3	64.3	64.3	66.5	66.5	67.4	67.4	68.3	68.8	69.2
IV 800		49.6	53.1	57.6	63.4	63.4	64.3	64.3	64.3	66.5	66.5	67.4	67.4	68.3	68.8	69.2
IV 700		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 600		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 500		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 400		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 300		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 200		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 100		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5
IV 0		50.0	53.5	58.9	64.7	64.7	65.6	65.6	65.6	67.8	67.8	68.7	68.7	69.6	70.1	70.5

TOTAL NUMBER OF OBSERVATIONS

224

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

8AD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

65-0307

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0	
NO CEILING		22,5	22,7	23,9	24,3	24,5	25,5	25,9	25,9	26,8	26,8	27,5	27,9	28,6	29,1	29,3
≥ 20000		26,3	24,5	25,7	26,1	26,4	27,3	27,7	27,7	28,6	28,8	29,5	30,0	30,6	31,1	31,3
IV 18000		24,3	24,5	25,7	26,1	26,4	27,3	27,7	27,7	28,6	28,8	29,5	30,0	30,6	31,1	31,3
IV 16000		24,3	24,5	25,7	26,1	26,4	27,3	27,7	27,7	28,6	28,8	29,5	30,0	30,6	31,1	31,3
IV 14000		24,3	24,5	25,7	26,1	26,4	27,3	27,7	27,7	28,6	28,8	29,5	30,0	30,6	31,1	31,3
IV 12000		24,5	24,8	25,9	26,4	26,6	27,5	27,9	27,9	28,3	29,1	29,7	30,2	30,9	31,3	31,5
IV 10000		27,0	27,5	28,4	28,8	29,1	30,0	30,4	30,4	31,3	31,5	32,2	32,7	33,3	33,8	34,5
IV 9000		28,2	28,4	29,5	30,0	30,2	31,1	31,5	31,5	32,4	32,7	33,3	33,8	34,5	34,9	35,1
IV 8000		31,5	31,8	32,9	33,3	33,6	34,5	34,9	34,9	35,8	36,0	36,7	37,2	37,8	38,3	38,5
IV 7000		33,3	33,6	34,7	35,1	35,6	36,5	36,9	36,9	37,8	38,1	38,7	39,2	39,9	40,3	40,5
IV 6000		35,0	35,6	36,7	37,2	37,6	38,5	39,0	39,0	39,9	40,1	40,9	41,2	41,9	42,3	42,6
IV 5000		38,3	38,7	39,9	40,3	40,8	41,7	42,1	42,1	43,0	43,2	43,9	44,4	45,0	45,5	45,7
IV 4500		41,2	41,7	42,8	43,2	43,7	44,6	45,0	45,0	45,9	46,2	46,8	47,3	48,0	48,4	48,6
IV 4000		42,3	42,8	43,9	44,4	44,8	45,7	46,2	46,4	47,3	47,5	48,2	48,6	49,3	49,8	50,0
IV 3500		44,8	45,7	47,1	47,7	48,2	49,1	49,5	49,5	50,7	50,9	51,6	52,0	52,7	53,2	53,6
IV 3000		47,1	48,2	50,2	50,9	51,4	52,3	52,9	53,4	54,5	54,7	55,4	55,9	56,5	57,0	57,2
IV 2500		49,3	50,1	52,4	53,1	53,4	54,3	54,9	55,4	56,5	56,7	57,4	57,9	58,5	59,0	59,2
IV 2000		51,1	52,7	55,6	57,4	58,1	60,6	61,5	61,9	63,5	63,7	64,4	64,9	65,5	66,0	66,2
IV 1800		51,6	52,9	56,3	59,0	59,7	62,4	63,5	64,0	65,5	65,8	66,4	66,9	67,6	68,0	68,2
IV 1500		52,7	54,7	58,8	62,4	63,1	65,9	66,9	67,8	69,3	69,6	70,2	70,7	71,3	71,8	72,0
IV 1200		53,8	56,5	61,0	65,5	66,4	70,1	71,0	71,9	73,4	73,7	74,3	74,8	75,4	75,9	76,2
IV 1000		54,1	56,8	61,7	66,2	67,1	71,0	71,9	72,8	74,3	74,6	75,2	75,7	76,3	76,8	77,0
IV 900		54,3	57,0	61,9	66,4	67,3	71,2	72,1	73,0	74,5	74,8	75,4	75,9	76,5	77,0	77,2
IV 800		54,5	57,0	61,9	66,4	67,3	71,2	72,1	73,0	74,5	74,8	75,4	75,9	76,5	77,0	77,2
IV 700		54,5	57,7	62,6	67,1	68,0	72,0	72,9	73,8	75,3	75,6	76,2	76,7	77,3	77,8	78,0
IV 600		54,5	58,1	63,1	67,8	68,7	72,7	73,6	74,5	76,0	76,3	76,9	77,4	78,0	78,5	78,7
IV 500		54,5	58,1	63,3	68,0	68,9	72,9	73,8	74,7	76,2	76,5	77,1	77,6	78,2	78,7	78,9
IV 400		54,5	58,1	63,3	68,2	69,1	73,1	74,0	74,9	76,4	76,7	77,3	77,8	78,4	78,9	79,1
IV 300		54,5	58,1	63,3	68,2	69,1	73,1	74,0	74,9	76,4	76,7	77,3	77,8	78,4	78,9	79,1
IV 200		54,5	58,1	63,3	68,2	69,1	73,1	74,0	74,9	76,4	76,7	77,3	77,8	78,4	78,9	79,1
IV 100		54,5	58,1	63,3	68,2	69,1	73,1	74,0	74,9	76,4	76,7	77,3	77,8	78,4	78,9	79,1
IV 0		54,5	58,1	63,3	68,2	69,1	73,1	74,0	74,9	76,4	76,7	77,3	77,8	78,4	78,9	79,1

TOTAL NUMBER OF OBSERVATIONS 444

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

65=70  
YEAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1965-110  
NO. OBS.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0	
NO CEILING		24.4	26.5	27.7	28.3	28.7	29.4	29.6	29.6	30.2	30.2	30.2	30.2	30.4	30.4	30.4
≥ 20000		32.4	34.7	35.9	36.6	37.0	37.8	38.0	38.2	39.0	39.0	39.2	39.2	39.4	39.4	39.4
IV 18000		32.7	35.1	36.3	37.0	37.4	38.2	38.4	38.6	39.4	39.4	39.6	39.6	39.8	39.8	39.8
IV 16000		32.7	35.1	36.3	37.0	37.4	38.2	38.4	38.6	39.4	39.4	39.6	39.6	39.8	39.8	39.8
IV 14000		32.7	35.1	36.3	37.0	37.4	38.2	38.4	38.6	39.4	39.4	39.6	39.6	39.8	39.8	39.8
IV 12000		32.7	35.1	36.3	37.0	37.4	38.2	38.4	38.6	39.4	39.4	39.6	39.6	39.8	39.8	39.8
IV 10000		33.9	36.3	37.4	38.2	38.6	39.4	40.0	40.2	40.9	40.9	41.1	41.1	41.3	41.3	41.3
IV 9000		35.1	37.4	38.6	39.4	39.8	40.9	41.1	41.3	42.1	42.1	42.3	42.3	42.5	42.5	42.5
IV 8000		39.2	41.9	43.1	44.1	44.4	45.6	45.8	46.0	46.8	46.8	47.0	47.0	47.2	47.2	47.4
IV 7000		41.3	46.4	45.6	46.6	46.6	47.2	48.3	48.5	48.7	49.5	49.5	49.7	49.7	49.9	50.1
IV 6000		42.7	49.8	47.0	48.0	48.3	49.7	49.9	50.1	50.9	50.9	51.1	51.1	51.3	51.3	51.5
IV 5000		44.8	48.1	49.3	50.7	51.3	52.6	52.6	52.8	53.6	53.6	53.8	53.8	54.0	54.0	54.2
IV 4500		46.2	49.5	50.7	52.0	52.6	53.8	54.0	54.2	55.0	55.0	55.2	55.2	55.4	55.4	55.6
IV 4000		48.7	52.0	53.4	54.8	55.4	56.7	56.9	57.1	57.9	57.9	58.1	58.1	58.3	58.3	58.5
IV 3500		49.5	53.0	54.4	55.8	56.4	57.7	57.9	58.1	59.1	59.1	59.3	59.3	59.5	59.5	59.8
IV 3000		50.9	54.6	56.1	57.5	58.1	59.4	60.0	60.2	61.4	61.4	61.6	61.6	62.0	62.2	62.4
IV 2500		54.6	58.5	60.8	62.4	63.0	64.7	65.1	65.3	67.3	67.3	67.6	67.6	68.0	68.2	68.4
IV 2000		55.6	59.5	62.0	63.9	64.7	66.7	67.4	68.0	70.4	70.6	70.8	70.8	71.2	71.3	71.5
IV 1800		56.5	60.4	63.2	65.1	65.8	68.4	69.4	70.2	72.5	72.5	73.1	73.1	73.7	73.9	74.1
IV 1500		57.5	62.4	65.1	67.4	68.4	71.2	72.5	73.3	75.4	75.4	76.4	76.4	77.2	77.2	77.4
IV 1200		59.5	64.7	67.6	70.0	71.2	74.3	75.4	76.4	81.1	81.1	82.1	81.9	81.9	82.3	82.5
IV 1000		59.8	65.1	68.6	71.2	72.5	75.8	77.0	78.0	83.2	83.2	84.2	84.2	84.6	84.8	85.0
IV 900		59.8	65.1	68.8	71.3	72.9	76.4	78.0	79.8	85.2	85.2	86.0	86.4	86.4	86.7	86.9
IV 800		59.8	65.1	69.0	71.5	73.1	76.8	78.4	79.9	86.2	86.2	87.7	88.1	88.1	88.3	88.7
IV 700		59.8	65.1	69.2	71.7	73.3	77.0	78.6	80.3	87.7	87.7	90.1	90.4	90.4	90.8	91.0
IV 600		59.8	65.5	69.6	72.1	73.7	77.4	79.1	80.9	89.1	89.1	92.2	92.8	93.2	93.6	93.8
IV 500		59.8	65.5	69.8	72.3	73.9	77.6	79.3	81.3	89.9	89.9	93.0	94.0	94.5	94.9	95.1
IV 400		59.8	65.5	69.8	72.3	73.9	77.6	79.3	81.3	90.3	90.3	94.0	95.1	96.3	96.7	96.9
IV 300		59.8	65.5	69.8	72.3	73.9	77.6	79.3	81.3	90.4	90.4	94.2	96.1	97.3	97.7	98.2
IV 200		59.8	65.5	69.8	72.3	73.9	77.6	79.3	81.3	90.4	90.4	94.2	96.1	97.3	98.2	98.8
IV 100		59.8	65.5	69.8	72.3	73.9	77.6	79.3	81.3	90.4	90.4	94.2	96.1	97.3	98.2	99.0
IV 0		59.8	65.5	69.8	72.3	73.9	77.6	79.3	81.3	90.4	90.4	94.2	96.1	97.3	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS

513

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAB TULZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-1400  
MONTH  
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0
NO CEILING															
IV 20000	29,0	30,6	32,6	33,8	34,0	34,6	34,8	34,8	35,4	35,4	35,4	35,4	35,4	35,4	35,4
IV 18000	37,8	39,4	41,6	42,8	43,0	43,8	44,0	44,2	44,8	44,8	44,8	44,8	44,8	44,8	44,8
IV 16000	38,0	39,6	41,6	42,8	43,2	44,0	44,2	44,4	45,0	45,0	45,0	45,0	45,0	45,0	45,0
IV 14000	38,2	39,8	41,8	43,0	43,4	44,2	44,4	44,6	45,2	45,2	45,2	45,2	45,2	45,2	45,2
IV 12000	38,4	40,0	42,0	43,2	43,6	44,4	44,6	44,8	45,4	45,4	45,4	45,4	45,4	45,4	45,4
IV 10000	40,2	41,8	43,8	45,0	45,4	46,2	46,4	46,6	47,2	47,2	47,2	47,2	47,2	47,2	47,2
IV 9000	42,4	44,0	46,0	47,2	47,6	48,4	48,6	48,8	49,4	49,4	49,4	49,4	49,4	49,4	49,4
IV 8000	43,0	44,6	46,6	47,8	48,2	49,0	49,2	49,4	50,0	50,0	50,0	50,0	50,0	50,0	50,0
IV 7000	48,0	49,6	51,6	53,0	53,4	54,2	54,4	54,6	55,2	55,2	55,2	55,2	55,2	55,2	55,2
IV 6000	49,0	51,2	53,2	54,6	55,0	55,8	56,0	56,2	56,8	56,8	56,8	56,8	56,8	56,8	56,8
IV 5000	52,0	53,6	55,6	57,4	57,8	58,6	58,8	59,0	59,6	59,6	59,6	59,6	59,6	59,6	59,6
IV 4500	53,0	54,6	57,0	58,8	59,2	60,0	60,2	60,4	61,0	61,0	61,0	61,0	61,0	61,0	61,0
IV 4000	53,2	54,8	57,2	59,0	59,4	60,2	60,4	60,6	61,2	61,2	61,2	61,2	61,2	61,2	61,2
IV 3500	58,0	59,6	62,0	64,0	64,4	65,2	65,4	65,6	66,2	66,2	66,2	66,2	66,2	66,2	66,2
IV 3000	58,8	59,6	62,0	64,0	64,4	65,2	65,4	65,6	66,2	66,2	66,2	66,2	66,2	66,2	66,2
IV 2500	59,2	62,4	65,2	67,4	68,0	68,8	69,0	69,2	70,4	70,4	70,4	70,4	70,4	70,4	70,4
IV 2000	60,8	64,4	67,8	70,2	70,8	71,8	72,0	72,2	73,4	73,4	73,4	73,4	73,4	73,4	73,4
IV 1800	61,2	64,8	68,0	71,4	72,0	73,4	73,6	74,0	75,4	75,4	75,4	75,4	75,4	75,4	75,4
IV 1500	62,0	66,2	70,0	72,8	73,6	75,0	75,8	76,2	77,8	77,8	77,8	77,8	77,8	77,8	77,8
IV 1200	64,4	68,8	73,4	76,4	77,6	79,4	80,8	81,8	83,8	83,8	83,8	83,8	83,8	83,8	83,8
IV 1000	64,8	69,2	74,0	77,2	78,6	80,6	82,2	83,2	85,8	85,8	85,8	85,8	85,8	85,8	85,8
IV 900	64,8	69,2	74,0	77,2	78,6	81,0	83,0	84,2	87,2	87,2	87,2	87,2	87,2	87,2	87,2
IV 800	64,8	69,2	74,0	77,2	78,6	81,0	83,0	84,2	87,2	87,2	87,2	87,2	87,2	87,2	87,2
IV 700	64,8	69,2	74,0	77,2	78,6	81,0	83,0	84,2	87,2	87,2	87,2	87,2	87,2	87,2	87,2
IV 600	65,4	69,6	75,0	78,6	80,4	82,4	85,4	86,8	91,6	91,6	91,6	91,6	91,6	91,6	91,6
IV 500	65,4	69,6	75,0	78,6	80,4	82,4	85,4	87,2	92,8	92,8	92,8	92,8	92,8	92,8	92,8
IV 400	65,4	69,6	75,0	78,6	80,4	82,4	85,4	87,2	92,8	92,8	92,8	92,8	92,8	92,8	92,8
IV 300	65,4	69,6	75,0	78,6	80,4	82,4	85,4	87,2	92,8	92,8	92,8	92,8	92,8	92,8	92,8
IV 200	65,4	69,6	75,0	78,6	80,4	82,4	85,4	87,2	92,8	92,8	92,8	92,8	92,8	92,8	92,8
IV 100	65,4	69,6	75,0	78,6	80,4	82,4	85,4	87,2	92,8	92,8	92,8	92,8	92,8	92,8	92,8
IV 0	65,4	69,6	75,0	78,6	80,4	82,4	85,4	87,2	92,8	92,8	92,8	92,8	92,8	92,8	92,8

TOTAL NUMBER OF OBSERVATIONS 500

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAP TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

15-17  
 HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0
NO CEILING															
IV 20000	29,5	31,1	33,9	34,3	34,3	34,6	34,8	34,8	34,8	34,8	34,8	34,8	34,8	34,8	34,8
IV 18000	33,5	35,2	38,0	38,6	39,2	39,4	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6
IV 16000	33,5	35,2	38,0	38,6	39,2	39,4	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6
IV 14000	33,5	35,2	38,0	38,6	39,2	39,4	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6
IV 12000	33,5	35,2	38,0	38,6	39,2	39,4	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6	39,6
IV 10000	35,2	37,2	40,0	40,7	41,3	41,5	41,7	41,7	41,7	41,7	41,7	41,7	41,7	41,7	41,7
IV 9000	36,4	38,4	41,3	41,9	42,5	42,7	42,9	42,9	42,9	42,9	42,9	42,9	42,9	42,9	42,9
IV 8000	39,0	41,1	43,9	44,7	45,3	45,5	45,7	45,7	45,7	45,7	45,7	45,7	45,7	45,7	45,7
IV 7000	42,1	44,1	47,0	47,8	48,4	48,6	48,8	48,8	48,8	48,8	48,8	48,8	48,8	48,8	48,8
IV 6000	44,3	46,3	49,4	50,6	51,2	51,4	51,6	51,6	51,6	51,6	51,6	51,6	51,6	51,6	51,6
IV 5000	45,7	47,8	50,6	51,8	52,4	52,6	52,8	52,8	52,8	52,8	52,8	52,8	52,8	52,8	53,0
IV 4500	47,0	49,0	51,8	53,0	53,7	53,9	54,1	54,1	54,1	54,1	54,1	54,1	54,1	54,1	54,3
IV 4000	48,4	50,6	53,7	54,9	55,5	55,7	56,1	56,3	56,3	56,3	56,3	56,3	56,3	56,3	56,5
IV 3500	49,6	52,0	55,1	56,3	56,9	57,3	57,5	57,7	57,7	57,7	57,7	57,7	57,7	57,7	57,9
IV 3000	51,2	54,1	57,7	59,3	60,0	60,4	60,6	60,8	60,8	60,8	60,8	60,8	60,8	60,8	61,0
IV 2500	53,9	57,3	61,2	62,8	63,4	64,2	64,6	64,8	64,8	64,8	64,8	64,8	64,8	64,8	65,7
IV 2000	56,3	60,6	64,8	66,5	67,1	68,1	68,7	69,1	69,3	69,3	69,3	69,3	69,3	69,3	69,7
IV 1800	58,7	63,4	67,7	69,9	70,5	71,5	72,2	72,6	73,0	73,0	73,0	73,0	73,0	73,0	73,2
IV 1500	60,0	65,2	70,5	72,8	73,8	75,4	76,2	76,6	77,0	77,0	77,0	77,0	77,0	77,0	77,2
IV 1200	62,0	67,3	72,6	75,6	76,0	77,9	78,3	78,3	78,3	78,3	78,3	78,3	78,3	78,3	78,7
IV 1000	62,8	68,3	73,6	76,6	78,0	81,5	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,8
IV 900	62,8	68,3	73,6	76,6	78,3	81,5	83,7	84,8	85,4	85,4	85,4	85,4	85,4	85,4	85,8
IV 800	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,0	86,6	86,6	86,6	86,6	86,6	86,6	87,6
IV 700	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 600	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 500	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 400	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 300	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 200	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 100	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6
IV 0	62,8	68,3	73,6	76,6	78,3	81,5	83,9	85,2	86,0	86,0	86,0	86,0	86,0	86,0	87,6

TOTAL NUMBER OF OBSERVATIONS

492



1

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197

BAF TOLZ GERMANY AAF

66-70

STATION

STATION NAME

YEARS

MONTH

1-00-2-00

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0	
NO CEILING																	
IV 20000	24.8	26.0	28.2	29.3	29.9	30.7	30.7	31.3	31.3	31.3	31.6	31.6	31.8	32.2	32.7		
IV 18000	27.1	28.8	31.0	32.1	32.7	33.5	33.5	34.1	34.1	34.1	34.4	34.4	34.6	34.9	35.5		
IV 16000	27.1	28.8	31.0	32.1	32.7	33.5	33.5	34.1	34.1	34.1	34.4	34.4	34.6	34.9	35.5		
IV 14000	27.1	28.8	31.0	32.1	32.7	33.5	33.5	34.1	34.1	34.1	34.4	34.4	34.6	34.9	35.5		
IV 12000	27.1	28.8	31.0	32.1	32.7	33.5	33.5	34.1	34.1	34.1	34.4	34.4	34.6	34.9	35.5		
IV 10000	28.5	30.2	33.0	34.4	34.9	35.8	35.8	36.3	36.3	36.3	36.6	36.6	36.9	37.2	37.7		
IV 9000	29.1	30.7	33.5	34.9	35.5	36.3	36.3	36.9	36.9	36.9	37.2	37.2	37.4	37.7	38.3		
IV 8000	29.9	31.6	34.4	35.8	36.3	37.2	37.2	37.7	37.7	37.7	38.0	38.0	38.3	38.5	39.1		
IV 7000	32.4	34.1	36.9	38.3	38.8	39.7	39.7	40.2	40.2	40.2	40.5	40.5	40.8	41.1	41.6		
IV 6000	34.4	36.3	39.9	41.3	41.9	43.0	43.0	43.6	43.6	43.6	43.9	43.9	44.2	44.4	45.0		
IV 5000	34.4	36.6	40.2	41.6	42.2	43.9	43.9	44.4	44.4	44.4	44.7	44.7	45.0	45.3	46.1		
IV 4500	35.2	37.4	41.3	42.7	43.3	45.0	45.0	45.5	45.5	45.5	45.8	45.8	46.1	46.4	47.2		
IV 4000	37.2	39.4	43.3	44.7	45.3	47.2	47.2	48.0	48.0	48.0	48.3	48.3	48.6	48.9	49.7		
IV 3500	39.1	41.9	45.8	47.2	47.8	49.7	49.7	50.5	50.5	50.5	50.8	50.8	51.1	51.4	52.3		
IV 3000	41.1	43.9	47.8	49.4	50.0	52.2	52.2	53.4	53.4	53.4	53.9	53.9	54.2	54.5	55.3		
IV 2500	45.3	48.0	52.2	54.5	55.0	58.9	58.9	60.1	60.1	60.1	60.9	60.9	61.2	61.5	62.3		
IV 2000	46.6	50.0	54.7	57.5	58.1	62.3	62.3	63.4	63.4	63.4	64.0	64.0	64.2	64.5	64.8		
IV 1800	46.6	50.0	54.7	57.5	58.1	63.1	63.1	64.2	64.2	64.2	64.8	64.8	65.1	65.1	65.6		
IV 1500	48.6	52.2	57.8	61.7	62.3	68.2	68.2	69.3	69.3	69.3	70.4	70.4	70.7	70.9	71.2		
IV 1200	49.7	53.6	59.2	64.0	63.6	72.9	72.9	74.0	74.0	74.0	75.3	75.3	75.6	75.8	77.1		
IV 1000	50.0	53.6	59.5	64.2	63.6	73.2	73.2	75.7	75.7	75.7	77.9	77.9	78.2	78.5	79.9		
IV 900	50.0	53.6	59.8	64.3	63.2	74.3	74.3	77.1	77.1	77.1	79.4	79.4	80.2	80.2	81.6		
IV 800	50.0	53.6	59.8	65.1	66.5	75.4	75.4	78.2	78.2	78.2	80.7	80.7	81.6	82.4	83.8		
IV 700	50.0	53.6	59.8	65.1	66.5	75.4	75.4	78.2	78.2	78.2	81.1	81.1	82.2	83.2	84.7		
IV 600	50.0	53.6	59.8	65.2	66.5	75.4	75.4	78.2	78.2	78.2	81.1	81.1	82.2	83.2	84.7		
IV 500	50.0	53.6	59.8	65.4	66.8	75.7	75.7	78.5	78.5	78.5	81.4	81.4	82.7	83.7	85.2		
IV 400	50.0	53.6	59.8	65.4	66.8	76.3	76.3	79.1	79.1	79.1	82.0	82.0	83.4	84.4	86.0		
IV 300	50.0	53.6	59.8	65.4	66.8	76.3	76.3	79.1	79.1	79.1	82.0	82.0	83.4	84.4	86.0		
IV 200	50.0	53.6	59.8	65.4	66.8	76.3	76.3	79.1	79.1	79.1	82.0	82.0	83.4	84.4	86.0		
IV 100	50.0	53.6	59.8	65.4	66.8	76.3	76.3	79.1	79.1	79.1	82.0	82.0	83.4	84.4	86.0		
IV 0	50.0	53.6	59.8	65.4	66.8	76.3	76.3	79.1	79.1	79.1	82.0	82.0	83.4	84.4	86.0		

TOTAL NUMBER OF OBSERVATIONS 358

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

67-68

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

710-230  
 HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/16	≥ ¼	≥ 0
NO CEILING	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 20000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 18000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 16000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 14000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 12000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 10000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 9000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 8000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 7000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 6000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 5000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 4500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 4000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 3500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 3000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 2500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 2000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 1800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 1500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 1200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 1000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 900	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 700	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 600	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 400	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 300	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
IV 0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

TOTAL NUMBER OF OBSERVATIONS 6

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAF TOLZ GERMANY AAF

67

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

000-000  
 HOURS LS

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 1/4	≥ 0
NO CEILING	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 20000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 18000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 16000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 14000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 12000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 10000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 9000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 8000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 7000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 STATION BAD TOLZ GERMANIA AAF

56-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

30-0000

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3		
NO CEILING		26.3	27.2	28.4	29.6	29.6	30.0	30.0	30.0	30.5	30.5	30.5	30.5	30.9	31.7	32.4
≥ 20000		28.4	29.6	31.3	32.5	32.5	32.9	32.9	32.9	33.3	33.3	33.3	33.3	33.7	34.6	35.4
IV 18000		28.4	29.6	31.3	32.5	32.5	32.9	32.9	32.9	33.3	33.3	33.3	33.3	33.7	34.6	35.4
IV 16000		28.4	29.6	31.3	32.5	32.5	32.9	32.9	32.9	33.3	33.3	33.3	33.3	33.7	34.6	35.4
IV 14000		28.4	29.6	31.3	32.5	32.5	32.9	32.9	32.9	33.3	33.3	33.3	33.3	33.7	34.6	35.4
IV 12000		28.4	29.6	31.3	32.5	32.5	32.9	32.9	32.9	33.3	33.3	33.3	33.3	33.7	34.6	35.4
IV 10000		29.2	31.3	31.9	34.2	34.2	34.6	34.6	34.6	35.0	35.0	35.0	35.0	35.4	36.2	37.0
IV 9000		31.7	32.7	35.4	36.6	36.6	37.0	37.0	37.0	37.4	37.4	37.4	37.4	37.9	38.7	39.5
IV 8000		34.6	36.6	38.3	39.5	39.5	39.9	39.9	39.9	40.3	40.3	40.3	40.3	40.7	41.6	42.4
IV 7000		35.8	37.9	40.3	41.6	41.6	42.0	42.4	42.4	42.8	42.8	42.8	42.8	43.2	44.0	44.9
IV 6000		36.2	38.3	40.7	42.0	42.0	42.4	42.8	42.8	43.2	43.2	43.2	43.2	43.6	44.4	45.2
IV 5000		39.9	42.4	44.9	46.1	46.1	46.5	46.9	46.9	47.3	47.3	47.3	47.3	47.7	48.6	49.4
IV 4500		42.8	45.3	47.7	49.0	49.0	49.4	49.8	49.8	50.2	50.2	50.2	50.2	50.6	51.4	52.2
IV 4000		45.3	47.7	50.2	51.4	51.4	51.9	52.3	52.3	52.7	52.7	52.7	52.7	53.1	53.9	54.7
IV 3500		48.6	51.0	53.5	54.7	54.7	55.1	55.6	55.6	56.0	56.0	56.0	56.0	56.4	57.2	58.0
IV 3000		51.0	53.5	56.0	57.2	57.2	57.6	58.0	58.0	58.4	58.4	58.4	58.4	58.8	59.7	60.5
IV 2500		58.0	58.4	59.9	62.1	62.1	62.5	62.9	62.9	64.2	64.2	64.2	64.2	64.6	65.4	66.2
IV 2000		58.0	60.5	63.0	64.2	64.2	64.6	65.0	65.0	66.3	66.3	66.3	66.3	66.7	67.1	67.9
IV 1800		60.1	62.6	65.0	66.3	66.3	66.7	67.1	67.1	68.4	68.4	68.4	68.4	68.8	69.7	70.5
IV 1500		60.9	63.8	66.3	67.5	67.5	70.0	70.4	70.4	71.6	71.6	71.6	71.6	72.0	72.8	73.7
IV 1200		62.1	65.0	67.9	69.1	69.1	72.4	72.8	72.8	74.1	74.1	74.1	74.1	74.5	75.3	76.2
IV 1000		62.1	65.0	67.9	69.5	69.5	72.8	73.2	73.2	74.5	74.5	74.5	74.5	74.9	75.7	76.6
IV 900		62.1	65.0	67.9	69.5	69.5	72.8	73.2	73.2	74.5	74.5	74.5	74.5	74.9	75.7	76.6
IV 800		62.1	65.0	67.9	69.5	69.5	72.8	73.2	73.2	74.5	74.5	74.5	74.5	74.9	75.7	76.6
IV 700		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
IV 600		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
IV 500		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
IV 400		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
IV 300		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
IV 200		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
IV 100		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0
0		62.1	65.0	67.9	70.0	70.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	75.3	76.1	77.0

TOTAL NUMBER OF OBSERVATIONS 243

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

84197 6AD TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1670-0101

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	0			
NO CEILING		25.3	26.3	26.7	27.4	27.4	27.4	27.7	27.7	28.1	28.1	28.1	28.1	28.4	28.6	29.4
≥ 20000		29.3	30.9	31.6	32.3	32.3	32.3	32.6	32.6	33.0	33.0	33.0	33.0	33.3	33.4	34.2
IV 18000		29.3	30.9	31.6	32.3	32.3	32.3	32.6	32.6	33.0	33.0	33.0	33.0	33.3	33.4	34.2
IV 16000		29.3	30.9	31.6	32.3	32.3	32.3	32.6	32.6	33.0	33.0	33.0	33.0	33.3	33.4	34.2
IV 14000		29.8	31.4	32.1	32.8	32.8	32.8	33.0	33.0	33.5	33.5	33.5	33.5	33.7	34.0	34.7
IV 12000		30.2	31.9	32.6	33.3	33.3	33.3	33.5	33.5	34.0	34.0	34.0	34.0	34.2	34.4	35.1
IV 10000		32.1	33.7	34.4	35.1	35.1	35.1	35.3	35.3	35.8	35.8	35.8	35.8	36.0	36.3	37.1
IV 9000		33.0	34.7	35.4	36.0	36.0	36.0	36.2	36.2	36.7	36.7	36.7	36.7	37.0	37.2	37.9
IV 8000		37.2	38.8	39.1	40.2	40.2	40.2	40.5	40.5	40.9	40.9	40.9	40.9	41.2	41.4	42.1
IV 7000		39.5	41.6	42.3	43.0	43.0	43.0	43.3	43.3	43.7	43.7	43.7	43.7	44.0	44.2	44.9
IV 6000		42.1	44.4	45.1	45.8	45.8	45.8	46.0	46.0	46.5	46.5	46.5	46.5	46.7	47.0	47.7
IV 5000		45.1	47.4	48.1	48.8	48.8	48.8	49.1	49.1	49.5	49.5	49.5	49.5	49.8	50.0	50.7
IV 4500		48.6	51.2	52.1	52.8	52.8	52.8	53.0	53.0	53.5	53.5	53.5	53.5	53.7	54.0	54.7
IV 4000		50.7	53.3	54.2	54.9	54.9	54.9	55.1	55.1	55.6	55.6	55.6	55.6	55.8	56.0	56.7
IV 3500		54.4	57.0	57.9	58.6	58.6	58.6	58.8	58.8	59.3	59.3	59.3	59.3	59.5	59.8	60.5
IV 3000		58.8	61.9	62.0	63.7	63.7	63.7	64.0	64.0	64.4	64.4	64.4	64.4	64.7	64.9	65.6
IV 2500		62.8	66.3	67.1	68.6	68.6	68.6	69.1	69.1	69.5	69.5	69.5	69.5	70.2	70.7	71.4
IV 2000		67.4	70.9	70.7	71.6	71.6	71.6	72.1	72.1	72.4	72.4	72.4	72.4	73.0	73.4	74.0
IV 1800		68.7	72.6	72.6	73.3	73.3	73.3	73.7	73.7	74.1	74.1	74.1	74.1	74.9	75.3	76.0
IV 1500		66.7	70.6	70.6	71.3	71.3	71.3	71.7	71.7	72.1	72.1	72.1	72.1	72.9	73.3	74.0
IV 1200		65.2	69.1	69.1	70.0	70.0	70.0	70.4	70.4	70.8	70.8	70.8	70.8	71.6	72.0	72.7
IV 1000		63.7	67.6	67.6	68.5	68.5	68.5	68.9	68.9	69.3	69.3	69.3	69.3	70.1	70.5	71.2
IV 900		62.2	66.1	66.1	67.0	67.0	67.0	67.4	67.4	67.8	67.8	67.8	67.8	68.6	69.0	69.7
IV 800		60.7	64.6	64.6	65.5	65.5	65.5	65.9	65.9	66.3	66.3	66.3	66.3	67.1	67.5	68.2
IV 700		59.2	63.1	63.1	64.0	64.0	64.0	64.4	64.4	64.8	64.8	64.8	64.8	65.6	66.0	66.7
IV 600		57.7	61.6	61.6	62.5	62.5	62.5	62.9	62.9	63.3	63.3	63.3	63.3	64.1	64.5	65.2
IV 500		56.2	60.1	60.1	61.0	61.0	61.0	61.4	61.4	61.8	61.8	61.8	61.8	62.6	63.0	63.7
IV 400		54.7	58.6	58.6	59.5	59.5	59.5	59.9	59.9	60.3	60.3	60.3	60.3	61.1	61.5	62.2
IV 300		53.2	57.1	57.1	58.0	58.0	58.0	58.4	58.4	58.8	58.8	58.8	58.8	59.6	60.0	60.7
IV 200		51.7	55.6	55.6	56.5	56.5	56.5	56.9	56.9	57.3	57.3	57.3	57.3	58.1	58.5	59.2
IV 100		50.2	54.1	54.1	55.0	55.0	55.0	55.4	55.4	55.8	55.8	55.8	55.8	56.6	57.0	57.7
IV 0		48.7	52.6	52.6	53.5	53.5	53.5	53.9	53.9	54.3	54.3	54.3	54.3	55.1	55.5	56.2

TOTAL NUMBER OF OBSERVATIONS 430

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

05-70  
DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .00
NO CEILING ≥ 20000	26.5	26.7	27.1	27.1	27.3	27.7	27.7	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 18000	32.9	33.3	34.2	34.2	34.4	34.8	34.8	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 16000	32.9	33.3	34.2	34.2	34.4	34.8	34.8	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 14000	33.3	33.6	34.6	34.6	34.8	35.3	35.3	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥ 12000	34.0	34.4	35.3	35.3	35.5	35.9	35.9	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 10000	35.7	36.1	37.0	37.0	37.2	37.6	37.6	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 9000	36.3	36.8	37.6	37.6	37.8	38.3	38.3	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 8000	42.6	43.0	44.1	44.3	44.5	44.9	44.9	45.4	45.8	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 7000	46.2	46.7	47.7	48.0	48.2	48.8	48.8	49.2	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 6000	48.0	48.4	49.7	49.9	50.1	50.8	50.8	51.2	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 5000	49.5	49.9	51.4	51.6	51.8	52.5	52.5	52.9	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 4500	50.8	51.2	52.9	53.1	53.3	54.0	54.0	54.4	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 4000	54.4	54.8	57.2	57.4	57.6	58.3	58.3	58.9	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 3500	57.6	58.1	60.6	61.1	61.3	62.2	62.2	63.0	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 3000	62.2	62.8	65.8	66.2	66.5	67.3	67.3	68.6	69.0	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 2500	66.5	67.3	71.0	71.4	71.8	72.9	73.0	74.4	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 2000	66.9	68.2	72.0	72.7	73.1	74.4	75.1	76.1	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 1800	67.1	68.4	72.3	72.9	73.3	74.6	75.3	77.0	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 1500	68.6	70.3	74.6	75.7	76.1	78.3	78.3	80.4	81.3	82.4	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1200	69.2	71.0	75.7	77.2	77.6	80.0	82.6	83.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 1000	69.7	71.6	77.0	78.7	79.1	81.5	84.5	85.8	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 900	69.7	71.6	77.0	78.7	79.1	81.5	84.5	85.8	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 800	69.9	71.8	77.2	78.9	79.6	81.9	85.4	86.9	89.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 700	70.5	72.3	77.8	79.6	80.4	82.6	86.2	88.0	91.4	93.1	93.3	93.3	93.3	93.3	93.3	93.3
≥ 600	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.2	91.8	94.2	94.4	94.4	94.4	94.4	94.4	94.4
≥ 500	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.2	92.3	94.8	95.3	95.3	95.3	95.3	95.3	95.3
≥ 400	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.4	93.3	95.9	96.8	96.8	96.8	96.8	96.8	96.8
≥ 300	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.4	93.3	96.3	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.4	93.3	96.3	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.4	93.3	96.3	97.4	97.4	97.4	97.4	97.4	97.4
≥ 0	70.8	72.7	78.1	79.8	80.4	82.8	86.5	88.4	93.3	96.3	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 463

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERNANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

120-14

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .5	
NO CEILING														
≥ 20000	26.4	27.1	28.1	28.6	29.0	29.7	30.1	30.3	30.3	30.3	30.3	30.3	30.3	30.3
18000	33.8	34.4	35.5	35.9	36.4	37.0	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7
16000	33.8	34.6	35.7	36.1	36.6	37.2	37.7	37.9	37.9	37.9	37.9	37.9	37.9	37.9
14000	54.0	34.3	35.9	36.4	36.8	37.4	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1
12000	34.4	35.3	36.4	36.8	37.2	37.9	38.3	38.5	38.5	38.5	38.5	38.5	38.5	38.5
10000	36.6	37.4	38.5	38.7	39.2	39.8	40.3	40.5	40.5	40.5	40.5	40.5	40.5	40.5
9000	44.2	45.2	46.3	47.0	47.4	48.1	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7
8000	47.4	48.5	49.6	50.2	50.6	51.3	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9
7000	48.7	50.2	51.3	51.9	52.4	53.0	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7
6000	50.9	52.4	53.5	54.1	54.5	55.2	55.6	55.8	55.8	55.8	55.8	55.8	55.8	55.8
5000	52.6	54.1	55.2	55.8	56.3	56.9	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6
4500	53.9	55.6	56.7	57.4	57.8	58.4	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1
4000	57.8	60.0	61.3	61.9	62.3	63.0	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9
3500	59.3	62.3	64.3	64.9	65.4	66.0	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1
3000	66.5	70.3	72.7	73.4	74.2	75.2	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2500	67.2	71.4	74.2	75.1	76.0	77.1	78.1	78.4	78.6	78.6	78.6	78.6	78.6	78.6
2000	68.2	72.3	75.1	76.0	76.8	77.9	79.0	79.2	79.4	79.4	79.4	79.4	79.4	79.4
1800	69.0	73.4	76.4	77.7	78.6	80.3	81.8	82.0	82.3	82.3	82.3	82.3	82.3	82.3
1500	71.2	75.8	79.2	81.0	82.0	84.6	86.6	86.8	87.2	87.2	87.2	87.2	87.2	87.2
1200	71.2	75.8	79.2	81.0	82.0	84.6	86.6	86.8	87.2	87.2	87.2	87.2	87.2	87.2
1000	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
900	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
800	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
700	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
600	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
500	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
400	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
300	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
200	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
100	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4
0	71.4	76.0	79.4	81.8	82.7	85.9	87.7	88.1	89.3	89.4	89.4	89.4	89.4	89.4

TOTAL NUMBER OF OBSERVATIONS 462

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0	≥ 0
NO CEILING	27.1	28.0	29.7	29.7	29.9	30.2	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
IV 20000	35.8	36.7	38.4	38.4	39.0	39.2	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
IV 18000	36.0	36.9	38.6	38.6	39.3	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 16000	36.2	37.1	38.8	38.8	39.5	39.7	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
IV 14000	36.2	37.1	38.8	38.8	39.5	39.7	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
IV 12000	36.7	37.5	39.3	39.3	39.9	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
IV 10000	37.7	38.6	40.6	40.6	41.2	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 9000	39.7	40.6	42.5	42.5	43.2	43.4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IV 8000	43.4	44.3	46.9	46.9	47.5	47.7	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IV 7000	47.1	48.2	50.5	50.5	51.2	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 6000	48.8	49.9	52.5	52.5	53.1	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 5000	50.5	51.8	54.4	54.4	55.1	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
IV 4500	51.6	52.9	55.5	55.5	56.2	56.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
IV 4000	53.8	55.1	57.9	57.9	58.6	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 3500	56.4	58.6	61.4	61.4	62.0	62.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 3000	58.4	60.7	63.8	64.0	64.6	64.8	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 2500	64.0	66.8	70.2	70.5	71.4	72.0	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 2000	65.3	68.8	72.2	72.7	73.8	74.8	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
IV 1800	66.8	70.5	74.0	74.4	75.5	76.5	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
IV 1500	64.6	73.5	77.0	77.7	79.2	81.1	81.3	81.6	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 1200	70.9	75.1	79.0	79.6	81.1	83.1	84.2	84.4	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IV 1000	71.1	75.9	80.5	81.6	83.7	86.4	87.6	87.9	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 900	71.1	75.9	80.5	81.5	83.7	87.0	88.1	88.3	90.0	90.2	90.5	90.5	90.5	90.5	90.5	90.5
IV 800	71.1	75.9	80.5	81.8	83.9	87.6	88.9	89.6	90.9	91.3	91.5	91.5	91.5	91.5	91.5	91.5
IV 700	71.1	75.9	80.5	81.8	83.9	87.6	88.9	89.6	91.3	91.7	92.0	92.2	92.4	92.4	92.4	92.4
IV 600	71.1	75.9	80.5	82.2	84.4	88.1	90.0	91.3	93.7	94.6	94.8	95.0	95.0	95.0	95.0	95.0
IV 500	71.1	75.9	80.5	82.2	84.4	88.1	90.5	92.2	94.8	95.7	96.1	96.3	96.3	96.3	96.3	96.3
IV 400	71.1	75.9	80.5	82.2	84.4	88.1	90.5	92.2	94.8	96.5	97.0	97.2	97.2	97.2	97.4	97.4
IV 300	71.1	75.9	80.5	82.2	84.4	88.1	90.5	92.2	94.8	96.5	97.6	98.0	98.0	98.9	99.1	99.1
IV 200	71.1	75.9	80.5	82.2	84.4	88.1	90.5	92.2	94.8	96.5	97.8	98.5	98.5	99.3	100.0	100.0
IV 100	71.1	75.9	80.5	82.2	84.4	88.1	90.5	92.2	94.8	96.5	97.8	98.5	98.5	99.3	100.0	100.0
IV 0	71.1	75.9	80.5	82.2	84.4	88.1	90.5	92.2	94.8	96.5	97.8	98.5	98.5	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 461



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

66=70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

14.5=2.0  
HOURS PER YEAR

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	28.8	30.2	33.2	33.2	33.2	33.8	33.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.1	34.1
IV 18000	32.7	34.4	37.4	37.4	37.4	38.3	38.3	38.3	38.3	38.3	38.5	38.5	38.5	38.5	38.5	38.5
IV 16000	32.7	34.4	37.4	37.4	37.4	38.3	38.3	38.3	38.3	38.3	38.5	38.5	38.5	38.5	38.5	38.5
IV 14000	32.7	34.4	37.4	37.4	37.4	38.3	38.3	38.3	38.3	38.3	38.5	38.5	38.5	38.5	38.5	38.5
IV 12000	34.6	36.3	39.4	39.4	39.4	40.2	40.2	40.2	40.2	40.2	40.5	40.5	40.5	40.5	40.5	40.5
IV 10000	35.8	37.4	40.5	40.5	40.5	41.3	41.3	41.3	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6
IV 9000	37.2	38.8	41.9	41.9	41.9	42.7	42.7	42.7	42.7	42.7	43.0	43.0	43.0	43.0	43.0	43.0
IV 8000	38.0	39.7	43.3	43.3	43.3	44.1	44.1	44.1	44.1	44.1	45.0	45.0	45.0	45.0	45.0	45.0
IV 7000	39.4	41.1	44.7	44.7	44.7	45.0	45.0	45.0	45.0	45.0	46.4	46.4	46.4	46.4	46.4	46.4
IV 6000	41.1	42.7	46.4	46.4	46.4	48.0	48.0	48.0	48.0	48.0	48.3	48.3	48.3	48.3	48.3	48.3
IV 5000	43.0	45.3	48.9	48.9	48.9	49.2	50.6	50.6	50.6	50.6	50.8	50.8	50.8	50.8	50.8	50.8
IV 4500	45.0	47.5	51.1	51.1	51.1	51.4	52.8	52.8	52.8	52.8	53.1	53.1	53.1	53.1	53.1	53.1
IV 4000	46.9	49.4	53.1	53.1	53.1	53.4	54.7	55.0	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3
IV 3500	49.7	53.1	57.3	57.3	57.3	57.8	59.2	59.5	59.5	59.5	59.8	59.8	59.8	59.8	59.8	59.8
IV 3000	54.2	57.5	61.7	62.0	62.0	62.3	63.7	64.2	64.2	64.2	64.5	64.5	64.5	64.5	64.5	64.5
IV 2500	59.3	62.8	67.0	67.9	67.9	68.2	69.6	70.4	70.4	70.4	70.7	70.7	70.7	70.7	70.7	70.7
IV 2000	61.2	65.1	70.4	71.3	71.3	71.8	73.2	74.6	74.6	74.6	74.9	74.9	74.9	74.9	74.9	74.9
IV 1800	61.7	65.9	71.8	72.9	72.9	73.2	75.1	76.0	76.0	76.0	76.3	76.3	76.3	76.3	76.3	76.3
IV 1500	63.1	67.9	73.7	74.9	74.9	75.1	77.1	77.9	78.2	78.2	78.5	78.5	78.5	78.5	78.5	78.5
IV 1200	64.5	69.8	75.5	76.8	76.8	77.1	79.1	79.9	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4
IV 1000	64.8	69.8	75.7	77.1	77.1	77.6	79.6	81.0	81.3	81.3	81.6	81.6	81.6	81.6	81.6	81.6
IV 900	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 800	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 700	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 600	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 500	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 400	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 300	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 200	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 100	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 0	64.8	69.8	75.7	77.4	77.4	77.7	79.9	81.6	81.8	82.4	82.8	82.8	82.8	82.8	82.8	82.8

TOTAL NUMBER OF OBSERVATIONS 358

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65,67

21,0-23,0  
MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .5	> .5	≥ .25	≥ 0	
NO CEILING	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
≥ 20000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 18000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 16000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 14000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 12000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 10000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 9000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 8000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 7000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 6000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 5000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 4500	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 4000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 3500	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 3000	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 2500	50.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
IV 2000	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 1800	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 1500	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 1200	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 1000	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 900	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 800	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 700	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 600	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 500	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 400	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 300	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 200	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 100	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 0	50.0	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 6

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

66=70

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

FORM 300-250

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 1/4
NO CEILING															
≥ 20000	24.9	25.7	29.7	30.4	30.4	30.8	30.8	30.8	30.8	31.2	32.2	32.2	32.2	32.2	32.4
≥ 18000	25.7	27.2	31.2	31.9	31.9	32.2	32.2	32.2	32.2	32.6	33.7	33.7	33.7	33.7	34.1
≥ 16000	25.7	27.2	31.2	31.9	31.9	32.2	32.2	32.2	32.2	32.6	33.7	33.7	33.7	33.7	34.1
IV 14000	25.7	27.2	31.2	31.9	31.9	32.2	32.2	32.2	32.2	32.6	33.7	33.7	33.7	33.7	34.1
IV 12000	25.7	27.2	31.2	31.9	31.9	32.2	32.2	32.2	32.2	32.6	33.7	33.7	33.7	33.7	34.1
IV 10000	26.1	27.5	31.5	32.2	32.2	32.6	32.6	32.6	32.6	33.0	34.1	34.1	34.4	34.4	34.8
IV 9000	26.1	27.5	31.5	32.2	32.2	32.6	32.6	32.6	32.6	33.0	34.1	34.1	34.4	34.4	34.8
IV 8000	27.2	28.6	32.6	33.3	33.3	33.7	33.7	33.7	33.7	34.1	35.1	35.1	35.5	35.5	35.9
IV 7000	27.5	29.0	33.0	33.7	34.4	34.8	34.8	34.8	34.8	35.1	36.2	36.2	36.6	36.6	37.0
IV 6000	28.3	29.7	33.7	34.4	35.1	35.5	35.5	35.5	35.5	35.9	37.0	37.0	37.3	37.3	37.7
IV 5000	30.8	32.2	36.2	37.0	37.7	38.0	38.0	38.0	38.4	38.8	39.9	39.9	40.2	40.2	40.6
IV 4500	31.2	32.6	36.6	37.3	38.0	38.4	38.4	38.4	39.1	39.5	40.6	40.6	40.9	40.9	41.3
IV 4000	31.9	33.3	37.3	38.0	38.8	39.1	39.1	39.1	39.9	40.2	41.3	41.3	41.7	41.7	42.0
IV 3500	33.7	35.5	40.2	40.9	41.7	42.0	42.0	42.0	42.8	43.1	44.2	44.2	44.6	44.6	44.9
IV 3000	38.0	40.6	45.3	46.7	47.5	47.8	47.8	47.8	48.6	48.9	50.0	50.0	50.4	50.4	50.7
IV 2500	43.1	47.1	51.8	53.6	54.7	55.4	55.4	55.4	56.2	56.5	57.6	57.6	58.0	58.0	58.3
IV 2000	44.6	49.6	55.4	59.1	60.1	61.2	61.2	61.2	62.0	62.3	63.4	63.4	63.8	63.8	64.1
IV 1800	44.9	50.4	56.2	59.8	60.9	62.7	63.0	63.0	63.8	64.1	65.2	65.2	65.6	65.6	65.9
IV 1500	45.7	51.4	57.2	62.7	63.8	66.7	66.7	66.7	67.4	67.8	68.8	68.8	69.2	69.2	69.6
IV 1200	46.0	52.2	58.0	63.2	64.3	67.9	70.3	70.3	71.0	71.4	72.5	72.5	72.8	72.8	73.2
IV 1000	46.4	52.5	58.3	63.5	64.4	68.4	71.4	71.4	72.1	72.5	73.2	73.2	74.3	74.3	75.0
IV 900	46.4	52.9	59.1	64.4	65.3	69.3	72.3	72.3	73.0	73.4	74.5	74.5	75.8	75.8	77.2
IV 800	46.7	53.6	59.8	65.1	66.2	70.2	73.2	73.2	73.9	74.3	75.4	75.4	76.8	76.8	78.0
IV 700	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 600	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 500	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 400	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 300	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 200	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 100	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3
IV 0	46.7	53.6	60.1	65.5	66.6	70.6	73.6	73.6	74.3	74.7	75.8	75.8	77.1	77.1	78.3

TOTAL NUMBER OF OBSERVATIONS

276

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0600-0100  
 HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING ≥ 20000	22.0	22.8	23.7	24.4	24.9	25.1	25.1	25.3	25.6	25.6	25.6	25.6	26.2	26.5	26.7	
IV 18000	27.2	28.0	28.9	29.6	30.1	30.3	30.3	30.5	30.8	30.8	31.0	31.0	31.5	31.9	32.1	
IV 16000	27.2	28.0	28.9	29.6	30.1	30.3	30.3	30.5	30.8	30.8	31.0	31.0	31.5	31.9	32.1	
IV 14000	27.2	28.0	28.9	29.6	30.1	30.3	30.3	30.5	30.8	30.8	31.0	31.0	31.5	31.9	32.1	
IV 12000	27.8	28.5	29.4	30.1	30.6	30.8	30.8	31.0	31.5	31.5	31.7	31.7	32.3	32.6	32.8	
IV 10000	28.7	29.4	30.3	31.0	31.5	31.7	31.9	32.1	32.6	32.6	32.8	32.8	33.3	33.7	33.9	
IV 9000	29.4	30.1	31.0	31.7	32.3	32.4	32.6	32.8	33.3	33.3	33.5	33.5	34.1	34.4	34.6	
IV 8000	31.7	32.8	33.7	34.4	34.9	35.1	35.3	35.5	36.0	36.0	36.2	36.2	36.7	37.1	37.5	
IV 7000	34.6	35.7	36.6	37.5	38.0	38.2	38.4	38.5	39.1	39.1	39.2	39.2	39.8	40.1	40.5	
IV 6000	36.6	37.6	38.5	39.6	40.1	40.3	40.5	40.7	41.2	41.2	41.4	41.4	41.9	42.3	42.7	
IV 5000	37.5	38.5	39.6	40.7	41.2	41.4	41.6	41.8	42.3	42.3	42.5	42.5	43.0	43.7	44.4	
IV 4500	37.8	38.9	40.0	41.0	41.6	41.8	41.9	42.1	42.7	42.7	42.8	42.8	43.4	44.1	44.8	
IV 4000	39.8	40.9	42.1	43.2	43.7	43.9	44.1	44.3	44.8	44.8	45.0	45.0	45.5	46.2	47.0	
IV 3500	42.3	43.4	44.6	45.7	46.2	46.4	46.6	46.8	47.3	47.3	47.5	47.5	48.0	48.7	49.5	
IV 3000	43.5	44.8	46.1	47.3	47.9	48.2	48.4	48.6	49.1	49.1	49.3	49.3	50.0	50.7	51.5	
IV 2500	51.3	53.0	54.4	55.7	56.4	56.6	56.8	57.0	57.5	57.5	57.7	57.7	58.4	59.1	60.0	
IV 2000	52.3	54.7	57.9	60.8	61.6	62.0	62.4	62.8	63.1	63.1	63.3	63.3	63.8	64.5	65.2	
IV 1800	53.0	55.4	58.8	61.8	62.7	63.1	63.4	63.6	64.2	64.2	64.3	64.3	64.9	65.6	66.3	
IV 1500	54.3	58.4	62.2	65.9	67.0	67.9	68.6	69.0	69.5	69.5	69.7	69.7	70.4	71.1	71.9	
IV 1200	54.8	59.9	63.8	67.9	69.4	70.8	72.0	72.6	73.7	73.7	73.8	73.8	74.6	75.3	76.0	
IV 1000	55.2	60.2	64.2	68.3	69.9	71.5	73.1	73.7	75.0	75.0	76.2	76.2	77.1	77.8	78.5	
IV 900	55.4	60.4	64.3	68.8	70.4	72.4	74.0	74.6	77.2	77.2	78.0	78.0	78.7	79.4	80.3	
IV 800	55.6	60.6	64.5	69.0	70.6	72.9	75.3	76.7	80.3	81.0	81.2	81.2	81.9	82.6	83.5	
IV 700	55.6	60.6	64.7	69.5	71.1	73.7	76.2	77.6	82.4	83.7	83.7	83.9	84.6	85.3	86.2	
IV 600	55.6	60.6	64.7	69.7	71.3	74.0	76.9	78.3	83.7	85.8	86.0	86.6	87.3	88.0	88.9	
IV 500	55.6	60.6	64.7	69.9	71.5	74.2	77.6	79.7	85.7	88.0	88.4	89.2	90.5	91.4	92.3	
IV 400	55.6	60.6	64.7	69.9	71.5	74.2	77.6	79.7	86.6	89.1	89.6	90.7	91.9	92.8	93.7	
IV 300	55.6	60.6	64.7	69.9	71.5	74.2	77.6	79.7	88.4	91.0	91.9	92.9	95.2	97.5	98.6	
IV 200	55.6	60.6	64.7	69.9	71.5	74.2	77.6	79.7	88.4	91.0	91.9	92.9	96.6	98.2	99.3	
IV 100	55.6	60.6	64.7	69.9	71.5	74.2	77.6	79.7	88.4	91.0	91.9	92.9	96.6	98.2	99.3	
IV 0	55.6	60.6	64.7	69.9	71.5	74.2	77.6	79.7	88.4	91.0	91.9	92.9	96.6	98.2	100.0	

TOTAL NUMBER OF OBSERVATIONS 958

1

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197  
STATION

BAB TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 20000	28,3	29,4	30,1	30,5	30,6	31,0	31,2	31,2	31,4	31,4	31,4	31,4	31,4	31,4	31,5	31,5
IV 16000	33,9	34,9	35,7	36,0	36,2	36,6	36,7	36,7	36,9	36,9	36,9	36,9	36,9	36,9	37,1	37,1
IV 14000	33,9	34,9	35,7	36,0	36,2	36,6	36,7	36,7	36,9	36,9	36,9	36,9	36,9	36,9	37,1	37,1
IV 12000	34,6	35,7	36,4	36,7	36,9	37,3	37,5	37,5	37,6	37,6	37,6	37,6	37,6	37,6	37,6	37,8
IV 10000	35,5	36,6	37,3	37,8	38,0	38,4	38,5	38,5	38,7	38,7	38,7	38,7	38,7	38,7	38,9	38,9
IV 9000	36,2	37,3	38,0	38,5	38,7	39,1	39,2	39,2	39,4	39,4	39,4	39,4	39,4	39,4	39,6	39,6
IV 8000	38,9	40,0	40,7	41,2	41,6	42,1	42,3	42,3	42,5	42,5	42,5	42,5	42,5	42,5	42,7	42,7
IV 7000	41,2	42,3	43,0	43,5	43,9	44,4	44,6	44,6	44,8	44,8	44,8	44,8	44,8	44,8	45,0	45,0
IV 6000	43,4	44,8	45,7	46,2	46,6	47,1	47,3	47,3	47,5	47,5	47,5	47,5	47,5	47,5	47,7	47,7
IV 5000	45,7	47,1	48,2	48,7	49,1	49,6	49,8	49,8	50,0	50,0	50,0	50,0	50,0	50,0	50,4	50,4
IV 4500	45,9	47,3	48,4	48,9	49,3	49,8	50,0	50,0	50,2	50,2	50,2	50,2	50,2	50,2	50,5	50,5
IV 4000	46,8	48,2	49,3	49,8	50,2	51,1	51,3	51,3	51,4	51,4	51,4	51,4	51,4	51,4	51,8	51,8
IV 3500	48,9	50,3	52,0	52,5	52,9	53,9	54,1	54,1	54,3	54,3	54,3	54,3	54,3	54,3	54,7	54,7
IV 3000	50,7	52,3	54,1	54,7	55,0	56,1	56,3	56,3	56,6	56,6	56,6	56,6	56,6	56,6	57,0	57,0
IV 2500	55,5	57,4	61,1	62,4	62,7	63,9	64,2	64,2	64,5	64,5	64,5	64,5	64,5	64,5	64,9	64,9
IV 2000	58,6	60,9	64,2	65,9	66,3	67,7	68,1	68,1	68,6	68,6	68,6	68,6	68,6	68,6	69,0	69,0
IV 1800	59,0	61,3	64,7	66,8	67,2	68,8	69,2	69,2	69,7	69,7	69,7	69,7	69,7	69,7	70,1	70,1
IV 1500	59,9	62,4	65,6	67,9	68,5	70,4	71,3	71,3	72,2	72,2	72,2	72,2	72,2	72,4	72,8	72,8
IV 1200	60,4	63,4	67,0	69,3	70,3	72,4	73,8	73,8	75,0	75,0	75,0	75,0	75,0	75,8	76,2	76,2
IV 1000	60,8	63,8	67,6	70,3	71,1	73,3	75,1	76,2	78,1	79,0	79,2	79,2	79,2	79,2	79,6	79,6
IV 900	60,8	63,8	67,7	70,6	71,3	73,6	75,0	77,2	79,6	80,3	80,8	80,8	80,8	80,8	81,2	81,2
IV 800	60,8	63,8	67,7	71,0	72,0	74,9	77,2	79,0	81,5	82,6	83,0	83,0	83,0	83,0	83,3	83,3
IV 700	60,8	63,8	67,7	71,0	72,2	75,1	78,0	79,9	83,9	85,8	86,6	86,6	86,6	86,6	86,9	86,9
IV 600	60,8	63,8	67,7	71,1	72,4	75,4	79,4	81,3	86,4	88,5	89,1	89,2	89,2	89,2	89,6	89,6
IV 500	60,8	63,8	67,7	71,5	72,8	76,2	80,1	82,6	88,9	91,9	93,3	93,0	93,0	93,4	93,7	93,7
IV 400	60,8	63,8	67,7	71,5	72,8	76,2	80,3	83,2	90,1	93,9	94,4	93,2	93,2	96,2	96,6	96,6
IV 300	60,8	63,8	67,7	71,5	72,8	76,3	80,6	83,7	90,9	95,3	96,2	97,1	97,1	98,7	99,3	99,3
IV 200	60,8	63,8	67,7	71,5	72,8	76,3	80,6	83,7	91,0	95,3	96,4	97,3	97,3	99,1	99,8	99,8
IV 100	60,8	63,8	67,7	71,5	72,8	76,3	80,6	83,7	91,0	95,3	96,4	97,3	97,3	99,1	100,0	100,0
IV 0	60,8	63,8	67,7	71,5	72,8	76,3	80,6	83,7	91,0	95,3	96,4	97,3	97,3	99,1	100,0	100,0

TOTAL NUMBER OF OBSERVATIONS 553

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/4AC

# CEILING VERSUS VISIBILITY

36197  
STATION

BAD TDLZ GERMANY AAF  
STATION NAME

65-7C  
YEARS

12-0-1400  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000		27.4	29.2	30.1	30.6	30.6	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
18000		33.3	35.1	36.6	37.3	37.3	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
16000		33.3	35.1	36.6	37.3	37.3	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
14000		33.3	35.1	36.6	37.3	37.3	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
12000		33.3	35.1	36.6	37.3	37.3	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
10000		33.3	35.3	36.7	37.3	37.3	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
9000		35.1	36.9	38.4	39.2	39.2	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
8000		36.4	38.5	40.0	40.9	40.9	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
7000		37.8	40.1	41.6	42.5	42.5	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
6000		41.4	44.1	45.5	46.4	46.4	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
5000		43.0	46.1	47.5	48.4	48.4	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
4500		43.9	47.0	48.4	49.3	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
4000		45.3	48.7	50.2	51.3	51.3	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
3500		46.4	49.6	51.1	52.2	52.2	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
3000		48.0	51.5	53.0	54.1	54.1	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
2500		51.7	56.2	58.4	60.7	60.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2000		55.8	60.3	62.6	65.9	65.9	70.4	71.0	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.3
1800		59.3	65.2	68.6	71.3	72.0	72.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
1500		60.6	66.3	70.1	72.9	73.8	73.3	76.2	76.2	76.7	76.7	76.7	76.7	76.7	76.7	76.7
1200		61.1	67.2	71.3	74.4	75.3	77.6	78.9	79.0	79.9	79.9	79.9	79.9	79.9	79.9	79.9
1000		61.3	67.4	71.7	74.7	75.8	78.7	80.5	80.6	82.6	82.0	82.0	82.0	82.0	82.0	82.0
900		61.3	67.4	72.0	75.1	76.2	79.2	81.4	81.3	84.1	84.6	84.6	84.6	84.6	84.6	84.6
800		61.3	67.4	72.0	75.3	76.3	79.9	82.6	82.2	86.2	86.9	86.9	86.9	86.9	86.9	86.9
700		61.3	67.4	72.0	75.3	76.7	80.3	83.2	83.9	87.3	87.1	87.1	87.1	87.1	87.1	87.1
600		61.3	67.4	72.0	75.4	76.9	81.2	84.5	85.7	89.2	91.8	91.9	91.9	91.9	91.9	91.9
500		61.3	67.4	72.0	75.4	76.9	81.7	86.0	87.1	92.3	95.5	95.7	95.9	96.4	96.4	96.4
400		61.3	67.4	72.0	75.4	76.9	81.7	86.7	88.4	94.1	97.3	97.5	97.8	98.4	98.4	98.6
300		61.3	67.4	72.0	75.4	76.9	81.7	86.7	88.4	94.4	98.0	98.2	98.6	99.8	99.8	100.0
200		61.3	67.4	72.0	75.4	76.9	81.7	86.7	88.4	94.4	98.0	98.2	98.6	99.8	99.8	100.0
100		61.3	67.4	72.0	75.4	76.9	81.7	86.7	88.4	94.4	98.0	98.2	98.6	99.8	99.8	100.0
0		61.3	67.4	72.0	75.4	76.9	81.7	86.7	88.4	94.4	98.0	98.2	98.6	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 558

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

32

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ ⅓	≥ ¼	≥ ⅒
NO CEILING ≥ 20000	28.1	29.4	30.1	31.2	31.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 18000 16000	36.0	37.3	38.2	39.6	39.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 14000 12000	36.0	37.3	38.2	39.6	39.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 10000 9000	37.1	38.4	39.2	40.7	40.7	41.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
IV 8000 7000	39.4	40.9	41.8	43.2	43.2	43.5	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
IV 6000 5000	43.7	45.7	46.8	48.2	48.2	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 4500 4000	48.2	50.4	51.4	52.9	52.9	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 3500 3000	51.3	53.8	54.8	56.3	56.3	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 2500 2000	59.3	62.7	64.7	66.3	66.3	67.2	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 1800 1500	62.0	67.0	69.7	71.9	71.9	72.9	74.0	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 1200 1000	64.5	70.4	74.2	77.4	77.4	78.7	80.3	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 900 800	64.9	70.8	74.7	78.1	78.1	79.7	82.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 700 600	64.9	70.8	74.7	78.7	78.7	80.3	84.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 500 400	64.9	70.8	74.7	78.7	78.7	80.3	84.4	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 300 200	64.9	70.8	74.7	78.7	78.7	80.3	84.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 100 0	64.9	70.8	74.7	78.7	78.7	80.3	84.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6

TOTAL NUMBER OF OBSERVATION: 598

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34597  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1800-2100  
HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .5	≥ .36	≥ .	≥ 0
NO CEILING ≥ 20000	30.0	32.8	34.3	35.6	35.6	36.4	37.3	37.3	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
IVV 18000 IVV 16000	34.3	37.5	39.0	40.5	40.5	41.4	42.2	42.2	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
IVV 14000 IVV 12000	34.3	37.5	39.0	40.5	40.5	41.4	42.2	42.2	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
IVV 10000 IVV 9000	35.8	39.4	41.2	42.7	42.7	43.5	44.4	44.4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IVV 8000 IVV 7000	38.6	42.2	44.2	45.7	45.7	46.6	47.4	47.4	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IVV 6000 IVV 5000	41.2	44.8	47.2	48.7	48.7	49.6	50.4	50.4	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IVV 4500 IVV 4000	44.6	48.9	51.5	53.0	53.0	53.9	54.7	54.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IVV 3500 IVV 3000	48.3	52.6	55.4	57.1	57.1	58.0	58.8	58.8	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IVV 2500 IVV 2000	53.0	57.9	63.8	65.7	65.7	66.6	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IVV 1800 IVV 1500	56.7	61.4	65.9	67.9	67.9	68.8	69.6	69.6	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IVV 1200 IVV 1000	58.6	64.9	71.6	73.4	73.4	74.3	75.1	75.1	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IVV 900 IVV 800	58.6	64.9	71.6	73.4	73.4	74.3	75.1	75.1	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IVV 700 IVV 600	58.6	64.9	71.6	73.4	73.4	74.3	75.1	75.1	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IVV 500 IVV 400	58.6	64.9	71.6	73.4	73.4	74.3	75.1	75.1	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IVV 300 IVV 200	58.6	64.9	71.6	73.4	73.4	74.3	75.1	75.1	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IVV 100 IVV 0	58.6	64.9	71.6	73.4	73.4	74.3	75.1	75.1	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8

TOTAL NUMBER OF OBSERVATIONS 464



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAB TOLZ GERHANY AAF

68

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 1/4
NO CEILING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
≥ 20000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 18000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 16000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 14000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 12000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 10000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 9000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 8000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 7000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 6000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 5000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 4500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 4000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 2500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL NUMBER OF OBSERVATIONS 1

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 STATION BAD TDLZ GERMANY AAF

6668 YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1
NO CEILING	39.0	44.1	44.1	45.8	45.8	47.5	47.5	47.5	47.5	47.5	49.2	50.8	50.8	50.8
≥ 20000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 18000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 16000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 14000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 12000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 10000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 9000	42.4	47.5	47.5	49.2	49.2	50.8	50.8	50.8	50.8	50.8	52.5	54.2	54.2	54.2
IV 8000	49.2	54.2	54.2	55.9	55.9	57.6	57.6	57.6	57.6	57.6	59.3	61.0	61.0	61.0
IV 7000	55.9	61.0	61.0	62.7	62.7	64.4	64.4	64.4	64.4	64.4	66.1	67.8	67.8	67.8
IV 5000	57.6	62.7	62.7	64.4	64.4	66.1	66.1	66.1	66.1	66.1	67.8	69.5	69.5	69.5
IV 5000	57.6	62.7	62.7	64.4	64.4	66.1	66.1	66.1	66.1	66.1	67.8	69.5	69.5	69.5
IV 4500	61.0	66.1	67.8	69.5	69.5	71.2	71.2	71.2	71.2	71.2	72.9	74.6	74.6	74.6
IV 4000	61.0	66.1	67.8	69.5	69.5	71.2	71.2	71.2	71.2	71.2	72.9	74.6	74.6	74.6
IV 3500	61.0	67.8	69.5	71.2	71.2	72.9	72.9	72.9	72.9	72.9	74.6	76.3	76.3	76.3
IV 3000	61.0	67.8	69.5	71.2	71.2	72.9	72.9	72.9	72.9	72.9	74.6	76.3	76.3	76.3
IV 2500	62.7	71.2	72.9	74.6	74.6	76.3	76.3	76.3	76.3	76.3	78.0	79.7	79.7	79.7
IV 2000	64.4	72.9	76.3	79.7	79.7	81.4	81.4	81.4	81.4	81.4	83.1	84.7	84.7	84.7
IV 1800	64.4	72.9	76.3	79.7	79.7	81.4	81.4	81.4	81.4	81.4	83.1	84.7	84.7	84.7
IV 1500	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 1200	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 1000	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 900	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 800	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 700	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 600	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 500	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 400	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 300	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 200	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 100	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7
IV 0	64.4	74.6	78.0	84.7	84.7	86.4	86.4	86.4	86.4	86.4	88.1	89.7	89.7	89.7

TOTAL NUMBER OF OBSERVATIONS

59

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

24197      BAD TOLZ GERMANY AAF

66-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2200-0900

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.1	0	0	
NO CEILING																	
IV 20000	39.6	40.4	42.4	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
IV 18000	42.4	43.2	45.2	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
IV 16000	42.4	43.2	45.2	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
IV 14000	42.4	43.2	45.2	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
IV 12000	43.2	44.0	46.0	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 10000	43.6	44.4	46.4	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
IV 9200	45.6	46.4	48.4	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
IV 8000	48.0	49.2	51.2	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
IV 7000	49.6	50.8	52.8	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	54.0
IV 6000	49.6	50.8	52.8	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	54.0
IV 5000	51.6	52.8	54.8	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
IV 4500	51.6	52.8	54.8	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
IV 4000	53.6	54.8	56.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 3500	56.4	57.6	59.6	60.8	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 3000	58.0	59.2	61.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 2500	62.4	63.6	65.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 2000	65.2	66.4	68.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 1800	66.0	67.2	69.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 1500	67.6	68.8	70.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 1200	67.6	68.8	70.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 1000	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 900	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 800	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 700	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 600	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 500	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 400	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 300	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 200	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 100	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 0	68.0	69.2	71.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4

TOTAL NUMBER OF OBSERVATIONS 250

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 3AP TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

7610-0100

CEILING FEET.	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1.5	≥ 1.2	≥ 1.0	≥ 0.8	≥ 0.6	≥ 0.5	≥ 0.4	≥ 0.3	≥ 0.2	≥ 0.1
NO CEILING																
≥ 20000	29.8	32.0	33.0	33.1	33.3	33.5	33.7	33.7	33.9	33.9	33.9	33.9	34.3	34.3	34.5	
18000	34.6	36.9	37.8	38.0	38.2	38.4	38.5	38.5	38.7	38.7	38.7	38.7	39.1	39.1	39.3	
16000	34.6	36.9	37.8	38.0	38.2	38.4	38.5	38.5	38.7	38.7	38.7	38.7	39.1	39.1	39.3	
14000	34.8	37.1	38.0	38.2	38.4	38.5	38.7	38.7	38.9	38.9	38.9	38.9	39.3	39.3	39.5	
12000	35.6	37.8	38.7	38.9	39.1	39.3	39.5	39.5	39.7	39.7	39.7	39.7	40.0	40.0	40.2	
10000	36.5	38.7	39.7	39.9	40.0	40.2	40.4	40.4	40.6	40.6	40.6	40.6	41.0	41.0	41.2	
9000	37.8	40.0	41.0	41.2	41.3	41.5	41.7	41.7	41.9	41.9	41.9	41.9	42.3	42.3	42.5	
8000	43.2	45.4	46.4	46.6	46.7	46.9	47.1	47.1	47.3	47.3	47.3	47.3	47.7	47.7	47.9	
7000	46.0	48.2	49.2	49.5	49.7	49.9	50.1	50.1	50.3	50.3	50.3	50.3	50.7	50.7	50.8	
6000	46.4	48.6	49.7	49.9	50.1	50.3	50.5	50.5	50.7	50.7	50.7	50.7	51.0	51.0	51.2	
5000	48.2	50.8	52.0	52.1	52.3	52.5	52.7	52.7	52.9	52.9	52.9	52.9	53.3	53.3	53.4	
4500	50.8	53.6	54.7	54.9	55.1	55.3	55.5	55.5	55.7	55.7	55.7	55.7	56.1	56.1	56.2	
4000	52.7	55.9	57.2	57.4	57.5	57.7	57.9	57.9	58.1	58.1	58.1	58.1	58.5	58.5	58.7	
3500	54.7	57.9	59.6	59.8	60.0	60.2	60.4	60.4	60.7	60.7	60.7	60.7	61.3	61.3	61.5	
3000	56.1	59.4	61.3	61.8	62.0	62.2	62.4	62.4	62.7	62.7	62.7	62.7	63.3	63.3	63.5	
2500	60.1	63.4	65.7	66.2	66.4	66.6	66.8	66.8	67.1	67.1	67.1	67.1	67.7	67.7	67.9	
2000	61.8	65.2	67.6	68.1	68.3	68.5	68.7	68.7	69.0	69.0	69.0	69.0	69.6	69.6	69.8	
1800	61.8	65.2	67.6	68.1	68.3	68.5	68.7	68.7	69.0	69.0	69.0	69.0	69.6	69.6	69.8	
1500	61.8	65.2	67.6	68.1	68.3	68.5	68.7	68.7	69.0	69.0	69.0	69.0	69.6	69.6	69.8	
1200	61.8	65.2	67.6	68.1	68.3	68.5	68.7	68.7	69.0	69.0	69.0	69.0	69.6	69.6	69.8	
1000	61.8	65.2	67.6	68.1	68.3	68.5	68.7	68.7	69.0	69.0	69.0	69.0	69.6	69.6	69.8	
900	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
800	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
700	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
600	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
500	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
400	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
300	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
200	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
100	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	
0	65.0	70.4	72.7	73.2	73.4	73.6	73.8	73.8	74.1	74.1	74.1	74.1	74.7	74.7	74.9	

TOTAL NUMBER OF OBSERVATIONS 537

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-70

PR  
 0900-1100

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY IN STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING														
≥ 20000	32.8	33.5	34.1	34.5	34.5	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
18000	37.4	38.2	38.7	39.1	39.1	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
16000	37.4	38.2	38.7	39.1	39.1	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
14000	38.2	38.9	39.3	39.9	39.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
12000	39.1	39.9	40.4	40.8	40.8	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
10000	41.2	41.9	42.5	42.8	42.8	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
9000	42.2	42.8	43.4	43.8	43.8	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
8000	44.7	45.2	45.8	46.5	46.5	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
7000	47.5	48.0	48.6	49.3	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
6000	48.8	49.7	50.3	50.7	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
5000	50.5	51.4	52.0	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
4500	51.8	52.7	53.3	53.6	53.6	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
4000	54.7	55.9	56.4	56.8	56.8	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
3500	56.8	57.9	58.5	58.8	58.8	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
3000	60.0	61.5	62.0	62.6	62.6	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
2500	63.1	65.2	66.1	67.0	67.0	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2000	65.4	68.2	70.0	70.9	70.9	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
1800	66.1	69.5	71.5	72.8	72.8	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
1500	67.6	71.3	74.3	76.2	76.2	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
1200	69.3	73.7	77.3	80.5	80.5	82.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
1000	70.0	74.9	79.1	82.3	82.3	83.9	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
900	70.4	74.9	79.7	83.1	83.1	84.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
800	70.6	75.0	80.1	83.4	83.4	85.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
700	70.8	75.2	80.4	84.0	84.0	86.1	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
600	70.8	75.2	80.6	84.2	84.2	86.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
500	70.8	75.2	80.6	84.2	84.2	86.5	90.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
400	70.8	75.2	80.6	84.2	84.2	86.5	90.7	91.8	92.7	92.7	92.7	92.7	92.7	92.7
300	70.8	75.2	80.6	84.2	84.2	86.5	90.7	91.8	92.7	93.7	93.7	93.7	93.7	93.7
200	70.8	75.2	80.6	84.2	84.2	86.5	90.7	91.8	92.7	93.7	94.8	94.8	94.8	94.8
100	70.8	75.2	80.6	84.2	84.2	86.5	90.7	91.8	92.7	93.7	94.8	95.7	95.7	95.7
0	70.8	75.2	80.6	84.2	84.2	86.5	90.7	91.8	92.7	93.7	94.8	95.7	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 537

DATA PROCESSING DIVISION  
 USAF EYAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

36197 BAD TOLZ GERMANY AAF

65-7C

APR  
 1957

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING (FEET)	VISIBILITY STATE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING	31.5	32.0	32.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
IV ≥ 20000	38.2	38.7	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
IV ≥ 18000	38.4	38.9	39.3	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
IV ≥ 16000	38.4	38.9	39.3	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
IV ≥ 14000	38.5	39.1	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV ≥ 12000	39.3	39.9	40.2	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
IV ≥ 10000	40.8	41.3	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV ≥ 9000	41.5	42.1	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
IV ≥ 8000	45.3	45.8	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV ≥ 7000	47.1	47.7	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
IV ≥ 6000	47.7	48.2	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
IV ≥ 5000	49.0	49.5	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV ≥ 4500	50.3	50.8	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV ≥ 4000	53.1	53.8	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV ≥ 3500	55.3	55.6	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV ≥ 3000	60.3	61.8	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV ≥ 2500	70.8	73.2	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV ≥ 2000	72.8	75.6	76.7	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV ≥ 1800	73.6	76.3	76.2	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV ≥ 1500	75.8	79.9	82.3	83.2	83.6	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV ≥ 1200	76.4	80.3	83.0	83.1	86.0	87.2	87.3	87.3	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV ≥ 1000	76.7	81.2	84.4	86.0	87.0	88.5	88.8	89.9	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV ≥ 900	76.9	81.6	84.7	86.8	87.7	89.2	89.8	90.9	91.8	92.0	92.0	92.0	92.2	92.2	92.2	92.2
IV ≥ 800	76.9	81.8	84.9	87.2	88.1	89.8	91.1	92.6	93.5	93.7	93.7	93.7	93.9	93.9	93.9	93.9
IV ≥ 700	77.1	82.1	85.3	87.9	88.8	90.3	91.8	93.7	94.6	95.3	95.3	95.3	95.7	95.7	95.7	95.7
IV ≥ 600	77.1	82.1	85.3	87.9	88.8	90.3	92.0	94.0	95.0	96.5	96.5	96.5	97.0	97.2	97.2	97.2
IV ≥ 500	77.1	82.1	85.3	87.9	88.8	90.3	92.4	94.6	96.5	98.1	98.7	98.9	99.3	99.3	99.3	99.3
IV ≥ 400	77.1	82.1	85.3	87.9	88.8	90.3	92.4	94.6	96.5	98.1	98.9	99.1	99.8	99.8	99.8	99.8
IV ≥ 300	77.1	82.1	85.3	87.9	88.8	90.3	92.4	94.6	96.5	98.1	98.9	99.1	99.8	99.8	99.8	99.8
IV ≥ 200	77.1	82.1	85.3	87.9	88.8	90.3	92.4	94.6	96.5	98.1	98.9	99.1	99.8	99.8	99.8	99.8
IV ≥ 100	77.1	82.1	85.3	87.9	88.8	90.3	92.4	94.6	96.5	98.1	98.9	99.1	99.8	99.8	99.8	99.8
IV ≥ 0	77.1	82.1	85.3	87.9	88.8	90.3	92.4	94.6	96.5	98.1	98.9	99.1	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

537

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 STATION BAB TOLZ GERMANY AAF 65-70

APR 1954  
 1500-1700

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .8	≥ .6	≥ .4	≥ .2
NO CEILING														
≥ 20000	28.7	29.6	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
IV 18000	40.1	41.0	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 16000	40.1	41.0	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 14000	40.5	41.2	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
IV 12000	40.6	41.6	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
IV 10000	43.6	44.6	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 8000	44.0	44.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
IV 7000	48.3	49.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
IV 6000	51.1	52.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
IV 5000	54.5	55.8	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 4500	55.6	57.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 4000	58.6	60.5	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 3500	60.5	62.9	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 3000	63.9	66.5	67.8	68.2	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IV 2500	71.2	74.2	76.0	76.4	76.6	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 2000	73.8	77.3	79.4	79.8	80.3	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 1800	74.0	78.2	80.9	81.3	81.8	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 1500	74.9	80.1	83.3	83.7	84.5	85.6	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 1200	75.5	80.7	84.5	85.0	86.2	88.2	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 1000	75.8	81.1	85.0	86.1	87.5	89.5	90.1	91.0	91.2	91.2	91.2	91.2	91.2	91.2
IV 900	75.8	81.1	85.0	86.1	87.5	89.5	90.1	91.0	91.2	91.2	91.2	91.2	91.2	91.2
IV 800	75.8	81.1	85.0	86.1	87.5	89.5	90.1	91.0	91.2	91.2	91.2	91.2	91.2	91.2
IV 700	75.8	81.5	85.6	86.7	88.2	91.5	93.3	94.8	95.9	96.1	96.3	96.3	96.3	96.3
IV 600	75.8	81.5	85.6	86.7	88.2	91.5	93.3	94.8	95.9	96.1	96.3	96.3	96.3	96.3
IV 500	75.8	81.5	85.6	86.7	88.2	91.5	93.3	94.8	95.9	96.1	96.3	96.3	96.3	96.3
IV 400	76.0	81.6	85.8	87.1	88.6	92.9	93.6	95.1	97.0	97.6	97.6	97.6	97.6	97.6
IV 300	76.0	81.6	85.8	87.1	88.6	92.9	93.6	95.1	97.0	97.6	97.6	97.6	97.6	97.6
IV 200	76.0	81.6	85.8	87.1	88.6	92.9	93.6	95.1	97.0	97.6	97.6	97.6	97.6	97.6
IV 100	76.0	81.6	85.8	87.1	88.6	92.9	93.6	95.1	97.0	97.6	97.6	97.6	97.6	97.6
IV 0	76.0	81.6	85.8	87.1	88.6	92.9	93.6	95.1	97.0	97.6	97.6	97.6	97.6	97.6

TOTAL NUMBER OF OBSERVATIONS 534

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

L.P.N.  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
PERIOD

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .2	≥ .16	≥ .0	
NO CEILING																
IV 20000	34.0	34.8	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
IV 16000	42.7	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 14000	43.1	44.1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 12000	43.1	44.1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 10000	44.1	45.2	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 9000	44.8	45.6	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
IV 8000	47.4	48.7	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
IV 7000	50.9	52.4	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 6000	52.4	53.8	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 5000	54.2	55.4	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
IV 4500	56.1	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 4000	59.8	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 3500	61.2	62.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 3000	64.9	66.6	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
IV 2500	68.9	71.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 2000	70.7	74.0	75.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 1800	71.1	74.6	77.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 1500	72.2	75.9	79.4	81.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 1200	72.2	75.9	80.0	83.5	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 1000	72.2	76.1	80.2	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 900	72.2	76.1	80.2	84.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IV 800	72.2	76.1	80.4	84.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
IV 700	72.2	76.3	81.2	85.2	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 600	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 500	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 400	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 300	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 200	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 100	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 0	72.2	76.3	81.2	85.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2

TOTAL NUMBER OF OBSERVATIONS 485



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

2AB TULZ GERMANY AAF  
STATION NAME

66-68  
YEAR

APR  
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	≥ 1.4	≥ 1	≥ .75	≥ .50	≥ .25	≥ .16	≥ .1	≥ .05
NO CEILING																
≥ 20000	46.2	46.2	46.2	48.1	48.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
IV 18000	50.9	50.9	50.9	52.8	52.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 16000	50.9	50.9	50.9	52.8	52.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 14000	50.9	50.9	50.9	52.8	52.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 12000	50.9	50.9	50.9	52.8	52.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 10000	50.9	50.9	50.9	52.8	52.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 9000	51.9	51.9	51.9	53.8	53.8	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 8000	52.8	52.8	52.8	54.7	54.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 7000	59.4	59.4	59.4	61.3	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 6000	61.3	61.3	61.3	63.2	63.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 5000	61.3	61.3	61.3	63.2	63.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 4500	64.2	67.0	67.9	69.8	69.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4000	65.1	67.9	68.9	70.8	70.8	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 3500	66.0	68.9	70.8	72.6	72.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 3000	66.0	68.9	70.8	72.6	72.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 2500	59.8	72.6	76.4	79.2	79.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
IV 2000	70.8	77.4	83.0	85.8	85.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 1800	70.8	77.4	83.0	85.8	85.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 1500	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 1200	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 1000	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 900	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 800	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 700	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 600	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 500	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 400	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 300	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 200	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 100	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 0	71.7	78.3	83.8	86.6	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6

TOTAL NUMBER OF OBSERVATIONS. 106

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

66-68

AY  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0000-0200  
 HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .5	≥ .56	≥ .5	≥ .5
NO CEILING																
≥ 20000	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	59.0	59.0	59.0
IV 18000	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	59.0	59.0	59.0
IV 16000	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	59.0	59.0	59.0
IV 14000	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	59.0	59.0	59.0
IV 12000	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	59.0	59.0	59.0
IV 10000	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	59.0	59.0	59.0
IV 9000	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	59.0	59.0	59.0
IV 8000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 7000	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 6000	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 5000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 4500	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 4000	74.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IV 3500	76.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 3000	79.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 2500	79.5	84.6	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 2000	79.5	84.6	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 1800	79.5	84.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1500	79.5	84.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1200	79.5	89.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 1000	79.5	89.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 700	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	79.5	89.7	94.9	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 39

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 STATION BAD TOLZ GERMANY AAF

65-69

AY

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0300-0500

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .3	≥ .1		
NO CEILING															
≥ 20000	40.2	40.7	41.2	41.7	41.7	41.7	41.7	41.7	41.7	42.2	42.2	42.2	42.2	42.7	43.2
18000	43.7	44.2	44.7	45.2	45.2	45.2	45.2	45.2	45.2	45.7	45.7	45.7	45.7	46.2	46.7
16000	43.7	44.2	44.7	45.2	45.2	45.2	45.2	45.2	45.2	45.7	45.7	45.7	45.7	46.2	46.7
14000	43.7	44.2	44.7	45.2	45.2	45.2	45.2	45.2	45.2	45.7	45.7	45.7	45.7	46.2	46.7
12000	44.2	44.7	45.2	45.7	45.7	45.7	45.7	45.7	45.7	46.2	46.2	46.2	46.2	46.7	47.2
10000	44.7	45.2	45.7	46.2	46.2	46.7	46.7	46.7	46.7	47.2	47.2	47.2	47.2	47.7	48.2
9000	45.7	46.2	46.7	47.2	47.2	47.7	47.7	47.7	47.7	48.2	48.2	48.2	48.2	48.7	49.2
8000	50.3	50.8	51.3	51.8	51.8	52.3	52.3	52.3	52.3	52.8	52.8	52.8	52.8	53.3	53.8
7000	52.8	53.8	54.3	54.8	54.8	55.3	55.3	55.3	55.3	55.8	55.8	55.8	55.8	56.3	56.8
6000	55.3	56.3	56.8	57.3	57.3	57.8	57.8	57.8	57.8	58.3	58.3	58.3	58.3	58.8	59.3
5000	56.8	57.8	58.3	58.8	58.8	59.3	59.3	59.3	59.3	60.3	60.3	60.3	60.3	60.8	61.3
4500	58.8	59.8	60.3	60.8	60.8	61.8	61.8	61.8	61.8	62.3	62.3	62.3	62.3	62.8	63.3
4000	62.8	63.8	64.3	64.8	64.8	65.8	65.8	65.8	65.8	66.3	66.3	66.3	66.3	66.8	67.3
3500	64.8	65.8	66.3	66.8	67.3	68.3	68.3	68.3	68.3	68.8	68.8	68.8	68.8	69.3	69.8
3000	65.3	70.9	71.4	71.9	72.4	73.4	73.4	73.4	73.4	74.4	74.4	74.4	74.4	74.9	75.4
2500	72.9	74.9	75.4	76.4	76.4	78.4	78.4	78.4	78.4	79.4	79.4	79.4	79.4	79.9	80.4
2000	76.4	78.4	79.9	80.9	81.4	82.4	82.4	82.4	82.4	83.4	83.4	83.4	83.4	83.9	84.4
1800	76.4	78.4	80.4	81.4	81.9	82.9	82.9	82.9	82.9	83.9	83.9	83.9	83.9	84.4	84.9
1500	77.4	79.4	81.4	82.9	84.4	85.4	85.4	85.4	85.4	86.4	86.4	86.4	86.4	86.9	87.4
1200	78.4	80.4	82.9	83.4	84.4	85.4	85.4	85.4	85.4	86.4	86.4	86.4	86.4	86.9	87.4
1000	79.4	81.4	84.4	87.9	89.9	91.5	91.5	91.5	91.5	92.5	92.5	92.5	92.5	93.0	93.5
900	79.4	81.4	84.4	87.9	89.9	91.5	91.5	91.5	91.5	92.5	92.5	92.5	92.5	93.0	93.5
800	79.4	81.4	84.4	87.9	90.3	94.0	94.0	94.0	94.0	95.0	95.0	95.0	95.0	95.5	96.0
700	79.4	81.4	84.4	87.9	90.3	94.0	94.0	94.0	94.0	95.0	95.0	95.0	95.0	95.5	96.0
600	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5
500	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5
400	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5
300	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5
200	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5
100	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5
0	79.4	81.9	84.9	88.4	91.0	95.0	95.0	95.0	95.0	96.5	96.5	96.5	96.5	97.0	97.5

TOTAL NUMBER OF OBSERVATIONS 159

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 8AP TOLZ GERMANY AAF

65-70

AY

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

3600-0800

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	6	≥ 5	≥ 4	≥ 3	≥ 2.5	> 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING ≥ 20000	37.1	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.5	38.7	38.7	38.9	38.9	39.1
IVM 18000	41.0	42.1	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.6	42.8	42.8	43.0	43.0	43.2
IVM 16000	41.0	42.1	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.6	42.8	42.8	43.0	43.0	43.2
IVM 14000	41.0	42.1	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.6	42.8	42.8	43.0	43.0	43.2
IVM 12000	41.2	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.8	43.0	43.0	43.2	43.2	43.4
IVM 10000	43.4	44.5	44.9	44.9	44.9	44.9	44.9	45.3	45.3	45.3	45.4	45.6	45.6	45.8	45.8	46.0
IVM 9000	44.9	46.2	46.6	46.6	46.6	46.6	46.6	46.9	46.9	46.9	47.1	47.3	47.3	47.5	47.5	47.7
IVM 8000	49.2	50.5	50.8	50.8	50.8	50.8	50.8	51.2	51.2	51.2	51.4	51.5	51.6	51.8	51.8	52.0
IVM 7000	52.0	53.4	53.8	54.0	54.0	54.0	54.0	54.4	54.4	54.4	54.6	54.7	54.7	54.9	54.9	55.1
IVM 6000	54.6	56.1	56.4	56.6	56.6	56.6	56.6	57.0	57.0	57.0	57.2	57.4	57.4	57.5	57.5	57.7
IVM 5000	57.0	58.5	58.8	59.0	59.0	59.0	59.0	59.4	59.4	59.4	59.6	59.8	59.8	60.0	60.0	60.1
IVM 4500	57.7	59.2	59.6	59.8	59.8	59.8	59.8	60.1	60.1	60.1	60.3	60.5	60.5	60.7	60.7	60.9
IVM 4000	58.8	60.3	60.7	60.9	60.9	60.9	60.9	61.3	61.3	61.3	61.5	61.6	61.6	61.8	61.8	62.0
IVM 3500	61.6	63.3	63.7	64.2	64.2	64.2	64.2	64.6	64.6	64.6	64.8	65.0	65.0	65.2	65.2	65.4
IVM 3000	65.2	67.2	68.0	68.9	69.1	69.1	69.1	69.6	69.6	69.6	69.8	70.0	70.0	70.2	70.2	70.4
IVM 2500	68.9	71.1	71.9	72.8	73.0	73.0	73.0	73.6	73.6	73.6	73.7	73.9	73.9	74.1	74.1	74.3
IVM 2000	71.9	74.3	75.0	76.5	76.7	76.7	76.7	77.5	77.5	77.5	78.0	78.2	78.4	78.4	78.6	78.8
IVM 1800	72.6	75.4	76.2	77.8	78.0	78.0	78.0	78.8	78.8	78.8	79.3	79.5	79.7	79.7	79.9	80.1
IVM 1500	74.3	77.5	79.1	81.2	82.3	82.3	82.3	83.4	83.4	83.4	84.0	84.2	84.4	84.4	84.7	84.9
IVM 1200	76.7	80.0	83.2	85.7	87.0	87.0	87.0	88.5	88.5	88.5	89.0	89.2	89.4	89.4	89.8	89.9
IVM 1000	77.8	81.9	84.7	88.1	89.4	89.4	89.4	91.4	91.4	91.4	92.0	92.2	92.4	92.4	92.7	92.9
IVM 900	77.8	82.1	84.9	88.3	89.6	89.6	89.6	92.0	92.0	92.0	93.1	93.3	93.5	93.5	93.9	94.0
IVM 800	78.0	82.3	85.1	88.5	90.1	90.1	90.1	92.6	92.6	92.6	94.6	95.0	95.2	95.2	95.5	95.7
IVM 700	78.8	82.5	85.3	88.8	90.3	90.3	90.3	94.2	94.2	94.2	96.3	96.7	96.8	96.8	97.3	97.5
IVM 600	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.2	95.2	95.2	97.0	97.8	97.8	98.0	98.3	98.5
IVM 500	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.7	95.7	95.7	97.8	98.5	98.5	98.7	98.7	98.9
IVM 400	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.7	95.7	95.7	97.8	98.5	98.5	98.7	98.7	98.9
IVM 300	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.7	95.7	95.7	97.8	98.5	98.5	98.7	98.7	98.9
IVM 200	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.7	95.7	95.7	97.8	98.5	98.5	98.7	98.7	98.9
IVM 100	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.7	95.7	95.7	97.8	98.5	98.5	98.7	98.7	98.9
IVM 0	78.2	82.7	85.7	89.2	90.7	90.7	90.7	95.7	95.7	95.7	97.8	98.5	98.5	98.7	98.7	98.9

TOTAL NUMBER OF OBSERVATIONS 337

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-70

AY

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2900-1100

CEILING FEET	VISIBILITY STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .5	≥ .25	0
NO CEILING ≥ 20000	34.8 41.9	35.8 42.8	35.9 43.0	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2	36.1 43.2
IV 18000 IV 16000	41.9 41.9	42.8 42.8	43.0 43.0	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2	43.2 43.2
IV 14000 IV 12000	41.9 42.8	42.8 42.8	43.0 43.0	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1	43.2 44.1
IV 10000 IV 9000	44.1 45.3	45.1 46.2	45.3 46.4	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6	45.4 46.6
IV 8000 IV 7000	47.3 49.3	48.4 50.5	48.6 50.7	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8	48.8 50.8
IV 6000 IV 5000	51.2 53.3	52.3 54.4	52.5 54.6	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7	52.7 54.7
IV 4500 IV 4000	54.4 57.4	55.5 58.5	55.7 58.7	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8	55.9 58.8
IV 3500 IV 3000	60.3 64.8	61.6 66.5	61.8 67.0	62.0 68.0	62.0 68.0	62.0 68.0	62.0 68.2	62.0 68.2	62.0 68.2	62.0 68.2	62.0 68.2	62.0 68.2	62.0 68.2	62.0 68.2
IV 2500 IV 2000	70.0 72.2	71.9 74.7	72.6 73.6	73.6 76.7	73.6 76.9	73.6 77.8	74.1 78.0	74.1 78.0	74.1 78.0	74.1 78.0	74.1 78.0	74.1 78.0	74.1 78.0	74.1 78.0
IV 1800 IV 1500	73.4 77.1	75.8 78.9	76.9 81.9	78.0 83.4	78.2 84.2	79.1 85.3	79.5 85.7	79.7 85.8	79.7 85.8	79.7 85.8	79.7 85.8	79.7 85.8	79.7 85.8	79.7 85.8
IV 1200 IV 1000	80.1 81.4	82.4 84.7	83.4 87.9	84.6 90.1	84.8 91.2	84.9 92.6	85.2 92.9	85.4 93.1	85.4 93.1	85.4 93.1	85.4 93.1	85.4 93.1	85.4 93.1	85.4 93.1
IV 900 IV 800	81.4 81.8	83.9 85.5	85.2 88.8	90.3 91.6	91.5 93.3	92.8 93.0	93.9 93.7	94.0 96.5	94.2 97.0	94.2 97.0	94.2 97.0	94.2 97.0	94.2 97.0	94.2 97.0
IV 700 IV 600	81.8 81.8	85.5 85.5	88.8 88.8	91.8 91.8	93.5 93.5	95.7 95.7	96.8 97.2	97.8 98.1	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7	98.1 98.7
IV 500 IV 400	81.8 81.8	85.5 85.5	88.8 88.8	91.8 91.8	93.7 93.7	96.1 96.1	97.8 97.8	98.7 98.7	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0
IV 300 IV 200	81.8 81.8	85.5 85.5	88.8 88.8	91.8 91.8	93.7 93.7	96.1 96.1	97.8 97.8	98.7 98.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 100 0	81.8 81.8	85.5 85.5	88.8 88.8	91.8 91.8	93.7 93.7	96.1 96.1	97.8 97.8	98.7 98.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 357

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

4Y

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET.	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ 0.75	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05
NO CEILING															
≥ 20000		30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
IV 18000		39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 16000		39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
IV 14000		39.8	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 12000		40.3	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
IV 10000		41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
IV 9000		42.3	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
IV 8000		43.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 7000		48.2	46.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
IV 6000		49.9	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
IV 5000		52.2	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
IV 4500		53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
IV 4000		58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 3500		61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 3000		68.7	69.6	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 2500		73.7	77.6	76.2	76.2	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
IV 2000		78.2	80.1	81.2	81.8	82.0	82.3	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 1800		79.3	81.6	82.7	83.3	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IV 1500		82.9	85.6	86.7	88.0	88.4	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IV 1200		83.9	86.7	88.6	90.7	91.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1000		84.1	87.1	89.2	91.7	92.2	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 900		84.1	87.3	89.3	92.0	92.6	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 800		84.3	87.5	89.5	92.4	93.9	93.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 700		84.4	87.7	90.5	94.1	94.9	96.6	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 600		84.4	87.7	90.5	94.3	95.3	97.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 500		84.4	87.7	90.5	94.5	95.4	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 400		84.4	87.7	90.5	94.5	95.4	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 300		84.4	87.7	90.5	94.5	95.4	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 200		84.4	87.7	90.5	94.5	95.4	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 100		84.4	87.7	90.5	94.5	95.4	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 0		84.4	87.7	90.5	94.5	95.4	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 527

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAD TOLZ GERMANY AAF

65-70

BY

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .5	≥ .5	≥ .5	≥ .5	≥ .5
NC CEILING																
≥ 20000		30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 18000		39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 16000		39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 14000		39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 12000		40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
IV 10000		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	41.5
IV 9000		42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
IV 8000		47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 7000		49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 6000		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
IV 5000		53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
IV 4500		55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 4000		60.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 3500		65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 3000		73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 2500		80.0	81.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 2000		82.3	84.1	85.4	85.4	85.4	85.4	85.8	85.8	85.8	85.8	86.0	86.0	86.0	86.0	86.0
IV 1800		83.3	85.0	86.8	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.9	87.9	87.9	87.9	87.9
IV 1500		84.6	86.4	88.3	88.9	89.1	89.1	89.6	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2
IV 1200		84.8	86.9	89.8	91.2	91.6	91.6	92.1	92.5	92.5	92.5	93.7	93.7	93.7	93.7	93.7
IV 1000		84.8	87.1	90.4	91.7	92.5	92.5	93.1	93.7	93.7	94.5	94.8	94.8	95.0	95.0	95.0
IV 900		84.8	87.1	90.6	92.1	92.9	92.9	93.5	94.0	94.0	95.0	95.2	95.2	95.4	95.4	95.4
IV 800		85.0	87.3	91.0	92.5	93.3	93.3	94.6	95.3	95.6	96.7	96.9	96.9	97.1	97.1	97.1
IV 700		85.4	87.7	91.4	93.1	93.9	93.9	95.2	96.0	96.2	97.5	97.7	97.7	97.9	97.9	97.9
IV 600		85.4	87.7	91.6	93.3	94.2	94.2	95.8	96.5	96.7	98.1	98.3	98.3	98.5	98.5	98.5
IV 500		85.4	87.7	91.6	93.3	94.2	94.2	96.4	97.1	97.3	98.7	98.8	98.8	99.4	99.4	99.4
IV 400		85.4	87.7	91.6	93.3	94.2	94.2	96.4	97.1	97.5	99.0	99.2	99.2	99.8	100.0	100.0
IV 300		85.4	87.7	91.6	93.3	94.2	94.2	96.4	97.1	97.5	99.0	99.2	99.2	99.8	100.0	100.0
IV 200		85.4	87.7	91.6	93.3	94.2	94.2	96.4	97.1	97.5	99.0	99.2	99.2	99.8	100.0	100.0
IV 100		85.4	87.7	91.6	93.3	94.2	94.2	96.4	97.1	97.5	99.0	99.2	99.2	99.8	100.0	100.0
IV 0		85.4	87.7	91.6	93.3	94.2	94.2	96.4	97.1	97.5	99.0	99.2	99.2	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 521

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

4197 STATION BAP TOLZ GERMANY AAF 65-70 YEARS AY

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1800-2000  
 HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 0.8	≥ 0.6	≥ 0.5	≥ 0.4	≥ 0.3
NO CEILING	38.7	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 20000	43.3	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
IV 18000	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 16000	44.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 14000	44.8	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
IV 12000	45.3	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 10000	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
IV 9000	47.3	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 8000	53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 7000	55.5	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
IV 6000	57.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
IV 5000	58.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
IV 4500	62.1	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 4000	65.1	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 3500	69.0	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 3000	75.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 2500	79.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 2000	81.7	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 1800	81.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 1500	82.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 1200	84.2	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 1000	84.2	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 900	84.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 800	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 700	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 600	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 500	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 400	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 300	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 200	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 100	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 0	85.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6

TOTAL NUMBER OF OBSERVATIONS 393



MS

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1

34197 BAR TOLZ GERMANY AAF

66-66

DAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 0	<	> 1/4	> 1/8	> 1/4	
NO CEILING	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
IV 20000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 18000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 16000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 14000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 12000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 10000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 9000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 8300	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 7000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 6000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 5000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 4500	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 4000	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 3500	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 3000	71.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 2500	75.0	76.7	76.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 2000	75.0	78.3	78.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 1800	76.7	80.0	80.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IV 1500	76.7	85.0	85.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1200	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1000	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 900	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 800	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 700	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 600	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 500	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 400	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 300	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 200	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 100	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 0	78.3	90.0	90.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS

60

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

67-69

JUL  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .5	≥ .36	≥ .25	≥ .2
NO CEILING ≥ 20000				44.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 18000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 14000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 10000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 7000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 6000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 5000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 4500				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 4000				44.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 3500	11.1	11.1	55.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 3000	11.1	11.1	55.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 2500	22.2	22.2	66.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 2000	22.2	22.2	66.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 1800	22.2	22.2	66.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 1500	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	33.3	33.3	77.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 9

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 34197 BAD TOLZ GERMANY AAF STATION NAME

65-69 YEARS

MONTH \_\_\_\_\_  
 HOURS \_\_\_\_\_  
0300-0500

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .5	≥ .36	≥ .2	
NO CEILING		35.9	37.4	39.3	40.8	40.8	41.7	41.7	41.7	41.7	42.2	42.2	42.2	42.2	42.2	43.7
IV 20000		37.4	38.8	40.8	42.7	42.7	43.7	43.7	43.7	43.7	44.2	44.2	44.2	44.2	44.2	45.6
IV 18000		37.4	38.8	40.8	42.7	42.7	43.7	43.7	43.7	43.7	44.2	44.2	44.2	44.2	44.2	45.6
IV 16000		37.4	38.8	40.8	42.7	42.7	43.7	43.7	43.7	43.7	44.2	44.2	44.2	44.2	44.2	45.6
IV 14000		37.4	38.8	40.8	42.7	42.7	43.7	43.7	43.7	43.7	44.2	44.2	44.2	44.2	44.2	45.6
IV 12000		37.4	38.8	40.8	42.7	42.7	43.7	43.7	43.7	43.7	44.2	44.2	44.2	44.2	44.2	45.6
IV 10000		37.9	39.3	41.3	43.2	43.2	44.2	44.2	44.2	44.2	44.7	44.7	44.7	44.7	44.7	46.1
IV 9000		38.8	40.3	42.2	44.2	44.2	45.1	45.1	45.1	45.1	45.6	45.6	45.6	45.6	45.6	47.1
IV 8000		41.7	43.7	45.6	48.1	48.1	49.0	49.0	49.0	49.0	49.5	49.5	49.5	49.5	49.5	51.0
IV 7000		43.2	45.1	47.1	49.5	49.5	50.5	50.5	50.5	50.5	51.0	51.0	51.0	51.0	51.0	52.4
IV 6000		44.7	46.6	48.5	51.0	51.0	51.9	51.9	51.9	51.9	52.4	52.4	52.4	52.4	52.4	53.9
IV 5000		47.6	49.5	51.5	53.9	53.9	54.9	54.9	54.9	54.9	55.3	55.3	55.3	55.3	55.3	56.8
IV 4500		48.1	50.5	52.4	54.9	54.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	57.8
IV 4000		51.5	54.4	56.8	59.2	59.2	60.2	60.2	60.2	60.2	60.7	60.7	60.7	60.7	60.7	62.1
IV 3500		55.8	59.2	61.7	64.1	64.1	65.5	65.5	65.5	65.5	66.0	66.0	66.0	66.0	66.0	67.5
IV 3000		59.7	63.1	66.5	69.4	69.4	70.9	70.9	70.9	70.9	71.4	71.4	71.4	71.4	71.4	72.8
IV 2500		63.6	67.5	71.4	74.3	74.3	75.7	75.7	75.7	75.7	76.2	76.2	76.2	76.2	76.2	77.7
IV 2000		67.0	71.4	75.2	78.2	78.2	79.6	79.6	80.1	80.1	80.6	80.6	80.6	80.6	80.6	82.0
IV 1800		68.4	73.3	77.2	80.6	81.1	82.0	82.0	82.2	82.2	82.8	82.8	83.0	83.0	83.0	84.5
IV 1500		69.9	74.8	80.1	84.5	85.0	85.9	85.9	86.4	86.4	86.9	86.9	86.9	86.9	86.9	88.3
IV 1200		70.4	76.7	82.0	87.4	88.3	89.8	89.8	90.3	90.3	90.8	90.8	90.8	90.8	90.8	92.2
IV 1000		70.4	76.7	82.0	87.4	88.3	89.8	89.8	90.3	90.3	90.8	90.8	90.8	90.8	90.8	92.7
IV 900		70.4	76.7	82.0	87.4	88.3	89.8	89.8	90.3	90.3	90.8	90.8	90.8	90.8	90.8	94.2
IV 800		70.4	76.7	82.0	87.4	88.3	89.8	89.8	90.3	90.3	90.8	90.8	90.8	90.8	90.8	95.6
IV 700		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	97.1
IV 600		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	97.1
IV 500		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	98.5
IV 400		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	100.0
IV 300		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	100.0
IV 200		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	100.0
IV 100		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	100.0
IV 0		70.4	76.7	82.0	88.3	89.8	91.3	91.3	91.7	91.7	92.2	92.2	92.2	92.2	92.2	100.0

TOTAL NUMBER OF OBSERVATIONS 206

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

26197 BAB TOLZ GERMANY AAF

65-70

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0600-0800  
 HOURS LT

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/8	≥ 1/2	≥ 1/4	> 0	
NO CEILING																
IV 20000	41.2	42.1	43.3	43.4	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.3	44.3	44.3
IV 18000	45.2	46.2	47.3	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.3	48.3	48.3
IV 16000	45.2	46.2	47.3	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.3	48.3	48.3
IV 14000	45.4	46.4	47.5	48.1	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.5	48.5	48.5
IV 12000	45.4	46.4	47.5	48.1	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.5	48.5	48.5
IV 10000	47.1	48.1	49.2	49.8	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.2	50.2	50.2
IV 9000	48.1	49.0	50.2	50.8	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.1	51.1	51.1
IV 8000	52.7	53.6	54.8	55.4	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.7
IV 7000	53.8	54.8	55.9	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.9	56.9	56.9
IV 6000	55.4	56.3	57.5	58.0	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.4	58.4	58.4
IV 5000	58.6	59.6	60.7	61.3	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.7	61.7	61.7
IV 4500	59.2	60.3	61.9	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8	62.8	62.8
IV 4000	61.7	62.8	64.4	64.9	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.5	65.5	65.5
IV 3500	63.6	64.8	66.3	66.9	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6
IV 3000	67.8	69.0	70.9	71.5	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.2	72.2	72.2
IV 2500	71.8	73.0	74.9	75.5	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2
IV 2000	75.3	77.0	78.9	79.7	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.7	80.7	80.7
IV 1800	76.4	78.7	80.7	81.4	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.4	82.4	82.4
IV 1500	78.4	81.2	84.1	85.4	85.8	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6	86.6
IV 1200	79.5	82.6	86.2	88.7	89.3	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.6	90.6	90.6
IV 1000	79.5	82.6	86.4	89.3	90.0	91.0	91.0	91.2	91.4	91.4	91.4	91.4	91.4	91.6	91.6	91.6
IV 900	79.5	82.6	86.4	90.0	91.0	92.3	92.3	92.7	92.9	92.9	92.9	92.9	92.9	93.1	93.1	93.1
IV 800	79.5	82.6	86.4	90.2	91.8	93.3	93.3	93.9	94.4	94.4	94.4	94.4	94.4	94.8	94.8	94.8
IV 700	79.5	82.8	86.6	90.6	92.5	94.6	94.6	95.4	96.6	96.6	96.6	96.6	96.6	96.9	96.9	96.9
IV 600	79.5	82.8	86.6	90.6	92.5	94.8	95.0	95.6	96.7	96.7	96.7	96.7	96.7	97.1	97.1	97.1
IV 500	79.7	83.1	87.0	91.2	93.1	95.8	96.4	96.9	98.3	98.3	98.3	98.3	98.3	98.7	98.7	98.7
IV 400	79.7	83.1	87.2	91.4	93.7	96.6	97.3	97.9	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 300	79.7	83.1	87.2	91.4	93.7	96.6	97.3	97.9	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0
IV 200	79.7	83.1	87.2	91.4	93.7	96.6	97.3	97.9	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0
IV 100	79.7	83.1	87.2	91.4	93.7	96.6	97.3	97.9	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0
IV 0	79.7	83.1	87.2	91.4	93.7	96.6	97.3	97.9	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 322

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAB TOLZ GERMANY AAF

62-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1950-1950

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 3/4	≥ 3/8	≥ 1/4	≥ 0
NO CEILING		38.7	39.5	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 20000		43.7	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
IVV 18000		43.7	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
IVV 16000		43.7	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
IVV 14000		43.9	44.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IVV 12000		44.1	44.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IVV 10000		47.1	47.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IVV 9000		48.5	49.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
IVV 8000		53.1	53.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IVV 7000		53.6	54.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
IVV 6000		55.6	56.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IVV 5000		58.4	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IVV 4500		60.2	61.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IVV 4000		62.8	63.8	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IVV 3500		65.9	66.9	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
IVV 3000		72.0	73.4	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IVV 2500		74.9	76.6	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IVV 2000		77.8	80.3	81.8	82.2	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IVV 1800		78.7	81.4	83.1	83.3	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IVV 1500		81.8	83.4	85.3	85.3	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IVV 1200		83.9	85.5	87.0	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IVV 1000		84.3	86.9	88.5	88.7	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 900		84.7	87.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IVV 800		85.2	87.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IVV 700		85.2	87.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IVV 600		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVV 500		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVV 400		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVV 300		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVV 200		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVV 100		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IVV 0		85.4	88.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8

TOTAL NUMBER OF OBSERVATIONS 522

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ ⅓	≥ ⅓	≥ ⅓	≥ ⅓
NO CEILING																
≥ 20000	37.1	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
IV 18000	41.4	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 16000	41.4	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 14000	41.4	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 12000	41.8	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
IV 10000	43.0	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
IV 9000	44.5	44.7	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
IV 8000	47.5	47.7	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
IV 7000	48.4	48.6	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 6000	50.0	50.2	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 5000	51.8	52.0	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 4500	54.9	55.1	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 4000	57.8	58.0	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
IV 3500	63.5	64.1	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 3000	71.9	72.7	74.4	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 2500	80.5	81.8	83.8	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 2000	85.0	86.7	89.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1800	85.5	87.3	90.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 1500	86.5	88.9	92.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 1200	87.9	90.4	93.6	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1000	88.5	91.2	94.3	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 900	88.5	91.4	94.9	96.3	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 800	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 700	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 600	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 500	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 400	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 300	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 200	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 100	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 0	89.1	92.0	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2

TOTAL NUMBER OF OBSERVATIONS 512

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS LST

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/10	≥ ¼	≥ 0
NO CEILING																
IV 20000	34.7	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
IV 18000	41.0	41.0	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 16000	41.0	41.0	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 14000	41.0	41.0	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 12000	41.4	41.4	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
IV 10000	43.4	43.4	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 9000	43.2	43.2	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
IV 8000	47.9	47.9	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 7000	49.3	49.3	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 6000	51.2	51.2	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IV 5000	53.1	53.1	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 4500	55.8	56.0	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
IV 4000	60.6	60.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 3500	66.3	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
IV 3000	75.9	76.9	78.7	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV 2500	82.1	84.4	87.0	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 2000	83.6	88.2	90.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 1800	85.6	88.2	90.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 1500	86.4	89.0	92.1	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 1200	88.0	91.1	94.5	96.4	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1000	88.6	91.9	95.3	97.2	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 900	88.6	91.9	95.3	97.4	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 800	88.6	91.9	95.7	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	88.6	91.9	95.7	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	88.6	91.9	95.7	97.8	98.2	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 500	88.6	91.9	95.9	98.0	98.4	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	88.6	91.9	95.9	98.0	98.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	88.6	91.9	95.9	98.0	98.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	88.6	91.9	95.9	98.0	98.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	88.6	91.9	95.9	98.0	98.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	88.6	91.9	95.9	98.0	98.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 507

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

04197 BAD TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1800-2000

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ 0
NO CEILING	32.0	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
IV 20000	40.5	40.5	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
IV 18000	40.5	40.5	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
IV 16000	40.5	40.5	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
IV 14000	40.8	40.8	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
IV 12000	42.6	42.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
IV 10000	43.2	43.2	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
IV 7000	43.8	43.8	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 8000	48.5	48.5	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
IV 7000	49.4	49.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 6000	51.8	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 5000	53.3	53.3	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 4500	55.9	55.9	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
IV 4000	63.0	63.0	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IV 3500	68.9	68.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 3000	73.7	73.7	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IV 2500	83.4	83.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 2000	84.6	84.6	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV 1800	84.9	84.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 1500	86.1	86.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 1200	87.9	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1000	87.9	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 900	87.9	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 800	87.9	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 700	87.9	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 600	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 500	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 400	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 300	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 200	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 100	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 0	88.2	88.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7

TOTAL NUMBER OF OBSERVATIONS 338



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

67-68  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2.00-2.00  
NO. OF DAYS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .5	≥ .516	≥ .4	≥ .3
NO CEILING ≥ 20000	9.1	27.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 18000 16000	9.1	27.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 14000 12000	9.1	27.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 10000 9000	9.1	27.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 8000 7000	9.1	27.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 6000 5000	9.1	27.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 4500 4000	27.3	45.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 3500 3000	36.4	54.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 2500 2000	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800 1500	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200 1000	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900 800	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700 600	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500 400	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300 200	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100 0	63.6	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 11

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAF TOLZ GERMANY AAF

65-69

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

6400-0200

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 7/8	≥ 5/16	≥ 4	≥ 0
NO CEILING																
≥ 20000	38.5	42.1	43.0	44.3	44.3	44.3	44.3	45.7	46.2	47.1	48.0	48.0	49.3	50.2	50.7	52.0
IV 18000	38.9	42.5	43.4	44.8	44.8	44.8	44.8	46.2	46.6	47.3	48.4	48.4	49.8	50.7	51.1	52.5
IV 16000	38.9	42.5	43.4	44.3	44.8	44.8	44.8	46.2	46.6	47.3	48.4	48.4	49.8	50.7	51.1	52.5
IV 14000	38.9	42.5	43.4	44.8	44.8	44.8	44.8	46.2	46.6	47.3	48.4	48.4	49.8	50.7	51.1	52.5
IV 12000	38.9	42.5	43.4	44.8	44.8	44.8	44.8	46.2	46.6	47.3	48.4	48.4	49.8	50.7	51.1	52.5
IV 10000	40.3	43.9	44.8	46.2	46.2	46.2	47.3	48.0	48.4	49.3	49.8	49.8	51.1	52.0	52.5	53.8
IV 9000	40.7	44.3	45.2	46.6	46.6	46.6	48.0	48.4	49.3	50.2	50.2	50.2	51.6	52.5	52.9	54.3
IV 8000	42.1	46.2	47.1	48.4	48.4	48.4	49.3	50.2	51.1	52.0	52.0	53.4	54.3	54.8	56.1	57.5
IV 7000	43.4	47.5	48.4	49.8	49.8	49.8	51.1	51.6	52.5	53.4	53.4	54.8	55.7	56.1	57.5	58.4
IV 6000	45.7	49.8	50.7	52.0	52.0	52.0	53.4	53.8	54.8	55.7	55.7	57.0	57.9	58.4	59.7	60.3
IV 5000	49.3	53.4	54.8	56.1	56.1	56.1	57.9	58.4	59.3	60.2	60.2	60.2	61.5	62.4	62.9	64.3
IV 4500	51.1	55.2	56.6	57.9	57.9	57.9	59.3	60.2	60.6	61.5	62.4	62.4	63.8	64.7	65.2	66.5
IV 4000	55.7	59.7	61.1	62.4	62.4	62.4	63.8	65.6	66.1	67.0	67.9	67.9	69.2	70.1	70.6	71.9
IV 3500	59.3	63.8	65.2	66.5	66.5	66.5	67.9	69.7	70.1	71.0	71.9	71.9	73.3	74.2	74.7	76.0
IV 3000	63.8	68.3	71.0	72.4	72.4	72.4	73.8	75.6	76.0	76.9	77.8	77.8	79.2	80.1	80.5	81.9
IV 2500	66.1	71.9	74.7	76.9	76.9	76.9	77.8	80.1	80.5	81.4	82.4	82.4	83.7	84.6	85.1	86.4
IV 2000	68.8	75.1	77.8	80.1	80.1	80.1	81.0	83.3	83.7	84.6	85.5	85.5	86.9	87.8	88.2	89.6
IV 1800	69.2	76.9	81.0	84.2	84.2	84.2	86.0	88.2	88.7	89.6	90.5	90.5	91.9	92.8	93.2	94.6
IV 1500	69.7	77.4	81.4	85.1	85.1	85.1	87.8	90.5	91.0	91.9	92.8	92.8	94.1	95.0	95.5	96.8
IV 1200	69.7	77.4	81.4	85.1	85.1	85.1	87.8	90.5	91.0	91.9	92.8	92.8	94.1	95.0	95.5	96.8
IV 1000	69.7	77.4	81.4	85.1	85.1	85.1	87.8	90.5	91.0	91.9	92.8	92.8	94.1	95.0	95.5	96.8
IV 900	69.7	77.4	81.4	85.1	85.1	85.1	87.8	90.5	91.0	91.9	92.8	92.8	94.1	95.0	95.5	96.8
IV 800	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 700	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 600	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 500	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 400	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 300	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 200	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 100	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5
IV 0	70.1	77.8	81.9	85.5	85.5	85.5	88.0	90.0	92.8	93.2	94.1	94.6	95.9	96.8	97.2	98.5

TOTAL NUMBER OF OBSERVATIONS 221

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

J L  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

600-0900  
HOURS (LST)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ ¼	≥ 0
NO CEILING																
≥ 20000	39.6	42.6	43.2	43.4	43.4	43.8	44.0	44.2	44.2	44.4	44.4	44.4	44.4	44.4	44.6	45.0
18000	41.4	44.4	45.3	45.5	45.5	45.9	46.1	46.3	46.3	46.5	46.7	46.7	46.7	46.7	46.9	47.3
16000	41.4	44.4	45.3	45.5	45.5	45.9	46.1	46.3	46.3	46.5	46.7	46.7	46.7	46.7	46.9	47.3
14000	41.4	44.4	45.3	45.5	45.5	45.9	46.1	46.3	46.3	46.5	46.7	46.7	46.7	46.7	46.9	47.2
12000	41.4	44.4	45.3	45.5	45.5	45.9	46.1	46.3	46.3	46.5	46.7	46.7	46.7	46.7	46.9	47.2
10000	42.2	45.1	46.1	46.3	46.3	46.7	46.9	47.3	47.3	47.5	47.5	47.5	47.5	47.5	47.7	48.1
9000	42.4	45.3	46.3	46.3	46.3	46.8	47.1	47.3	47.3	47.7	47.7	47.7	47.7	47.7	47.9	48.3
8000	45.0	47.9	48.9	49.1	49.1	49.5	49.7	50.1	50.1	50.3	50.3	50.3	50.3	50.3	50.5	50.9
7000	46.1	49.1	50.1	50.5	50.5	51.1	51.3	51.9	51.9	52.1	52.1	52.1	52.1	52.1	52.3	52.7
6000	48.9	52.1	53.1	53.5	53.5	54.1	54.3	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.2	55.6
5000	53.3	56.4	57.8	58.2	58.2	58.8	59.2	59.6	59.6	59.8	59.8	59.8	59.8	59.8	60.0	60.4
4500	57.6	61.0	62.4	62.8	62.8	63.8	64.2	64.6	64.6	64.8	64.8	64.8	64.8	64.8	65.0	65.3
4000	61.8	65.3	66.7	67.3	67.3	68.3	68.9	69.3	69.3	69.5	69.5	69.5	69.5	69.5	69.7	70.1
3500	65.3	68.9	70.5	71.1	71.1	72.1	72.7	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.5	73.9
3000	68.7	72.7	75.4	76.4	76.4	77.6	78.0	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.8	79.2
2500	70.9	76.2	79.4	80.6	80.6	82.0	82.4	82.8	82.8	83.0	83.0	83.0	83.0	83.0	83.2	83.6
2000	73.1	78.8	82.0	83.4	83.4	85.0	85.5	85.9	85.9	86.1	86.2	86.2	86.2	86.2	86.3	86.9
1800	74.3	80.8	84.4	86.3	86.3	88.3	88.9	89.3	89.3	89.5	89.5	89.5	89.5	89.5	89.7	90.3
1500	75.2	82.3	87.5	90.5	90.5	92.9	93.5	93.9	93.9	94.1	94.2	94.2	94.2	94.2	94.5	94.9
1200	75.4	83.2	87.9	91.1	91.1	94.1	94.7	95.0	95.0	95.2	95.4	95.4	95.4	95.4	95.6	96.0
1000	75.6	83.4	88.3	91.5	91.5	95.0	95.6	96.0	96.0	96.4	96.6	96.6	96.6	96.6	96.8	97.2
900	75.8	83.4	88.3	91.5	91.5	95.2	96.0	96.4	96.4	96.8	97.0	97.0	97.0	97.0	97.2	97.6
800	76.0	84.0	89.1	92.3	92.3	96.6	97.4	98.0	98.0	98.8	99.0	99.0	99.0	99.0	99.2	99.6
700	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
600	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
500	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
400	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
300	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
200	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
100	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0
0	76.0	84.0	89.1	92.3	92.3	97.0	97.8	98.4	98.4	99.2	99.4	99.4	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 505

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAF TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

FORM 11-11  
NOV 65

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 0	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 2	
NO CEILING																
≥ 20000	42.8	43.8	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
18000	47.7	48.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
16000	47.7	48.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
14000	47.9	49.1	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
12000	47.9	49.1	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
10000	48.9	50.1	50.7	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
9000	48.9	50.9	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
8000	52.3	53.9	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
7000	53.7	55.6	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
6000	56.0	58.0	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
5000	59.4	61.4	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
4500	63.2	65.1	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
4000	66.5	68.5	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
3500	69.7	72.1	73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
3000	72.5	75.2	77.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
2500	78.4	82.2	84.0	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
2000	80.4	84.6	86.5	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
1800	81.6	85.9	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
1500	83.6	88.9	92.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
1200	84.4	90.3	94.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
1000	85.1	91.1	95.6	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
900	85.3	91.5	95.8	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
800	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
700	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
600	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
500	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
400	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
300	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
200	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
100	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
0	85.5	91.7	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 305

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197      BAP TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET.	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01
NO CEILING															
IV 20000	40.5	40.7	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
IV 18000	45.9	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
IV 16000	45.9	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
IV 14000	45.1	46.5	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
IV 12000	47.1	47.5	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
IV 10000	49.8	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IV 9000	52.1	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 8000	57.4	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 7000	61.6	62.0	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 6000	63.2	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 5000	64.5	64.9	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 4500	66.7	67.1	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 4000	70.0	70.5	70.7	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
IV 3500	74.0	74.6	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 3000	78.9	79.8	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 2500	87.6	88.8	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 2000	89.7	90.9	91.3	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 1800	89.7	91.3	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IV 1500	90.7	92.4	93.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1200	91.3	93.0	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1000	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 900	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 800	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 700	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 600	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 500	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 400	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 300	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 200	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 100	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 0	91.7	93.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5

TOTAL NUMBER OF OBSERVATIONS 484

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

DAF TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

1520-1700  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ ⅓	≥ 0	
NO CEILING	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 20000	40.6	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
IV 18000	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
IV 15000	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
IV 14000	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
IV 12000	41.4	41.4	41.5	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
IV 10000	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 9000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 8000	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
IV 7000	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 6000	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
IV 5000	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 4500	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 4000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 3500	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IV 3000	80.7	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 2500	88.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 2000	90.6	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1800	91.0	92.8	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 1500	91.9	94.3	94.5	94.7	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1200	93.0	95.8	96.1	96.3	96.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1000	93.2	96.1	96.3	96.5	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 900	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 800	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 700	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 600	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 500	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 400	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 300	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 200	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 100	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 0	93.9	96.3	96.5	96.7	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 456

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAW TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-2200  
PERIOD

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .2	≥ .16	≥ .1	≥ .05
NO CEILING		41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 20000		47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 18000		47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 16000		47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 14000		47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 12000		49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IV 10000		52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 9000		54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IV 8000		59.9	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 7000		63.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 6000		66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 5000		68.7	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 4500		72.0	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 4000		77.0	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 3500		82.9	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 3000		86.4	87.6	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 2500		91.2	92.6	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 2000		92.0	93.8	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1800		92.0	93.8	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1500		92.9	94.7	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1200		93.2	93.3	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 1000		93.5	93.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 900		93.5	93.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 800		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 700		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 600		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 500		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 400		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 300		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 200		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 100		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 0		93.5	93.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2

TOTAL NUMBER OF OBSERVATIONS 339

DATA PROCESSING DIVISION  
 USAF ETAC  
 AFR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

67  
YEARS

2  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS LST

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000																
IV 18000 IV 16000																
IV 14000 IV 12000																
IV 10000 IV 9000																
IV 8000 IV 7000		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 6000 IV 5000		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4500 IV 4000		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 3500 IV 3000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500 IV 2000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800 IV 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200 IV 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900 IV 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700 IV 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500 IV 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300 IV 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100 IV 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
 STATION

BAF TOLZ GERMANY AAF  
 STATION NAME

67  
 YEARS

6  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0000-020  
 HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 3/4	≥ 3/8	≥ 1/2	≥ 0
NO CEILING				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
≥ 20000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 18000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 14000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 12000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 10000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 9000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 8000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 7000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 6000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 5000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 4500				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 4000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 3500				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 3000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 2500				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 2000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 1800				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 1500				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 1200				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 1000				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 900				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 800				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 700				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 600				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 500				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 400				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 300				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 200				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 100				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100
IV 0				100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100	0100

TOTAL NUMBER OF OBSERVATIONS 2

DATA PROCESSING DIVISION  
USAF BTAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAW TOLZ GERMANY AAF

65-69

6 MONTHS  
0300-0500 HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ ¼	≥ 0
NO CEILING																
≥ 20000	23.5	23.9	25.9	26.7	26.7	28.4	28.4	26.8	30.5	30.9	30.9	31.3	32.9	32.9	32.9	35.0
18000	26.3	26.7	28.8	29.6	29.6	31.3	31.3	31.7	33.3	33.7	33.7	34.2	35.8	35.8	37.9	37.9
16000	26.3	26.7	28.8	29.6	29.6	31.3	31.3	31.7	33.3	33.7	33.7	34.2	35.8	35.8	37.9	37.9
14000	26.3	26.7	28.8	29.6	29.6	31.3	31.3	31.7	33.3	33.7	33.7	34.2	35.8	35.8	37.9	37.9
12000	26.7	27.2	29.2	30.0	30.0	31.7	31.7	32.1	33.7	34.2	34.2	34.6	36.2	36.2	38.3	38.3
10000	29.6	30.0	32.1	32.9	33.3	33.3	33.4	35.4	35.8	37.4	37.9	38.3	39.9	39.9	42.0	42.0
9000	30.5	31.3	33.7	34.6	35.0	37.0	37.0	37.4	39.1	39.5	39.5	39.9	41.6	41.6	43.6	43.6
8000	34.6	35.8	38.3	39.5	39.9	42.0	42.0	42.4	44.0	44.4	44.4	44.9	46.5	46.5	48.5	48.5
7000	37.9	39.9	42.8	44.0	44.4	46.5	46.5	46.9	48.6	49.0	49.0	49.4	51.0	51.0	53.1	53.1
6000	40.7	42.8	45.7	46.9	47.3	49.4	49.4	49.8	51.4	51.9	51.9	52.3	53.9	53.9	56.0	56.0
5000	43.2	46.5	49.4	50.6	51.0	53.5	53.9	54.3	56.0	56.4	56.4	56.8	58.4	58.4	60.5	60.5
4500	45.3	48.6	51.4	52.7	53.1	55.6	56.4	56.8	58.4	58.8	58.8	59.2	60.9	60.9	63.0	63.0
4000	49.4	53.1	56.4	57.6	58.0	60.5	61.3	61.7	63.8	64.2	64.2	64.6	66.3	66.3	68.3	68.3
3500	51.9	55.6	59.3	60.5	60.9	63.4	64.2	64.6	66.7	67.1	67.1	67.5	69.1	69.1	71.2	71.2
3000	58.0	63.4	67.1	68.3	68.7	71.2	72.0	72.4	74.5	74.9	74.9	75.3	77.0	77.0	79.0	79.0
2500	61.3	67.5	72.0	73.7	74.1	76.6	77.4	77.8	79.9	80.2	80.2	80.7	82.3	82.3	84.4	84.4
2000	63.8	70.4	75.3	77.0	77.4	80.2	81.1	81.5	83.5	84.0	84.0	84.4	86.0	86.0	88.1	88.1
1800	64.2	70.8	75.7	77.4	77.8	80.7	81.5	81.9	84.0	84.4	84.4	84.8	86.4	86.4	88.5	88.5
1500	66.7	73.3	78.2	79.8	80.2	83.5	84.4	84.8	87.7	88.1	88.1	88.5	90.1	90.1	92.2	92.2
1200	66.7	73.3	78.2	79.8	80.2	83.5	84.4	84.8	87.7	88.1	88.1	88.5	90.1	90.1	92.2	92.2
1000	67.1	73.7	79.0	81.1	81.5	85.2	86.4	86.8	89.7	90.1	90.1	90.5	92.2	92.2	94.7	94.7
900	67.5	74.1	79.4	81.5	81.9	85.0	87.2	87.7	90.5	90.9	90.9	91.4	93.0	93.0	95.5	95.5
800	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
700	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
600	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
500	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
400	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
300	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
200	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
100	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	96.3
0	67.9	74.5	80.2	82.3	82.7	86.8	88.1	88.5	91.4	91.8	91.8	92.3	93.8	93.8	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS 243

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 STATION BAQ TDLZ GERMANY AAF STATION NAME

65-70 YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2600-0800 HOURS U.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0
NO CEILING	28.8	30.3	33.1	35.0	35.4	36.1	36.3	36.5	36.9	37.3	37.6	37.6	37.8	38.0	38.1
IV 20000	32.2	33.9	36.5	38.4	38.8	39.5	39.7	39.9	40.3	40.6	41.0	41.0	41.2	41.4	42.1
IV 18000	32.2	33.9	36.5	38.4	38.8	39.5	39.7	39.9	40.3	40.6	41.0	41.0	41.2	41.4	42.1
IV 16000	32.2	33.9	36.5	38.4	38.8	39.5	39.7	39.9	40.3	40.6	41.0	41.0	41.2	41.4	42.1
IV 14000	32.8	34.5	37.1	39.0	39.3	40.1	40.3	40.4	40.8	41.2	41.6	41.6	41.8	41.9	42.7
IV 12000	32.8	34.5	37.1	39.0	39.3	40.1	40.3	40.4	40.8	41.2	41.6	41.6	41.8	41.9	42.7
IV 10000	35.0	36.7	39.3	41.2	41.6	42.2	42.5	42.7	43.2	43.6	44.0	44.0	44.4	44.6	45.3
IV 9000	35.0	36.7	39.3	41.2	41.6	42.2	42.5	42.7	43.2	43.6	44.0	44.0	44.4	44.6	45.3
IV 8000	41.6	44.0	46.8	49.7	49.6	50.4	50.6	50.9	51.5	51.9	52.2	52.2	52.5	52.8	53.6
IV 7000	43.9	46.4	49.3	51.5	52.1	52.6	53.0	53.4	53.9	54.3	54.7	54.7	55.1	55.2	56.0
IV 6000	45.3	48.7	51.7	53.9	54.5	55.2	55.4	55.8	56.4	56.7	57.3	57.3	57.7	57.9	58.6
IV 5000	48.5	51.9	54.9	57.1	57.7	58.4	58.6	59.0	59.6	59.9	60.5	60.5	60.9	61.0	61.8
IV 4500	50.0	53.4	56.7	59.0	59.6	60.3	60.7	61.0	61.6	62.2	62.7	62.7	63.1	63.3	64.0
IV 4000	54.9	58.4	61.8	64.0	64.6	65.7	65.9	66.3	66.9	67.4	68.0	68.0	68.4	68.5	69.3
IV 3500	56.9	60.3	63.9	66.1	66.9	68.0	68.2	68.5	69.1	69.7	70.2	70.2	70.6	70.8	71.9
IV 3000	60.5	64.6	68.7	71.3	72.1	73.2	73.4	73.8	74.3	74.9	75.3	75.3	75.8	76.0	76.8
IV 2500	64.2	69.1	73.6	76.8	77.5	78.7	78.8	79.2	79.8	80.3	80.9	80.9	81.3	81.5	82.2
IV 2000	67.0	72.7	77.9	81.1	81.8	83.0	83.1	83.5	84.1	84.6	85.2	85.2	85.6	85.8	86.5
IV 1800	67.8	73.6	78.8	82.0	82.8	84.1	84.3	84.6	85.2	85.8	86.3	86.3	86.7	86.9	87.6
IV 1500	68.5	75.3	80.7	84.3	85.0	86.3	86.9	87.3	87.8	88.4	89.0	89.0	89.3	89.5	90.3
IV 1200	69.8	77.0	82.8	86.9	87.6	89.3	90.4	90.8	91.4	91.9	92.5	92.5	92.9	93.1	93.8
IV 1000	69.7	77.3	83.1	87.3	88.0	90.0	91.2	91.6	92.1	92.7	93.3	93.3	93.6	93.8	94.6
IV 900	69.9	77.5	83.3	87.5	88.2	90.4	91.6	91.9	92.7	93.3	93.8	93.8	94.2	94.4	95.1
IV 800	69.9	77.7	83.5	87.6	88.4	90.8	92.1	92.7	93.4	94.0	94.6	94.6	94.9	95.1	95.9
IV 700	69.9	77.7	83.5	87.6	88.4	90.8	92.1	92.7	93.4	94.0	94.6	94.6	94.9	95.1	95.9
IV 600	69.9	77.7	83.5	87.6	88.4	90.8	92.1	92.7	93.4	94.0	94.6	94.6	94.9	95.1	95.9
IV 500	69.9	77.7	83.5	87.6	88.4	91.0	93.4	94.2	95.3	96.1	96.6	96.6	97.0	97.2	97.9
IV 400	69.9	77.7	83.5	87.6	88.4	91.2	93.6	94.4	96.1	96.8	97.4	97.4	97.8	97.9	99.3
IV 300	69.9	77.7	83.5	87.6	88.4	91.2	93.6	94.6	96.4	97.2	97.8	97.8	98.3	98.3	99.8
IV 200	69.9	77.7	83.5	87.6	88.4	91.2	93.6	94.6	96.4	97.2	97.8	97.8	98.3	98.3	100.0
IV 100	69.9	77.7	83.5	87.6	88.4	91.2	93.6	94.6	96.4	97.2	97.8	97.8	98.3	98.3	100.0
IV 0	69.9	77.7	83.5	87.6	88.4	91.2	93.6	94.6	96.4	97.2	97.8	97.8	98.3	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 534

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

6

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ 0.75	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0	
NO CEILING		32.6	33.3	35.0	36.0	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	
≥ 20000		28.4	29.3	31.8	31.9	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	
IVV 18000		38.4	39.3	41.8	41.9	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	
IVV 16000		38.4	39.3	41.8	41.9	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	
IVV 14000		38.6	39.5	41.9	42.1	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	
IVV 12000		38.8	39.7	42.1	42.2	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	
IVV 10000		42.9	43.8	46.3	46.4	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	
IVV 9000		44.0	44.9	47.4	47.6	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	
IVV 8000		48.5	49.4	51.9	52.6	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	
IVV 7000		52.6	53.9	56.4	57.1	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	
IVV 6000		54.3	55.8	58.4	59.2	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	
IVV 5000		56.4	57.9	60.5	61.2	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	
IVV 4500		57.1	58.6	61.2	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	
IVV 4000		60.2	61.8	64.4	65.2	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	
IVV 3500		64.4	66.5	68.1	70.0	71.0	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	
IVV 3000		68.0	70.6	73.6	74.7	75.8	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	
IVV 2500		71.2	74.2	77.3	78.7	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
IVV 2000		73.6	77.5	80.7	82.0	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	
IVV 1800		74.9	79.0	82.4	83.7	84.8	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
IVV 1500		76.8	82.2	86.1	87.5	88.8	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	
IVV 1200		77.2	83.0	87.5	89.1	90.8	91.2	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	
IVV 1000		77.3	83.3	88.0	89.9	91.6	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
IVV 900		77.7	83.7	88.4	90.4	92.1	93.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	
IVV 800		77.7	83.9	89.0	91.0	92.7	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
IVV 700		77.9	84.1	89.1	91.4	93.1	94.8	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
IVV 600		77.9	84.1	89.3	91.6	93.4	95.7	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
IVV 500		77.9	84.1	89.3	91.9	93.8	96.1	97.9	98.5	98.5	98.5	98.5	98.5	98.5	98.5	
IVV 400		77.9	84.1	89.5	91.9	93.8	96.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 300		77.9	84.1	89.5	91.9	93.8	96.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 200		77.9	84.1	89.5	91.9	93.8	96.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 100		77.9	84.1	89.5	91.9	93.8	96.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 0		77.9	84.1	89.5	91.9	93.8	96.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	

TOTAL NUMBER OF OBSERVATIONS 534

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

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

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 7	≥ 5/16	≥ 4	≥ 0
NO CEILING																
IV 20000	34.2	34.7	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
IV 18000	38.8	40.2	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
IV 16000	38.8	40.2	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
IV 14000	38.8	40.2	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
IV 12000	38.8	40.2	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
IV 10000	41.3	42.7	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
IV 9000	42.5	42.8	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 8000	47.3	48.8	50.6	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 7000	50.2	52.3	54.1	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 6000	52.5	54.8	56.6	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 5000	55.6	57.9	59.7	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
IV 4500	56.9	59.3	61.0	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
IV 4000	60.0	62.5	64.3	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 3500	65.6	68.3	70.3	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 3000	69.1	72.0	74.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 2500	73.2	76.4	79.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
IV 2000	76.3	79.7	84.0	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 1800	77.4	81.7	85.9	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 1500	78.2	82.8	87.5	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1200	79.3	85.3	90.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1000	80.3	86.3	92.1	94.2	95.0	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 900	80.5	86.7	92.5	94.8	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 800	80.7	87.1	93.2	95.6	96.5	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 700	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 600	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 500	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 400	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 300	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 200	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 100	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 0	80.7	87.1	93.2	95.6	96.7	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3

TOTAL NUMBER OF OBSERVATIONS 518

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-70

AUG  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700  
 HOURS U.T.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 1/5 16	≥ ¼	≥ 0
NO CEILING																
IV 20000	33,6	34,2	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0	35,0
IV 18000	42,2	43,2	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0
IV 16000	42,2	43,2	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0
IV 14000	42,2	43,2	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0	44,0
IV 12000	42,8	43,8	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6	44,6
IV 10000	43,2	44,2	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0	45,0
IV 9000	45,4	46,4	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2	47,2
IV 8000	50,9	51,9	53,2	53,4	53,4	53,4	53,4	53,4	53,4	53,4	53,4	53,4	53,4	53,4	53,4	53,4
IV 7000	53,4	54,4	55,6	55,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8
IV 6000	56,0	57,2	58,5	58,7	58,7	58,7	58,7	58,7	58,7	58,7	58,7	58,7	58,7	58,7	58,7	58,7
IV 5000	59,3	60,9	62,1	62,3	62,3	62,3	62,3	62,3	62,3	62,3	62,3	62,3	62,3	62,3	62,3	62,3
IV 4500	61,5	62,9	64,2	64,4	64,4	64,4	64,4	64,4	64,4	64,4	64,4	64,4	64,4	64,4	64,4	64,4
IV 4000	65,8	67,2	69,0	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2
IV 3500	71,5	73,3	75,2	75,4	75,4	75,4	75,4	75,4	75,4	75,4	75,4	75,4	75,4	75,4	75,4	75,4
IV 3000	77,2	80,0	82,1	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3	82,3
IV 2500	80,0	83,3	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
IV 2000	82,9	86,8	89,4	89,6	89,6	89,6	89,6	89,6	89,6	89,6	89,6	89,6	89,6	89,6	89,6	89,6
IV 1800	84,1	88,0	90,6	90,8	90,8	90,8	90,8	90,8	90,8	90,8	90,8	90,8	90,8	90,8	90,8	90,8
IV 1500	84,9	89,4	92,3	92,7	92,9	92,9	92,9	92,9	92,9	92,9	92,9	92,9	92,9	92,9	92,9	92,9
IV 1200	86,4	91,0	94,1	95,3	95,3	95,3	95,3	95,3	95,3	95,3	95,3	95,3	95,3	95,3	95,3	95,3
IV 1000	86,8	91,4	94,9	96,3	96,3	96,3	96,3	96,3	96,3	96,3	96,3	96,3	96,3	96,3	96,3	96,3
IV 900	87,0	91,9	95,3	97,1	97,6	97,6	97,6	97,6	97,6	97,6	97,6	97,6	97,6	97,6	97,6	97,6
IV 800	87,0	92,3	96,1	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
IV 700	87,0	92,3	96,1	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
IV 600	87,0	92,3	96,1	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
IV 500	87,0	92,3	96,3	98,2	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6
IV 400	87,0	92,3	96,3	98,2	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6
IV 300	87,0	92,3	96,3	98,2	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6
IV 200	87,0	92,3	96,3	98,2	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6
IV 100	87,0	92,3	96,3	98,2	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6
IV 0	87,0	92,3	96,3	98,2	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6	98,6

TOTAL NUMBER OF OBSERVATIONS 491

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BA3 TOLZ GERMANY AAF

65-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS L.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .5	≥ .36	≥ .3
NO CEILING															
≥ 20000	32.8	33.3	34.4	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IVV 18000	41.6	42.4	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IVV 16000	41.9	42.7	43.7	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IVV 14000	41.9	42.7	43.7	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IVV 12000	42.4	43.2	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IVV 10000	44.0	44.8	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IVV 9000	46.1	46.9	48.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
IVV 8000	50.1	50.9	52.0	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IVV 7000	52.9	53.6	54.9	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IVV 6000	54.7	55.5	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IVV 5000	59.2	60.0	61.3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IVV 4500	62.9	64.0	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 4000	67.2	69.1	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IVV 3500	74.4	77.3	79.2	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IVV 3000	77.6	81.1	83.2	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IVV 2500	80.5	84.3	86.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IVV 2000	81.3	85.2	88.8	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IVV 1800	82.1	86.1	89.6	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IVV 1500	83.7	87.7	92.0	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IVV 1200	84.0	88.0	92.3	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IVV 1000	84.3	88.3	93.1	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IVV 900	84.5	88.5	93.3	95.2	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IVV 800	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IVV 700	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IVV 600	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IVV 500	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IVV 400	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 300	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 200	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 100	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 0	84.5	88.5	93.6	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS 375

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 STATION 8AB TULZ GERMANY AAF

67-69 YEARS

26 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300 HOURS T. S. T.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .5	≥ .36	≥ .3	≥ .0
NO CEILING																
≥ 20000	20.0	20.0	26.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
IV 18000	26.7	26.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 16000	26.7	26.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 14000	26.7	26.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 12000	26.7	26.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 10000	26.7	26.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 9000	40.0	40.0	46.7	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
IV 8000	40.0	40.0	46.7	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
IV 7000	40.0	40.0	46.7	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
IV 6000	40.0	40.0	46.7	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
IV 5000	40.0	40.0	46.7	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
IV 4500	46.7	46.7	53.3	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 4000	53.3	53.3	60.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 3500	60.0	60.0	66.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 3000	66.7	66.7	73.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 2500	66.7	66.7	73.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 2000	66.7	73.3	80.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 1800	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	73.3	80.0	86.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 15



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197      BAD TOLZ GERMANY AAF

66-67,69

1000-0200

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.1	≥ 0	
NO CEILING	35.5	35.5	35.5	45.2	45.2	45.2	48.4	48.4	51.6	51.6	51.6	54.8	54.8	54.8	58.1	58.1
≥ 20000	35.5	35.5	38.7	48.4	48.4	48.4	51.6	51.6	54.8	54.8	54.8	58.1	58.1	58.1	61.3	61.3
IVV 18000	35.5	35.5	38.7	48.4	48.4	48.4	51.6	51.6	54.8	54.8	54.8	58.1	58.1	58.1	61.3	61.3
IVV 16000	35.5	35.5	38.7	48.4	48.4	48.4	51.6	51.6	54.8	54.8	54.8	58.1	58.1	58.1	61.3	61.3
IVV 14000	35.5	35.5	38.7	48.4	48.4	48.4	51.6	51.6	54.8	54.8	54.8	58.1	58.1	58.1	61.3	61.3
IVV 12000	35.5	35.5	38.7	48.4	48.4	48.4	51.6	51.6	54.8	54.8	54.8	58.1	58.1	58.1	61.3	61.3
IVV 10000	35.5	38.7	41.9	51.6	51.6	51.6	54.8	54.8	58.1	58.1	58.1	61.3	61.3	61.3	64.5	64.5
IVV 9000	35.5	38.7	41.9	51.6	51.6	51.6	54.8	54.8	58.1	58.1	58.1	61.3	61.3	61.3	64.5	64.5
IVV 8000	35.5	31.7	41.9	51.6	51.6	51.6	54.8	54.8	58.1	58.1	58.1	61.3	61.3	61.3	64.5	64.5
IVV 7000	38.7	41.9	45.2	54.8	54.8	54.8	58.1	58.1	61.3	61.3	61.3	64.5	64.5	64.5	67.7	67.7
IVV 6000	45.2	48.4	51.6	61.3	61.3	61.3	64.5	64.5	67.7	67.7	67.7	71.0	71.0	71.0	74.2	74.2
IVV 5000	45.2	48.4	51.6	61.3	61.3	61.3	64.5	64.5	67.7	67.7	67.7	71.0	71.0	71.0	74.2	74.2
IVV 4500	45.2	48.4	51.6	61.3	61.3	61.3	64.5	64.5	67.7	67.7	67.7	71.0	71.0	71.0	74.2	74.2
IVV 4000	45.2	48.4	51.6	61.3	61.3	61.3	64.5	64.5	67.7	67.7	67.7	71.0	71.0	71.0	74.2	74.2
IVV 3500	45.2	48.4	51.6	61.3	61.3	61.3	64.5	64.5	67.7	67.7	67.7	71.0	71.0	71.0	74.2	74.2
IVV 3000	45.2	48.4	51.6	64.5	64.5	64.5	67.7	67.7	71.0	71.0	71.0	74.2	74.2	74.2	77.4	77.4
IVV 2500	45.2	51.6	58.1	71.0	71.0	71.0	74.2	74.2	77.4	77.4	77.4	80.6	80.6	80.6	83.9	83.9
IVV 2000	45.2	51.6	58.1	71.0	71.0	71.0	74.2	74.2	77.4	77.4	77.4	80.6	80.6	80.6	83.9	83.9
IVV 1800	45.2	51.6	58.1	71.0	71.0	71.0	74.2	74.2	77.4	77.4	77.4	80.6	80.6	80.6	83.9	83.9
IVV 1500	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 1200	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 1000	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 900	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 800	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 700	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 600	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 500	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 400	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 300	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 200	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 100	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3
IVV 0	48.4	54.8	64.5	77.4	77.4	77.4	80.6	80.6	83.9	83.9	83.9	87.1	87.1	87.1	90.3	90.3

TOTAL NUMBER OF OBSERVATIONS 31

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 BAB TOLZ GERMANY AAF

65-69

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

030-0500  
HOURS TL

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 0	
NO CEILING															
≥ 20000	25.4	27.5	30.5	30.9	30.9	33.1	34.7	35.2	36.9	39.4	40.3	42.8	47.0	48.3	49.2
IV 18000	26.7	29.2	33.1	33.5	33.5	35.6	38.1	38.6	40.3	42.8	43.6	46.2	50.4	51.7	52.5
IV 16000	26.7	29.2	33.1	33.5	33.5	35.6	38.1	38.6	40.3	42.8	43.6	46.2	50.4	51.7	52.5
IV 14000	26.7	29.2	33.1	33.5	33.5	35.6	38.1	38.6	40.3	42.8	43.6	46.2	50.4	51.7	52.5
IV 12000	26.7	29.2	33.1	33.5	33.5	35.6	38.1	38.6	40.3	42.8	43.6	46.2	50.4	51.7	52.5
IV 10000	26.7	29.2	33.1	33.5	33.5	35.6	38.1	38.6	40.3	42.8	44.1	46.6	50.8	52.1	53.0
IV 9000	29.2	31.8	35.6	36.0	36.0	38.1	40.7	41.1	42.8	45.3	46.6	49.2	53.4	54.7	55.8
IV 8000	31.8	36.0	39.8	40.3	40.3	43.6	46.2	46.6	48.3	50.8	52.1	54.7	58.9	60.2	61.0
IV 7000	33.1	37.3	41.1	42.4	42.4	45.8	48.3	48.7	50.4	53.0	54.2	56.8	61.0	62.2	63.1
IV 6000	35.2	39.4	43.2	44.5	44.5	47.9	50.4	50.8	52.5	55.1	56.4	58.9	63.1	64.4	65.3
IV 5000	36.0	40.3	44.1	45.3	45.3	48.7	51.3	51.7	53.4	55.9	57.2	59.7	64.0	65.3	66.1
IV 4500	37.3	41.5	45.3	46.6	46.6	50.0	52.5	53.0	54.7	57.2	58.5	61.0	65.3	66.5	67.4
IV 4000	39.4	44.3	48.3	49.6	49.6	53.0	55.5	55.9	57.6	60.3	61.4	64.0	68.2	69.5	70.3
IV 3500	42.8	48.3	52.5	53.8	53.8	57.2	59.7	60.2	61.9	64.4	65.7	68.2	72.5	73.7	74.6
IV 3000	46.6	52.1	57.2	58.5	58.5	62.2	64.8	65.3	66.9	69.5	70.8	73.3	77.5	78.8	79.7
IV 2500	47.9	54.2	59.3	61.4	61.4	65.3	67.8	68.2	69.9	72.5	73.7	76.3	80.5	81.8	82.6
IV 2000	48.3	55.9	61.0	64.0	64.0	68.2	70.8	71.2	72.9	75.4	76.7	79.2	83.5	84.7	85.6
IV 1800	48.3	55.9	61.4	64.8	64.8	69.2	71.6	72.0	73.7	76.3	77.5	80.1	84.3	85.6	86.4
IV 1500	48.3	55.9	61.4	64.8	64.8	69.2	71.6	72.0	73.7	76.3	77.5	80.1	84.3	85.6	86.4
IV 1200	48.7	56.8	62.3	65.7	65.7	71.2	74.6	75.0	76.7	79.2	80.5	83.1	87.3	88.6	89.4
IV 1000	48.7	56.8	62.3	65.7	65.7	71.2	74.6	75.0	76.7	79.2	80.5	83.1	87.3	88.6	89.4
IV 900	48.7	56.8	62.3	65.7	65.7	71.2	74.6	75.0	76.7	79.2	80.5	83.1	87.3	88.6	89.4
IV 800	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 700	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 600	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 500	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 400	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 300	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 200	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 100	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0
IV 0	49.2	57.2	63.6	67.8	67.8	73.8	77.2	77.7	79.4	81.9	83.2	85.8	89.9	91.2	92.0

TOTAL NUMBER OF OBSERVATIONS 236

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

SPF  
UNIT

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

060-0600  
TIME

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .5	≥ .45	≥ .4	
NO CEILING																
≥ 20000	34.0	35.5	37.0	37.9	38.5	39.9	40.1	40.3	41.1	41.9	42.1	42.7	43.7	44.7	45.5	
IV 18000	37.7	39.3	40.7	41.7	42.1	43.7	44.1	44.3	45.5	46.2	46.4	47.0	48.4	49.4	50.4	
IV 16000	37.7	39.3	40.7	41.7	42.1	43.7	44.1	44.3	45.5	46.2	46.4	47.0	48.4	49.4	50.4	
IV 14000	37.7	39.3	40.7	41.7	42.1	43.7	44.1	44.3	45.5	46.2	46.4	47.0	48.4	49.4	50.4	
IV 12000	38.5	40.1	41.5	42.5	42.9	44.5	44.9	45.1	46.2	47.0	47.2	47.8	49.2	50.2	51.2	
IV 10000	39.7	41.5	42.9	43.9	44.3	45.8	46.2	46.4	47.6	48.4	48.6	49.2	50.6	51.6	52.8	
IV 9000	40.3	42.1	43.5	44.5	44.9	46.4	46.8	47.0	48.2	49.0	49.2	49.8	51.2	52.2	53.4	
IV 8000	43.1	45.7	47.2	48.8	49.8	50.8	51.2	51.4	52.6	53.6	54.0	54.5	55.9	56.9	58.1	
IV 7000	45.1	48.2	50.0	52.0	52.4	54.2	54.5	54.7	55.9	56.9	57.3	57.9	59.3	60.3	61.5	
IV 6000	46.6	50.0	51.8	53.8	54.2	55.9	56.3	56.5	57.7	58.7	59.1	59.7	61.1	62.1	63.2	
IV 5000	49.8	53.2	54.9	56.9	57.3	59.1	59.5	59.7	60.9	61.9	62.3	62.8	64.2	65.2	66.4	
IV 4500	51.0	54.3	56.1	58.1	58.5	60.3	60.7	60.9	62.1	63.0	63.4	64.0	65.4	66.4	67.6	
IV 4000	52.8	56.7	58.5	60.5	60.9	62.6	63.0	63.2	64.4	65.4	65.8	66.4	67.8	68.8	70.0	
IV 3500	55.5	60.1	61.9	64.0	64.4	66.2	66.6	67.8	68.8	69.2	69.6	70.2	71.6	72.6	73.7	
IV 3000	59.7	64.4	66.4	68.4	69.8	71.7	72.1	72.3	73.5	74.5	75.5	76.1	77.5	78.5	79.7	
IV 2500	63.1	66.8	69.0	71.9	72.3	74.7	75.1	75.3	76.5	77.5	78.5	79.1	80.4	81.4	82.9	
IV 2000	63.4	68.2	71.7	75.5	75.9	78.5	78.9	79.1	80.6	81.6	82.2	82.8	84.2	85.2	86.6	
IV 1800	63.4	68.2	71.7	75.5	75.9	78.5	78.9	79.1	80.6	81.6	82.2	82.8	84.2	85.2	86.6	
IV 1500	64.5	69.6	74.3	78.9	79.2	82.0	82.4	82.6	84.0	85.0	85.6	86.2	87.6	88.6	90.0	
IV 1200	65.1	70.2	74.9	79.8	80.2	83.0	83.4	83.6	85.0	86.0	86.6	87.2	88.6	89.6	91.0	
IV 1000	65.4	70.8	75.7	80.6	81.0	84.0	84.4	84.6	86.0	87.0	87.6	88.2	89.6	90.6	92.0	
IV 900	65.6	70.9	75.7	80.6	81.0	84.0	84.4	84.6	86.0	87.0	87.6	88.2	89.6	90.6	92.0	
IV 800	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 700	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 600	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 500	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 400	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 300	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 200	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 100	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	
IV 0	65.6	71.1	76.3	81.2	81.6	84.6	85.0	85.2	86.6	87.6	88.2	88.8	90.2	91.2	92.6	

TOTAL NUMBER OF OBSERVATIONS 506

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

64-76

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0200-1100  
HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES																	
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25		
NO CEILING	41.3	42.4	44.5	45.6	46.6	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.2	47.2	47.2	47.3
≥ 20000	47.2	48.7	51.1	52.3	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.8	53.8	53.8	54.0
18000	47.2	48.7	51.1	52.3	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.8	53.8	53.8	54.0
16000	47.2	48.7	51.1	52.3	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.8	53.8	53.8	54.0
14000	47.2	48.7	51.1	52.3	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.8	53.8	53.8	54.0
12000	47.2	48.7	51.1	52.3	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.8	53.8	53.8	54.0
10000	48.9	50.4	52.8	54.0	54.9	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.5	55.5	55.5	55.7
9000	49.4	50.9	53.4	54.5	55.5	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.1	56.1	56.1	56.3
8000	52.5	54.7	57.4	58.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.2	60.2	60.2	60.4
7000	54.9	57.2	59.8	61.2	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.7	62.7	62.7	62.9
6000	56.8	59.3	62.3	64.0	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.5	65.5	65.5	65.7
5000	58.3	60.8	63.8	65.5	66.5	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.2
4500	60.0	62.9	65.9	67.6	68.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.1	69.1	69.1	69.3
4000	62.9	66.3	69.3	71.2	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.7	72.7	72.7	72.9
3500	66.3	69.9	73.1	75.2	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.7	76.7	76.7	76.9
3000	69.7	73.9	77.3	79.9	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.6	81.6	81.6	81.8
2500	71.8	76.1	79.5	82.2	83.1	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.7	83.7	83.7	84.0
2000	72.9	77.3	81.3	84.1	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.2	85.2	85.2	85.5
1800	73.3	77.7	81.6	84.7	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.8	85.8	85.8	86.1
1500	74.4	78.8	82.7	86.7	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.2	88.2	88.2	88.5
1200	74.8	79.2	84.5	88.1	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.5	90.5	90.5	90.8
1000	74.6	79.2	84.5	88.1	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.5	90.5	90.5	90.8
900	74.8	79.4	84.8	88.4	89.8	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.9	90.9	90.9	91.2
800	74.8	79.4	84.8	88.4	89.8	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.9	90.9	90.9	91.2
700	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
600	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
500	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
400	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
300	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
200	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
100	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4
0	75.0	79.5	85.0	88.6	90.0	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.4

TOTAL NUMBER OF OBSERVATIONS 528

1

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

34397 BAD TOLZ GERMANY AAF

6-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

120-140

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .4	≥ .3	≥ .25	
NO CEILING ≥ 20000	39.3	40.8	43.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
18000	46.0	47.3	50.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
16000	46.0	47.3	50.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
14000	46.0	47.3	50.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
12000	46.6	47.9	50.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
10000	45.3	50.9	53.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
9000	50.7	52.3	54.8	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
8000	53.1	54.6	57.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
7000	56.2	58.0	60.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
6000	57.8	59.6	62.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
5000	60.9	62.9	65.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
4500	63.3	65.3	68.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
4000	66.5	68.4	71.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
3500	70.0	72.0	75.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
3000	76.5	78.7	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2500	79.5	81.9	85.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
2000	81.7	84.0	87.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
1800	81.7	84.0	87.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
1500	81.9	84.2	88.2	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1000	82.2	84.8	88.8	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
900	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
800	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
700	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
600	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
500	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
400	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
300	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
200	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
100	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
0	82.4	85.0	89.2	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3

TOTAL NUMBER OF OBSERVATIONS

507

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34117 BAD TOLZ GERMANY AAF

64#66-70

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .58	≥ .2	≥ .16	≥ 0
NO CEILING															
≥ 20000	37.4	38.9	41.9	42.9	42.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 18000	45.5	47.0	50.0	51.1	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 16000	45.5	47.0	50.0	51.1	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 14000	45.5	47.0	50.0	51.1	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 12000	46.4	47.9	50.9	51.9	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 10000	50.4	51.9	54.9	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
IV 9000	51.7	53.2	56.2	57.3	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
IV 8000	54.7	56.2	59.2	60.7	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
IV 7000	57.9	59.4	62.4	63.9	63.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 6000	59.6	61.1	64.1	65.6	65.6	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 5000	62.4	63.9	66.9	68.4	68.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 4500	64.3	65.8	69.2	70.7	70.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 4000	67.1	68.6	72.0	73.5	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IV 3500	70.5	72.2	75.9	77.4	77.4	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 3000	73.0	74.6	78.7	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 2500	79.3	82.9	87.5	89.1	89.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 2000	80.3	84.2	89.1	91.7	91.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 1800	80.6	84.4	89.5	92.1	92.1	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 1500	80.6	84.4	89.8	92.8	92.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 1200	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1000	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 900	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 800	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 700	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 600	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 500	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 400	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 300	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 200	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 100	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 0	81.0	85.5	91.7	95.1	95.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7

TOTAL NUMBER OF OBSERVATIONS 468

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BA0 TOLZ GERMANY AAF

66-73

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1950-2000

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 1/4	≥ 0
NO CEILING																
IV 20000	38.1	40.7	42.3	44.1	44.6	44.6	45.1	45.1	45.6	45.6	45.6	45.6	45.6	45.6	45.6	46.1
IV 18000	43.6	46.6	48.5	50.3	50.8	50.8	51.3	51.3	51.8	51.8	51.8	51.8	51.8	51.8	51.8	52.3
IV 16000	43.6	46.6	48.5	50.3	50.8	50.8	51.3	51.3	51.8	51.8	51.8	51.8	51.8	51.8	51.8	52.3
IV 14000	43.6	46.6	48.5	50.3	50.8	50.8	51.3	51.3	51.8	51.8	51.8	51.8	51.8	51.8	51.8	52.3
IV 12000	44.3	47.4	49.2	51.0	51.5	51.5	52.1	52.1	52.6	52.6	52.6	52.6	52.6	52.6	52.6	53.1
IV 10000	47.7	50.8	52.6	54.4	54.9	54.9	55.4	55.4	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.4
IV 9000	48.7	52.1	53.9	55.7	56.2	56.2	56.7	56.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.7
IV 8000	50.3	53.6	55.4	57.2	57.7	57.7	58.2	58.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8	59.3
IV 7000	53.4	57.2	59.0	60.8	61.3	61.3	61.9	61.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.9
IV 6000	54.6	58.5	60.3	62.1	62.6	62.6	63.1	63.1	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.2
IV 5000	56.4	61.1	63.1	64.9	65.5	65.5	66.0	66.0	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.0
IV 4500	59.5	64.2	66.2	68.0	68.6	68.6	69.1	69.1	69.6	69.6	69.6	69.6	69.6	69.6	69.6	70.1
IV 4000	61.6	67.0	69.1	70.9	71.4	71.4	71.9	71.9	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.9
IV 3500	65.7	71.6	74.5	76.3	76.8	76.8	77.3	77.3	77.8	77.8	77.8	77.8	77.8	77.8	77.8	78.3
IV 3000	70.1	76.8	80.2	82.0	82.5	82.5	83.0	83.0	83.5	83.5	83.5	83.5	83.5	83.5	83.5	84.0
IV 2500	73.2	79.9	83.2	85.0	85.5	85.5	86.0	86.0	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.0
IV 2000	73.5	80.2	83.8	85.9	87.4	87.4	87.9	87.9	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.9
IV 1800	74.0	80.7	84.3	87.4	87.9	87.9	88.4	88.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.4
IV 1500	74.2	80.9	85.3	88.7	89.2	89.2	89.7	89.7	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.7
IV 1200	74.2	81.7	86.3	90.2	90.7	90.7	91.2	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	92.2
IV 1000	74.2	81.7	86.3	90.2	90.7	90.7	91.2	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	92.2
IV 900	74.2	81.7	86.3	90.7	91.2	91.2	91.7	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.7
IV 500	74.2	81.7	86.3	90.7	91.2	91.2	91.7	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.7
IV 700	74.2	81.7	86.3	90.7	91.2	91.2	91.7	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.7
IV 600	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0
IV 500	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0
IV 400	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0
IV 300	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0
IV 200	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0
IV 100	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0
IV 0	74.2	81.7	86.3	91.0	91.5	91.5	92.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	93.0

TOTAL NUMBER OF OBSERVATIONS 388

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAF TOLZ GERMANY AAF

66-67,69

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS UT

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ ¼	≥ 0
NO CEILING																
≥ 20000		30,2	33,3	37,9	51,5	39,0	54,5	57,6	57,6	59,1	59,1	59,1	59,1	59,1	59,1	60,6
18000		31,8	37,9	43,9	57,6	59,1	60,6	63,6	63,6	65,2	65,2	65,2	65,2	65,2	65,2	66,7
16000		31,8	37,9	43,9	57,6	59,1	60,6	63,6	63,6	65,2	65,2	65,2	65,2	65,2	65,2	66,7
14000		31,8	37,9	43,9	57,6	59,1	60,6	63,6	63,6	65,2	65,2	65,2	65,2	65,2	65,2	66,7
12000		31,8	37,9	43,9	57,6	59,1	60,6	63,6	63,6	65,2	65,2	65,2	65,2	65,2	65,2	66,7
10000		31,8	39,4	45,5	59,1	60,6	62,1	65,2	65,2	66,7	66,7	66,7	66,7	66,7	66,7	68,2
9000		31,8	39,4	45,5	59,1	60,6	62,1	65,2	65,2	66,7	66,7	66,7	66,7	66,7	66,7	68,2
8000		33,3	40,9	47,0	60,6	62,1	63,6	66,7	66,7	68,2	68,2	68,2	68,2	68,2	68,2	69,7
7000		37,9	47,0	53,0	66,7	68,2	69,7	72,7	72,7	74,2	74,2	74,2	74,2	74,2	74,2	75,8
6000		37,9	47,0	53,0	66,7	68,2	69,7	72,7	72,7	74,2	74,2	74,2	74,2	74,2	74,2	75,8
5000		37,9	47,0	53,0	66,7	68,2	69,7	72,7	72,7	74,2	74,2	74,2	74,2	74,2	74,2	75,8
4500		37,9	47,0	53,0	66,7	68,2	69,7	72,7	72,7	74,2	74,2	74,2	74,2	74,2	74,2	75,8
4000		37,9	47,0	53,0	66,7	68,2	69,7	72,7	72,7	74,2	74,2	74,2	74,2	74,2	74,2	75,8
3500		37,9	47,0	53,0	66,7	68,2	69,7	72,7	72,7	74,2	74,2	74,2	74,2	74,2	74,2	75,8
3000		40,9	50,0	57,6	72,7	74,2	75,8	78,8	78,8	80,3	80,3	80,3	80,3	80,3	80,3	81,8
2500		42,4	53,0	63,6	80,3	81,8	83,3	86,4	86,4	87,9	87,9	87,9	87,9	87,9	87,9	89,4
2000		42,4	53,0	63,6	80,3	81,8	83,3	86,4	86,4	87,9	87,9	87,9	87,9	87,9	87,9	89,4
1800		43,9	54,5	65,2	81,8	83,3	84,8	87,9	87,9	89,4	89,4	89,4	89,4	89,4	89,4	90,9
1500		43,9	54,5	65,2	81,8	83,3	84,8	87,9	87,9	89,4	89,4	89,4	89,4	89,4	89,4	90,9
1200		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
1000		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
900		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
800		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
700		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
600		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
500		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
400		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
300		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
200		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
100		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0
0		45,5	59,1	69,7	86,4	87,9	90,9	97,0	97,0	98,5	98,5	98,5	98,5	98,5	98,5	100,0

TOTAL NUMBER OF OBSERVATIONS 66



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 24197

STATION NAME BAF TOLZ GERMANY AAF

YEAR 67

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

HOURS (LST) 0000-0200

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
≥ 20000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
10000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
900	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
700	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
600	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
400	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
300	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

TOTAL NUMBER OF OBSERVATIONS 2

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

63-69  
YEARS

CT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0
NO CEILING															
≥ 20000	42.4	46.2	48.7	49.2	49.2	49.6	51.3	51.3	52.1	52.1	52.5	53.4	56.3	57.1	58.4
18000	43.7	47.5	50.0	50.4	50.4	50.8	52.5	52.5	53.4	53.4	53.8	54.6	57.6	58.8	60.1
16000	43.7	47.5	50.0	50.4	50.4	50.8	52.5	52.5	53.4	53.4	53.8	54.6	57.6	58.8	60.1
14000	43.7	47.5	50.0	50.4	50.4	50.8	52.5	52.5	53.4	53.4	53.8	54.6	57.6	58.8	60.1
12000	45.0	48.7	51.3	51.7	51.7	52.1	53.8	53.8	54.6	54.6	55.0	55.9	58.8	60.1	61.3
10000	46.6	50.4	52.9	53.4	53.4	53.8	55.5	55.5	56.3	56.3	56.7	57.6	60.5	61.8	63.0
9000	47.1	50.8	53.4	53.8	53.8	54.2	55.9	55.9	56.7	56.7	57.1	58.0	60.9	62.2	63.4
8000	48.7	52.5	55.0	55.5	55.5	55.9	57.6	57.6	58.4	58.4	58.8	59.7	62.6	63.9	65.1
7000	50.0	53.8	56.3	56.7	56.7	57.1	58.8	58.8	59.7	59.7	60.1	60.9	63.9	65.1	66.4
6000	50.8	54.6	57.1	57.6	57.6	58.0	59.7	59.7	60.5	60.5	60.9	61.8	64.7	66.0	67.2
5000	53.8	58.0	60.5	60.9	60.9	61.3	63.0	63.0	63.9	63.9	64.3	65.1	68.1	69.3	70.6
4500	55.9	60.5	63.0	63.4	63.4	63.9	65.5	65.5	66.4	66.4	66.8	67.6	70.6	71.8	73.1
4000	57.1	61.8	64.3	64.7	64.7	65.1	66.8	66.8	67.6	67.6	68.1	68.9	71.8	73.1	74.4
3500	59.7	64.3	67.2	67.6	67.6	68.1	69.7	69.7	70.6	70.6	71.0	71.8	74.8	76.1	77.3
3000	61.8	66.8	69.7	70.2	70.2	70.6	72.3	72.3	73.1	73.1	73.5	74.4	77.3	78.6	79.8
2500	62.6	68.5	71.8	72.3	72.3	72.7	74.4	74.4	75.2	75.2	75.6	76.1	79.1	81.1	82.4
2000	64.3	70.2	73.9	74.4	74.4	74.8	76.5	76.5	77.3	77.3	77.7	78.6	81.5	83.6	84.9
1800	65.1	71.0	74.8	75.2	75.2	75.6	77.3	77.3	78.2	78.2	78.6	79.4	82.3	84.3	86.1
1500	66.0	71.8	75.6	76.1	76.1	76.5	78.2	78.2	79.0	79.0	79.4	80.3	83.2	85.1	87.8
1200	66.8	72.7	76.5	77.0	77.0	77.4	79.1	79.1	80.0	80.0	80.4	81.3	84.2	86.1	89.5
1000	66.8	72.7	77.3	77.8	77.8	78.2	80.0	80.0	80.8	80.8	81.2	82.1	85.0	86.9	89.8
900	66.8	72.7	78.2	78.7	78.7	79.1	80.9	80.9	81.7	81.7	82.1	83.0	85.9	87.8	90.7
800	66.8	72.7	78.2	78.7	78.7	79.1	80.9	80.9	81.7	81.7	82.1	83.0	85.9	87.8	90.7
700	66.8	72.7	78.2	78.7	78.7	79.1	80.9	80.9	81.7	81.7	82.1	83.0	85.9	87.8	90.7
600	66.8	72.7	78.2	78.7	78.7	79.1	80.9	80.9	81.7	81.7	82.1	83.0	85.9	87.8	90.7
500	66.8	72.7	79.0	80.7	80.7	81.5	83.2	83.2	84.0	84.0	84.4	85.3	88.2	90.1	93.0
400	66.8	72.7	79.0	80.7	80.7	81.5	83.2	83.2	84.0	84.0	84.4	85.3	88.2	90.1	93.0
300	66.8	72.7	79.0	80.7	80.7	81.5	83.2	83.2	84.0	84.0	84.4	85.3	88.2	90.1	93.0
200	66.8	72.7	79.0	80.7	80.7	81.5	83.2	83.2	84.0	84.0	84.4	85.3	88.2	90.1	93.0
100	66.8	72.7	79.0	80.7	80.7	81.5	83.2	83.2	84.0	84.0	84.4	85.3	88.2	90.1	93.0
0	66.8	72.7	79.0	80.7	80.7	81.5	83.2	83.2	84.0	84.0	84.4	85.3	88.2	90.1	93.0

TOTAL NUMBER OF OBSERVATIONS 238

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 STATION BA9 TOLZ GERMANY AAF STATION NAME 64-70 YEARS .CT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0	
NO CEILING		36.8	38.1	39.5	40.4	40.4	41.0	41.5	41.9	42.6	43.5	43.7	44.4	45.7	45.8	47.1
IV 20000		39.5	40.8	42.6	43.5	43.5	44.0	44.6	44.9	45.7	46.6	46.8	47.7	48.9	49.1	50.4
IV 18000		39.5	40.8	42.6	43.5	43.5	44.0	44.6	44.9	45.7	46.6	46.8	47.7	48.9	49.1	50.4
IV 16000		39.5	40.8	42.6	43.5	43.5	44.0	44.6	44.9	45.7	46.6	46.8	47.7	48.9	49.1	50.4
IV 14000		39.7	41.0	42.8	43.7	43.7	44.2	44.8	45.1	45.8	46.8	46.9	47.8	49.1	49.3	50.5
IV 12000		40.3	41.5	43.3	44.2	44.2	44.8	45.3	45.7	46.4	47.3	47.5	48.4	49.6	49.8	51.1
IV 10000		42.2	43.3	45.3	46.2	46.2	46.8	47.3	47.7	48.4	49.3	49.5	50.4	51.6	51.8	53.1
IV 9000		43.3	44.6	46.4	47.3	47.3	47.8	48.4	48.7	49.6	50.5	50.7	51.6	52.9	53.1	54.3
IV 8000		44.8	46.2	48.0	48.9	48.9	49.5	50.0	50.4	51.3	52.2	52.3	53.2	54.5	54.7	56.0
IV 7000		46.2	47.7	49.5	50.4	50.4	50.9	51.4	51.8	52.7	53.6	54.0	54.9	56.3	56.5	57.8
IV 6000		46.6	48.0	49.8	50.7	50.7	51.2	51.8	52.2	53.1	54.0	54.3	55.2	56.7	56.9	58.1
IV 5000		50.7	52.3	54.2	55.2	55.2	55.8	56.3	56.7	57.6	58.5	58.8	59.7	61.2	61.4	62.6
IV 4500		52.7	54.3	56.1	57.2	57.2	57.8	58.3	58.7	59.6	60.5	60.8	61.7	63.2	63.4	64.6
IV 4000		54.3	56.1	57.9	59.0	59.0	59.6	60.1	60.5	61.6	62.5	62.8	63.7	65.2	65.3	66.8
IV 3500		55.2	57.0	58.8	59.9	59.9	60.6	61.2	61.6	62.6	63.5	63.9	64.8	66.2	66.4	67.9
IV 3000		58.3	60.6	63.0	64.1	64.1	64.9	65.5	65.9	67.0	67.9	68.2	69.1	70.6	70.8	72.2
IV 2500		60.8	63.2	65.7	67.0	67.0	67.9	68.6	68.9	69.9	70.8	71.1	72.0	73.5	73.6	75.1
IV 2000		61.4	63.7	67.0	68.2	68.4	69.1	69.9	70.2	71.3	72.2	72.6	73.5	74.9	75.1	76.5
IV 1800		61.9	64.6	68.2	69.7	69.9	70.6	71.3	71.8	72.9	73.8	74.2	75.1	76.5	76.7	78.2
IV 1500		63.2	66.2	70.4	72.0	72.4	73.3	74.2	74.8	75.9	76.8	76.9	77.8	79.2	79.4	80.9
IV 1200		64.1	67.1	71.5	73.3	73.6	74.7	75.6	76.2	77.4	78.3	78.7	79.6	81.0	81.2	82.7
IV 1000		64.4	67.7	72.4	74.7	75.6	76.7	77.8	78.1	80.3	81.2	81.6	82.5	83.9	84.1	85.6
IV 900		64.6	67.9	72.6	74.9	75.8	76.9	77.9	79.2	80.7	81.6	81.9	82.9	84.3	84.5	85.9
IV 800		64.6	67.9	72.6	74.9	76.0	77.1	78.7	79.8	81.4	82.3	82.7	83.6	85.0	85.2	86.6
IV 700		64.6	67.9	73.5	76.2	77.3	78.3	80.9	82.3	84.3	85.4	85.7	86.6	88.1	88.3	89.7
IV 600		64.6	67.9	73.5	76.2	77.4	79.1	81.8	83.4	86.1	87.2	87.5	88.4	89.9	90.1	91.5
IV 500		64.6	67.9	73.6	76.4	77.6	79.4	82.3	83.9	87.4	88.6	89.2	90.1	91.5	91.7	93.7
IV 400		64.6	67.9	73.6	76.4	77.6	79.4	82.3	83.9	87.7	89.3	90.3	91.3	92.7	92.9	95.8
IV 300		64.6	67.9	73.6	76.4	77.6	79.4	82.3	83.9	87.7	89.3	90.3	91.3	92.7	92.9	95.8
IV 200		64.6	67.9	73.6	76.4	77.6	79.4	82.3	83.9	87.7	89.3	90.3	91.3	92.7	92.9	95.8
IV 100		64.6	67.9	73.6	76.4	77.6	79.4	82.3	83.9	87.7	89.3	90.3	91.3	92.7	92.9	95.8
IV 0		64.6	67.9	73.6	76.4	77.6	79.4	82.3	83.9	87.7	89.3	90.3	91.3	92.7	92.9	100.0

TOTAL NUMBER OF OBSERVATIONS 554

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERHANY AAF  
STATION NAME

64-70  
YEARS

CT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

900-1100  
MOJES (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/16	≥ ¼	≥ 0
NO CEILING																
IV 20000	42.7	43.9	45.6	46.1	47.1	47.1	47.1	47.1	47.1	47.4	47.9	48.1	48.4	48.4	48.4	48.6
IV 18000	47.9	49.1	50.8	51.3	52.3	52.4	52.4	52.4	52.4	52.8	53.3	53.4	53.8	53.8	53.8	53.9
IV 16000	47.9	49.1	50.8	51.3	52.3	52.4	52.4	52.4	52.4	52.8	53.3	53.4	53.8	53.8	53.8	53.9
IV 14000	48.1	49.2	50.9	51.4	52.4	52.6	52.6	52.6	52.6	52.9	53.4	53.6	53.9	53.9	53.9	54.1
IV 12000	48.2	49.4	51.1	51.6	52.6	52.8	52.8	52.8	52.8	53.1	53.6	53.8	54.1	54.1	54.1	54.3
IV 10000	49.9	51.1	52.8	53.3	54.3	54.4	54.4	54.4	54.4	54.6	55.2	55.4	55.8	55.8	55.8	55.9
IV 9000	50.8	51.9	53.6	54.1	55.1	55.3	55.3	55.3	55.3	55.6	56.1	56.3	56.6	56.6	56.6	56.8
IV 8000	52.9	54.3	55.9	56.4	57.5	57.6	57.6	57.6	57.6	58.0	58.5	58.6	59.0	59.0	59.0	59.1
IV 7000	55.4	56.8	58.5	59.0	60.0	60.1	60.1	60.1	60.1	60.5	61.0	61.1	61.5	61.5	61.5	61.6
IV 6000	56.4	57.8	59.5	60.0	61.0	61.1	61.1	61.1	61.1	61.5	62.0	62.1	62.5	62.5	62.5	62.5
IV 5000	59.5	60.8	63.0	63.8	64.8	65.0	65.0	65.0	65.0	65.2	65.8	66.0	66.3	66.3	66.3	66.5
IV 4500	60.5	61.8	64.0	64.8	65.8	66.0	66.0	66.0	66.0	66.3	66.8	67.0	67.3	67.3	67.3	67.5
IV 4000	62.5	64.0	66.2	67.2	68.2	68.3	68.3	68.3	68.3	68.7	69.2	69.3	69.7	69.7	69.7	69.8
IV 3500	63.7	65.2	67.3	68.3	69.3	69.5	69.5	69.5	69.5	70.4	70.5	70.9	70.9	70.9	70.9	71.0
IV 3000	65.8	67.0	69.5	70.7	71.9	72.2	72.2	72.2	72.2	73.0	73.2	73.5	73.5	73.5	73.5	73.7
IV 2500	67.7	69.5	72.2	73.4	74.5	74.9	74.9	74.9	74.9	75.2	75.7	75.8	76.2	76.2	76.2	76.4
IV 2000	68.8	70.5	73.5	74.7	75.9	76.2	76.2	76.2	76.2	76.5	77.1	77.2	77.6	77.6	77.6	77.7
IV 1800	68.7	70.9	74.2	75.4	76.5	76.9	76.9	76.9	76.9	77.2	77.7	77.9	78.2	78.2	78.2	78.4
IV 1500	69.7	72.0	75.5	76.7	78.1	78.4	78.4	78.4	78.4	78.7	79.2	79.4	79.7	79.7	79.7	79.9
IV 1200	70.7	73.7	77.2	78.6	79.9	80.4	80.4	80.4	80.4	81.1	81.1	81.4	81.9	82.1	82.4	82.6
IV 1000	71.0	74.0	78.4	79.9	81.7	82.9	82.9	82.9	82.9	84.4	84.4	84.9	85.4	85.6	85.9	86.1
IV 900	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 800	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 700	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 600	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 500	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 400	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 300	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 200	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 100	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4
IV 0	71.0	74.4	79.1	80.9	82.9	84.1	84.1	84.1	84.1	85.6	85.6	86.3	86.8	86.9	87.3	87.4

TOTAL NUMBER OF OBSERVATIONS 597

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAF TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

CT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS UT

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000	49.7	50.9	52.5	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
18000	53.8	55.0	56.9	57.4	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
16000	53.8	55.0	56.9	57.4	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
14000	53.8	55.0	56.9	57.4	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
12000	54.2	55.4	57.2	57.8	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
10000	56.0	57.2	59.1	59.6	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
9000	56.4	57.6	59.5	60.0	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
8000	58.1	59.3	61.2	61.7	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
7000	59.6	60.8	62.7	63.2	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
6000	60.1	61.3	63.2	63.7	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
5000	62.9	64.2	66.6	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
4500	63.7	65.1	67.5	68.1	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
4000	66.6	68.0	70.4	71.0	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
3500	68.3	69.7	72.1	72.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
3000	69.7	71.2	74.1	74.8	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
2500	72.4	74.4	77.3	78.2	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2000	75.0	76.5	79.4	80.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
1800	75.8	78.2	81.1	82.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
1500	77.5	80.2	83.3	84.7	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
1200	77.7	80.6	84.0	85.7	87.4	87.7	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
1000	78.0	80.9	84.8	87.1	89.3	89.8	90.1	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
900	78.0	80.9	84.8	87.4	89.4	90.3	90.8	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
800	78.0	80.9	84.8	87.4	89.9	90.8	92.2	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
700	78.0	80.9	84.8	87.6	90.1	91.3	93.3	94.3	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
600	78.0	80.9	84.8	87.6	90.1	91.3	94.0	95.2	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
500	78.0	80.9	84.8	87.6	90.1	91.3	94.7	96.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
400	78.0	80.9	84.8	87.6	90.1	91.3	94.7	96.8	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0
300	78.0	80.9	84.8	87.6	90.1	91.3	94.7	96.8	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0
200	78.0	80.9	84.8	87.6	90.1	91.3	94.7	96.8	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0
100	78.0	80.9	84.8	87.6	90.1	91.3	94.7	96.8	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0
0	78.0	80.9	84.8	87.6	90.1	91.3	94.7	96.8	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 587

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

36197 BAD TOLZ GERMANY AAF

64-70

CT

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM URLY OBSERVATIONS)

1300-1700  
NO. OF OBS.

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ ¼	≥ 0
NO CEILING															
≥ 20000	45.3	46.6	48.3	48.7	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 18000	50.6	52.2	54.1	54.5	54.9	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 16000	50.8	52.2	54.1	54.5	54.9	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 14000	50.8	52.2	54.1	54.5	54.9	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 12000	51.5	52.9	54.9	55.2	55.6	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 10000	53.1	54.5	56.4	56.8	57.1	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 8000	54.7	56.1	58.0	58.4	58.7	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
IV 7000	58.0	59.4	61.4	61.7	62.1	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 6000	60.3	61.7	63.7	64.0	64.4	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 5000	61.0	62.4	64.4	64.7	65.3	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 4500	62.8	64.2	66.1	66.7	67.2	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 4000	64.6	66.0	67.9	68.4	69.0	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 3500	67.4	68.8	70.7	71.3	71.8	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 3000	69.0	70.5	72.5	73.0	73.5	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 2500	72.8	74.4	76.7	77.4	78.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IV 2000	75.2	78.3	80.1	81.5	82.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 1800	77.4	79.5	82.0	82.9	83.8	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IV 1500	78.7	81.0	83.6	84.7	85.5	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 1200	80.1	82.5	85.2	86.4	87.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 1000	80.1	82.9	85.7	87.5	89.6	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 900	80.1	82.9	85.9	87.8	89.9	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 800	80.1	82.9	85.9	88.0	90.1	91.7	92.2	92.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 700	80.1	82.9	85.9	88.0	90.3	92.1	94.5	94.9	95.6	97.9	98.1	98.1	98.1	98.1	98.1
IV 600	80.1	82.9	85.9	88.0	90.3	92.3	94.9	95.6	97.9	98.1	98.1	98.1	98.1	98.1	98.1
IV 500	80.2	83.1	86.1	88.2	90.5	92.3	95.2	95.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	80.2	83.1	86.1	88.2	90.5	92.3	95.2	95.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5
IV 300	80.2	83.1	86.1	88.2	90.5	92.3	95.2	95.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5
IV 200	80.2	83.1	86.1	88.2	90.5	92.3	95.2	95.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5
IV 100	80.2	83.1	86.1	88.2	90.5	92.3	95.2	95.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5
IV 0	80.2	83.1	86.1	88.2	90.5	92.3	95.2	95.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 567

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 STATION BAD TOLZ GERMANY AAF

65-70 YEARS

CT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1400-2000 HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILE															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000	53.8	55.6	57.4	57.7	57.9	58.7	59.7	60.0	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.8
IV 18000	55.3	56.9	59.0	59.5	59.7	60.8	61.8	62.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.9
IV 16000	55.8	57.7	59.7	60.3	60.5	61.5	62.6	62.9	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.6
IV 14000	56.1	57.9	60.0	60.5	60.8	61.8	62.9	63.1	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.9
IV 12000	56.4	58.2	60.5	61.0	61.3	62.3	63.4	63.6	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.4
IV 10000	57.4	59.2	61.6	62.1	62.3	63.4	64.4	64.7	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.5
IV 9000	59.0	60.8	63.1	63.6	63.9	64.9	66.0	66.2	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.0
IV 8000	61.6	63.4	65.7	66.2	66.5	67.5	68.6	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.6
IV 7000	63.6	65.5	67.8	68.3	68.6	69.6	70.6	70.9	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.7
IV 6000	63.6	65.7	68.1	68.6	68.8	69.9	70.9	71.2	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.9
IV 5000	64.4	66.5	68.8	69.4	69.6	70.6	71.7	71.9	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.7
IV 4500	67.0	69.1	71.4	71.9	72.2	73.2	74.3	74.5	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.3
IV 4000	69.1	71.2	73.5	74.0	74.3	75.3	76.4	76.6	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.4
IV 3500	72.2	74.5	76.9	77.4	77.7	79.0	80.0	80.3	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.0
IV 3000	74.0	76.6	79.0	79.7	80.0	81.2	82.3	82.6	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.4
IV 2500	76.4	79.2	81.8	82.4	82.9	84.2	85.2	85.5	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.2
IV 2000	78.4	81.8	84.4	85.2	85.5	87.0	88.1	88.3	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.1
IV 1800	79.2	82.6	85.5	86.5	86.8	88.3	89.4	89.6	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.4
IV 1500	80.3	83.6	86.5	87.5	88.1	89.6	90.9	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.9
IV 1200	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 1000	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 900	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 800	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 700	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 600	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 500	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 400	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 300	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 200	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 100	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
IV 0	80.3	84.2	87.0	88.1	88.6	90.1	91.4	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0

TOTAL NUMBER OF OBSERVATIONS 385

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

04197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

67  
YEAR

CT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

210-230  
NO. OF HRS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ 3/4	≥ 3/8	≥ 1/2	0
NO CEILING ≥ 2000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 13000 16000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 14000 12000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 10000 9000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 8000 7000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 6000 5000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 4500 4000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 3500 3000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 2500 2000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 1800 1500	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 1200 1000	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 900 800	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 700 600	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 500 400	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 300 200	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
IVM 100 0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0

TOTAL NUMBER OF OBSERVATIONS 5



DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-69

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

030-030

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	
NO CEILING ≥ 20000	26.1	27.6	29.1	29.9	30.2	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	31.3	31.3	31.3
IV 18000	29.1	30.6	32.1	32.8	33.2	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	34.3	34.3	34.3
IV 16000	29.1	30.6	32.1	32.8	33.2	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	34.3	34.3	34.3
IV 14000	29.1	30.6	32.1	32.8	33.2	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	34.3	34.3	34.3
IV 12000	29.1	30.6	32.1	32.8	33.2	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	34.3	34.3	34.3
IV 10000	29.9	31.3	32.8	33.6	34.0	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.1	35.1	35.1
IV 9000	30.6	32.1	33.6	34.3	34.7	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.8	35.8	35.8
IV 8000	32.5	34.3	35.8	36.6	36.9	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	38.1	38.1	38.1
IV 7000	33.2	35.1	36.6	37.3	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	39.2	39.2	39.2
IV 6000	34.3	36.2	37.7	38.4	38.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	40.3	40.3	40.3
IV 5000	34.4	40.7	42.9	43.7	44.0	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	45.3	45.3	45.3
IV 4500	40.3	42.5	44.8	45.8	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	47.4	47.4	47.4
IV 4000	42.5	45.5	48.1	48.9	49.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	50.0	50.0	50.0
IV 3500	54.8	47.8	50.4	51.1	51.5	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	53.7	53.7	53.7
IV 3000	45.3	50.0	53.0	53.7	54.1	54.9	55.2	55.2	55.2	55.2	55.2	55.2	55.2	56.3	56.3	56.3
IV 2500	50.4	54.9	58.2	59.3	60.1	60.8	61.2	61.2	61.2	61.2	61.2	61.2	61.2	62.3	62.3	62.3
IV 2000	51.1	56.3	60.8	61.9	62.7	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.8	64.9	64.9	64.9
IV 1800	52.2	57.8	62.3	63.4	64.2	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.4	66.4	66.4
IV 1700	52.6	58.2	63.1	64.2	64.9	65.0	67.9	67.9	67.9	67.9	67.9	67.9	67.9	68.3	68.3	68.3
IV 1200	52.4	59.7	65.3	66.5	67.3	69.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.4	72.4	72.4
IV 1000	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 900	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 800	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 700	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 600	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 500	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 400	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 300	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 200	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 100	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6
IV 0	53.7	60.1	66.0	67.3	68.7	69.8	71.3	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	74.6

TOTAL NUMBER OF OBSERVATIONS 268

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 34197 RAF TOLZ GERMANY AAF

64-70

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FORM NO. 1600-0800

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	
NO CEILING																	
≥ 20000		25.6	25.6	27.8	28.3	28.7	28.7	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.6	29.6	30.0
IV 16000		28.3	28.3	30.5	31.0	31.4	31.4	31.8	31.8	31.8	31.9	31.9	31.9	31.9	32.3	32.3	32.9
IV 14000		28.3	28.3	30.5	31.0	31.4	31.4	31.8	31.8	31.8	31.9	31.9	31.9	31.9	32.3	32.3	32.9
IV 12000		28.7	28.7	30.9	31.4	31.8	31.8	32.1	32.1	32.1	32.3	32.3	32.3	32.7	32.7	33.2	
IV 10000		30.1	30.1	32.3	32.9	33.2	33.2	33.6	33.6	33.6	33.8	33.8	33.8	34.1	34.1	34.7	34.7
IV 9000		30.7	30.7	32.9	33.4	33.8	33.8	34.2	34.2	34.2	34.3	34.3	34.3	34.7	34.7	35.2	
IV 8000		32.1	32.1	34.3	34.8	35.2	35.2	35.7	35.7	35.7	35.9	35.9	35.9	36.3	36.3	36.8	36.8
IV 7000		34.7	34.7	36.8	37.4	37.7	37.7	38.3	38.3	38.3	38.6	38.6	38.6	39.2	39.2	39.7	39.7
IV 6000		35.9	35.9	38.1	38.6	39.0	39.2	39.7	39.7	40.1	40.3	40.3	40.3	40.6	40.6	41.2	41.2
IV 5000		41.0	41.2	43.9	44.4	44.8	44.8	45.5	45.5	45.8	46.0	46.0	46.0	46.4	46.4	46.9	46.9
IV 4500		42.2	42.6	45.3	45.8	46.2	46.4	46.9	46.9	47.3	47.5	47.5	47.5	47.8	47.8	48.4	48.4
IV 4000		45.3	45.7	48.4	48.9	49.3	49.5	50.0	50.9	51.1	51.6	51.6	51.6	52.0	52.0	52.5	52.5
IV 3500		46.8	47.3	50.5	51.1	51.6	52.3	53.2	53.4	53.8	54.0	54.0	54.0	54.3	54.3	54.9	54.9
IV 3000		49.5	50.2	53.4	54.0	54.7	55.6	56.5	56.7	57.0	57.2	57.2	57.2	57.6	57.6	58.1	58.1
IV 2500		52.0	53.1	56.7	58.1	59.2	60.1	61.2	61.4	61.7	61.9	61.9	61.9	62.3	62.3	62.8	62.8
IV 2000		54.0	55.1	58.8	60.3	61.4	62.5	63.7	63.9	64.3	64.4	64.4	64.4	64.8	64.8	65.3	65.3
IV 1800		54.7	56.0	59.7	61.2	62.3	63.7	65.0	65.2	65.5	65.7	65.7	65.7	66.1	66.1	66.6	66.6
IV 1500		56.9	58.7	62.5	64.6	66.1	67.9	69.3	69.5	70.0	70.2	70.2	70.2	70.6	70.6	71.1	71.1
IV 1200		58.1	60.1	64.1	66.2	68.1	70.4	72.2	72.4	72.9	73.3	73.3	73.3	73.6	73.6	74.2	74.2
IV 1000		58.1	60.1	64.8	67.3	69.1	71.5	73.3	73.8	74.7	75.3	75.3	75.3	75.8	75.8	76.4	76.4
IV 900		58.1	60.1	64.8	67.3	69.1	72.0	73.8	74.4	75.3	76.2	76.2	76.2	76.7	76.7	77.3	77.3
IV 800		58.1	60.1	64.8	67.7	69.7	72.2	74.4	74.9	76.2	77.1	77.1	77.1	77.8	77.8	78.3	78.3
IV 700		58.1	60.1	64.8	68.1	70.0	73.5	76.4	77.3	78.9	80.7	80.7	80.7	81.0	81.0	82.0	82.0
IV 600		58.1	60.3	65.3	68.8	70.8	74.5	77.6	78.5	80.3	82.7	83.4	83.4	84.1	84.1	84.8	84.8
IV 500		58.3	60.3	65.3	68.8	70.8	74.9	78.7	80.1	82.5	85.4	86.1	86.1	87.4	87.4	88.3	88.3
IV 400		58.3	60.3	65.3	68.8	70.8	75.1	79.4	81.4	83.9	87.4	88.4	88.4	89.9	89.9	91.2	91.2
IV 300		58.3	60.3	65.3	68.8	70.8	75.5	79.8	82.1	85.0	88.6	89.7	89.7	91.7	91.7	93.0	93.0
IV 200		58.3	60.3	65.3	68.8	70.8	75.5	79.8	82.1	85.0	89.0	90.3	90.3	92.4	92.4	94.0	94.0
IV 100		58.3	60.3	65.3	68.8	70.8	75.5	79.8	82.1	85.0	89.0	90.3	90.3	92.4	92.4	94.4	94.4
IV 0		58.3	60.3	65.3	68.8	70.8	75.5	79.8	82.1	85.0	89.0	90.3	90.3	92.4	93.9	94.6	100.0

TOTAL NUMBER OF OBSERVATIONS 554

DATA PROCESSING DIVISION  
 USAF STAC  
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197

BAD TOLZ GERMANY AAF

64-72

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

19-0-1100

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
NO CEILING	22.0	23.1	23.4	23.8	24.1	24.2	24.6	25.0	25.3	25.3	25.3	25.5	25.5	25.5	25.5
≥ 20000	29.8	30.9	31.7	32.0	32.5	32.9	33.2	33.6	33.9	33.9	33.9	34.2	34.2	34.2	34.2
IV 18000	29.8	30.9	31.7	32.0	32.5	32.9	33.2	33.6	33.9	33.9	33.9	34.2	34.2	34.2	34.2
IV 16000	29.8	30.9	31.7	32.0	32.5	32.9	33.2	33.6	33.9	33.9	33.9	34.2	34.2	34.2	34.2
IV 14000	29.8	30.9	31.7	32.0	32.5	32.9	33.2	33.6	33.9	33.9	33.9	34.2	34.2	34.2	34.2
IV 12000	30.4	31.4	32.2	32.5	33.1	33.4	33.7	34.1	34.4	34.4	34.4	34.7	34.7	34.7	34.7
IV 10000	32.4	33.4	34.2	34.6	35.1	35.4	35.8	36.1	36.4	36.4	36.4	36.8	36.8	36.8	36.8
IV 9000	32.5	33.7	34.6	34.9	35.4	35.8	36.1	36.4	36.8	36.8	36.8	37.1	37.1	37.1	37.1
IV 8000	35.1	37.3	38.1	38.4	39.0	39.5	40.0	40.3	40.8	40.8	40.8	41.1	41.1	41.1	41.3
IV 7000	38.3	39.5	40.3	40.6	41.1	41.8	42.2	42.2	43.0	43.2	43.2	43.5	43.5	43.5	43.7
IV 6000	40.6	41.8	42.7	43.0	43.5	44.4	44.9	45.2	45.7	45.9	45.9	46.2	46.2	46.2	46.4
IV 5000	42.5	43.7	44.5	44.9	45.4	46.2	46.7	47.0	47.6	47.7	47.7	48.1	48.1	48.1	48.4
IV 4500	45.5	46.7	47.5	48.1	48.6	49.4	49.9	50.3	50.8	50.9	50.9	51.3	51.3	51.3	51.6
IV 4000	47.2	48.4	49.2	49.7	50.4	51.3	51.8	52.1	52.8	53.0	53.0	53.3	53.3	53.3	53.6
IV 3500	50.8	51.4	52.3	53.1	53.3	54.0	54.3	55.0	55.6	56.3	56.7	57.0	57.0	57.0	57.3
IV 3000	52.4	53.6	54.6	55.5	56.2	57.2	58.0	58.2	59.3	59.4	59.4	59.7	59.7	59.7	60.0
IV 2500	54.8	56.3	57.7	58.5	59.6	60.9	61.8	62.7	62.9	63.9	63.9	64.2	64.2	64.2	64.6
IV 2000	56.9	58.0	59.7	60.5	61.4	63.1	64.7	64.1	64.9	65.1	65.1	65.4	65.4	65.4	65.8
IV 1800	58.7	58.5	60.6	61.2	62.1	63.7	64.8	65.1	65.9	66.1	66.1	66.6	66.6	66.6	67.3
IV 1500	59.0	61.6	63.7	65.1	66.1	68.0	69.1	69.8	70.8	71.0	71.0	71.3	71.3	71.3	71.7
IV 1200	60.2	63.2	66.6	68.5	69.8	72.2	73.7	74.5	75.9	76.1	76.1	76.4	76.4	76.4	76.7
IV 1000	60.4	63.4	67.3	69.5	71.0	74.4	75.1	77.2	78.8	79.1	79.1	79.4	79.4	79.4	79.8
IV 900	60.8	63.6	67.8	70.2	71.7	75.3	77.4	78.6	80.4	80.8	80.8	81.1	81.1	81.1	81.5
IV 800	60.5	63.6	67.9	70.5	72.2	76.2	78.9	80.3	82.5	83.0	83.0	83.3	83.3	83.3	83.6
IV 700	60.9	63.9	68.3	71.5	73.3	78.6	81.3	83.1	85.3	86.0	86.0	86.3	86.3	86.3	86.6
IV 600	61.0	64.1	68.6	71.8	74.0	79.4	82.6	84.3	87.4	88.2	88.2	88.5	88.5	88.5	88.9
IV 500	61.0	64.2	69.0	72.0	74.2	80.1	83.5	85.5	89.7	90.6	90.6	90.9	90.9	90.9	91.4
IV 400	61.0	64.2	69.0	72.0	74.2	80.2	84.0	86.5	90.9	92.2	92.6	93.6	93.6	93.6	94.1
IV 300	61.0	64.2	69.0	72.0	74.2	80.3	84.0	86.7	91.1	92.9	93.4	94.4	94.4	94.4	94.9
IV 200	61.0	64.2	69.0	72.0	74.2	80.3	84.0	86.7	91.1	92.9	93.4	94.4	94.4	94.4	94.9
IV 100	61.0	64.2	69.0	72.0	74.2	80.3	84.0	86.7	91.1	92.9	93.4	94.4	94.4	94.4	94.9
IV 0	61.0	64.2	69.0	72.0	74.2	80.3	84.0	86.7	91.1	92.9	93.4	94.4	94.4	94.4	94.9

TOTAL NUMBER OF OBSERVATIONS 393

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAW TOLZ GERMANY AAF

64-70

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

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

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .5	≥ .5	≥ .5	≥ .5
NO CEILING		25.2	25.7	25.8	25.8	26.4	26.5	27.0	27.0	27.0	27.0	27.0	27.2	27.2	27.2
≥ 20000		33.8	34.6	35.0	35.3	35.8	36.0	36.5	36.5	36.5	36.5	36.5	36.7	36.7	36.7
18000		33.8	34.6	35.0	35.3	35.8	36.0	36.5	36.5	36.5	36.5	36.5	36.7	36.7	36.7
16000		33.8	34.6	35.0	35.3	35.8	36.0	36.5	36.5	36.5	36.5	36.5	36.7	36.7	36.7
14000		34.1	35.0	35.3	35.6	36.1	36.3	36.8	36.8	36.8	36.8	36.8	37.0	37.0	37.0
12000		34.8	35.6	36.0	36.3	36.8	37.0	37.5	37.5	37.5	37.5	37.5	37.7	37.7	37.7
10000		35.6	36.7	37.0	37.3	37.8	38.0	38.5	38.5	38.5	38.5	38.5	38.7	38.7	38.7
9000		37.2	38.2	38.5	38.9	39.4	39.5	40.0	40.0	40.0	40.0	40.0	40.2	40.2	40.2
8000		39.5	40.5	40.9	41.7	42.2	42.4	42.9	42.9	42.9	42.9	42.9	43.1	43.1	43.1
7000		42.7	43.8	44.3	45.1	45.6	45.8	46.3	46.3	46.3	46.3	46.3	46.6	46.6	46.6
6000		47.6	48.6	48.8	49.0	49.5	49.7	48.5	48.5	48.5	48.5	48.5	48.6	48.6	48.6
5000		47.3	48.3	48.8	49.8	50.5	50.7	51.4	51.4	51.5	51.5	51.5	51.7	51.7	51.7
4500		50.0	51.0	51.5	52.5	53.2	53.4	54.1	54.1	54.2	54.2	54.2	54.4	54.4	54.4
4000		51.4	52.4	52.9	53.9	54.6	54.7	56.1	56.1	56.3	56.3	56.3	56.4	56.4	56.4
3500		53.0	54.2	54.7	55.7	57.1	57.4	58.1	58.1	58.3	58.3	58.3	58.4	58.4	58.4
3000		54.4	55.7	56.6	58.3	59.6	60.1	60.8	60.8	61.0	61.0	61.0	61.1	61.1	61.1
2500		56.5	58.3	59.3	61.1	62.5	63.0	63.7	63.7	63.9	63.9	63.9	64.0	64.0	64.0
2000		59.1	60.3	62.0	63.9	65.2	65.7	66.7	66.7	66.9	66.9	66.9	67.1	67.1	67.1
1800		59.8	61.5	63.0	65.4	66.7	67.2	68.2	68.2	68.4	68.4	68.4	68.6	68.6	68.6
1500		61.1	62.8	64.7	67.6	69.3	70.4	71.5	71.5	72.0	72.0	72.0	72.3	72.3	72.3
1200		62.8	64.0	66.2	70.3	71.8	72.1	74.2	74.2	74.5	74.5	74.5	75.0	75.0	75.0
1000		63.2	65.0	67.6	72.5	74.3	74.4	78.4	78.4	78.9	78.9	78.9	80.1	80.1	80.1
900		63.3	65.4	67.9	73.0	75.2	75.7	79.7	79.7	80.2	80.2	80.2	81.6	81.6	81.6
800		63.5	65.5	68.2	73.5	75.7	76.7	81.9	81.9	82.6	82.6	82.6	84.1	84.1	84.1
700		63.7	65.7	68.8	74.2	76.7	77.7	83.1	83.1	83.8	83.8	83.8	85.3	85.3	85.3
600		63.7	65.7	68.8	74.3	76.9	77.9	83.6	83.6	84.3	84.3	84.3	85.8	85.8	85.8
500		63.7	65.7	68.8	74.3	77.2	78.2	84.0	84.0	84.7	84.7	84.7	86.2	86.2	86.2
400		63.7	65.7	68.8	74.3	77.2	78.2	84.3	84.3	85.0	85.0	85.0	86.5	86.5	86.5
300		63.7	65.7	68.8	74.3	77.2	78.2	84.6	84.6	85.3	85.3	85.3	86.8	86.8	86.8
200		63.7	65.7	68.8	74.3	77.2	78.2	84.9	84.9	85.6	85.6	85.6	87.1	87.1	87.1
100		63.7	65.7	68.8	74.3	77.2	78.2	85.2	85.2	85.9	85.9	85.9	87.4	87.4	87.4
0		63.7	65.7	68.8	74.3	77.2	78.2	85.5	85.5	86.2	86.2	86.2	87.7	87.7	87.7

TOTAL NUMBER OF OBSERVATIONS 592

1

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

V  
MONTH  
150-1700

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 1/4	≥ 1/8	
NO CEILING																	
≥ 20000	24.4	25.2	25.7	26.2	26.2	26.2	26.7	26.7	27.1	27.1	27.1	27.1	27.1	27.2	27.2	27.2	27.7
18000	30.8	31.6	32.1	32.7	32.7	32.7	33.2	33.2	33.5	33.5	33.5	33.5	33.5	33.7	33.7	33.7	33.7
16000	30.8	31.6	32.1	32.7	32.7	32.7	33.2	33.2	33.5	33.5	33.5	33.5	33.5	33.7	33.7	33.7	33.7
14000	30.8	31.6	32.1	32.7	32.7	32.7	33.2	33.2	33.5	33.5	33.5	33.5	33.5	33.7	33.7	33.7	33.7
12000	31.6	32.5	33.0	33.5	33.5	33.5	34.0	34.0	34.3	34.3	34.3	34.3	34.3	34.5	34.5	34.5	34.5
10000	33.8	34.9	35.4	35.9	35.9	35.9	36.4	36.4	36.7	36.7	36.7	36.7	36.7	36.9	36.9	36.9	36.9
9000	34.0	35.0	35.5	36.2	36.4	36.4	36.9	36.9	37.2	37.2	37.2	37.2	37.2	37.4	37.4	37.4	37.4
8000	36.7	37.7	38.4	39.4	39.8	39.8	40.4	40.4	40.8	40.8	40.8	40.8	40.8	40.9	40.9	40.9	41.1
7000	39.8	40.8	41.6	42.8	43.1	43.1	43.8	43.8	44.2	44.2	44.2	44.2	44.2	44.3	44.3	44.3	44.5
6000	40.8	41.8	42.6	43.8	44.2	44.2	44.8	44.8	45.2	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.5
5000	43.1	44.2	45.0	46.2	46.5	46.5	47.2	47.2	47.5	47.5	47.5	47.5	47.5	47.7	47.7	47.7	47.9
4500	45.2	46.2	47.0	48.2	48.6	48.6	49.2	49.2	49.6	49.6	49.6	49.6	49.6	49.7	49.7	49.7	49.9
4000	48.2	49.2	50.1	51.3	51.8	51.8	52.5	52.5	52.8	52.8	52.8	52.8	52.8	53.0	53.0	53.1	53.1
3500	51.6	53.0	53.8	55.0	55.5	55.5	56.2	56.2	56.5	56.5	56.5	56.5	56.5	56.7	56.7	56.7	56.9
3000	54.3	56.2	57.7	59.1	59.7	59.7	60.4	60.4	60.7	60.7	60.7	60.7	60.7	60.9	60.9	61.1	61.1
2500	58.0	59.9	61.6	63.5	64.3	64.3	65.0	65.0	65.3	65.3	65.3	65.3	65.3	65.5	65.5	65.7	65.7
2000	59.7	62.1	63.8	66.0	67.0	67.0	67.7	67.7	68.0	68.0	68.0	68.0	68.0	68.2	68.2	68.4	68.4
1800	60.7	62.3	63.3	67.5	68.7	68.7	69.4	69.4	69.9	69.9	69.9	69.9	69.9	70.1	70.1	70.2	70.2
1500	61.3	64.1	66.5	69.4	70.9	71.1	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.6	72.6	72.8	72.8
1200	61.9	65.0	67.5	70.9	72.4	72.7	74.3	74.3	74.6	74.6	74.6	74.6	74.6	75.1	75.1	75.3	75.3
1000	62.6	66.3	69.4	72.9	74.5	74.5	75.5	75.5	75.8	75.8	75.8	75.8	75.8	76.2	76.2	76.3	76.3
900	62.9	66.7	69.9	73.9	75.6	75.6	76.7	76.7	77.0	77.0	77.0	77.0	77.0	77.8	77.8	77.8	77.8
800	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
700	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
600	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
500	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
400	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
300	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
200	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
100	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
0	63.3	67.0	70.2	74.6	76.3	76.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2

TOTAL NUMBER OF OBSERVATIONS 591

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAD TULZ GERMANY AAF  
STATION NAME

65-70  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-2000  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000	30.7	32.5	33.4	34.1	34.1	34.8	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.7	35.7	35.9
IV 18000	34.5	36.3	37.2	37.9	37.9	38.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.7	39.7	39.9
IV 16000	34.5	36.3	37.2	37.9	37.9	38.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.7	39.7	39.9
IV 14000	35.2	37.0	37.9	38.6	38.6	39.7	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.6	40.6	40.8
IV 12000	35.2	37.0	37.9	38.6	38.6	39.7	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.6	40.6	40.8
IV 10000	37.7	39.5	40.4	41.0	41.0	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	43.0	43.0	43.3
IV 9000	37.7	39.5	40.4	41.3	41.3	42.6	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.7	43.7	43.9
IV 8000	40.8	42.6	43.5	44.6	44.6	45.7	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.9	46.9	47.1
IV 7000	43.3	45.1	46.0	47.5	47.5	48.9	49.6	49.6	49.6	49.6	49.6	49.6	49.6	50.0	50.0	50.2
IV 6000	43.9	45.7	46.6	48.2	48.2	49.6	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.7	50.7	50.9
IV 5000	44.6	46.4	47.3	48.9	48.9	50.2	50.9	50.9	50.9	50.9	50.9	50.9	50.9	51.3	51.3	51.6
IV 4500	45.0	48.0	48.9	50.4	50.4	51.8	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.9	52.9	53.1
IV 4000	47.5	49.6	50.4	52.0	52.0	53.4	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.5	54.5	54.7
IV 3500	50.7	52.7	54.3	55.8	55.8	57.2	57.8	57.8	57.8	57.8	57.8	57.8	57.8	58.3	58.3	58.5
IV 3000	52.2	54.3	55.8	57.8	57.8	59.4	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.5	60.5	60.7
IV 2500	55.2	57.5	60.3	62.8	62.8	64.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.5	65.5	65.7
IV 2000	56.7	60.1	63.9	67.7	67.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.4	70.4	70.6
IV 1800	57.2	61.0	65.8	69.3	69.3	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.2	72.2	72.4
IV 1500	57.6	61.7	66.6	70.6	70.6	72.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.5	73.5	73.8
IV 1200	58.1	62.6	68.4	72.4	72.4	74.2	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.3	75.3	75.6
IV 1000	58.1	62.6	68.4	72.4	72.4	74.2	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.3	75.3	75.6
IV 900	58.1	62.8	68.6	72.6	72.6	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.6	75.6	75.8
IV 800	58.1	63.0	68.8	72.9	72.9	74.9	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.8	75.8	76.0
IV 700	58.1	63.2	69.1	73.1	73.1	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	76.2	76.2	76.4
IV 600	58.1	63.2	69.1	73.1	73.1	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	76.2	76.2	76.4
IV 500	58.1	63.2	69.1	73.1	73.1	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	76.2	76.2	76.4
IV 400	58.1	63.2	69.3	73.3	73.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.4	76.4	76.6
IV 300	58.1	63.2	69.3	73.3	73.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.4	76.4	76.6
IV 200	58.1	63.2	69.3	73.3	73.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.4	76.4	76.6
IV 100	58.1	63.2	69.3	73.3	73.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.4	76.4	76.6
IV 0	58.1	63.2	69.3	73.3	73.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.4	76.4	76.6

TOTAL NUMBER OF OBSERVATIONS 446

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAD TOLZ GERMANY AAF

65-70

FC

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1350-0500  
HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ 0
NO CEILING ≥ 20000	26.6	27.7	28.2	29.2	28.2	28.6	29.5	29.5	29.5	30.0	30.0	30.0	30.9	30.9	30.9
IV 18000	27.7	29.1	29.5	29.5	29.5	30.0	30.9	30.9	30.9	31.4	31.4	31.4	32.3	32.3	32.3
IV 14000	27.7	29.1	29.5	29.5	29.5	30.0	30.9	30.9	30.9	31.4	31.4	31.4	32.3	32.3	32.3
IV 10000	30.0	31.4	31.8	31.8	31.8	32.3	33.2	33.2	33.2	33.6	33.6	33.6	34.5	34.5	34.5
IV 8000	31.8	33.2	33.6	33.6	33.6	34.1	35.0	35.0	35.0	35.5	35.5	35.5	36.4	36.4	36.4
IV 6000	34.5	35.9	36.4	36.4	36.4	36.8	37.7	37.7	37.7	38.2	38.2	38.2	39.1	39.1	39.1
IV 4500	36.8	38.2	38.6	38.6	38.6	39.1	40.0	40.0	40.0	40.5	40.5	40.5	41.4	41.4	41.4
IV 3500	40.5	41.8	42.3	42.3	42.3	42.7	43.6	43.6	43.6	44.1	44.1	44.1	45.0	45.0	45.0
IV 3000	40.9	42.3	42.7	42.7	42.7	43.2	44.1	44.1	44.1	44.5	44.5	44.5	45.5	45.5	45.5
IV 2500	45.9	47.3	47.7	47.7	47.7	48.2	49.1	49.1	49.1	49.5	49.5	49.5	50.5	50.5	50.5
IV 2000	49.1	51.8	52.3	52.3	52.3	53.6	54.5	54.5	54.5	55.0	55.0	55.0	55.9	55.9	55.9
IV 1800	51.5	53.2	53.6	53.6	53.6	54.1	55.0	55.0	55.0	55.5	55.5	55.5	56.4	56.4	56.4
IV 1500	53.6	55.2	55.6	55.6	55.6	56.1	57.0	57.0	57.0	57.5	57.5	57.5	58.4	58.4	58.4
IV 1200	54.5	56.1	56.5	56.5	56.5	57.0	57.9	57.9	57.9	58.4	58.4	58.4	59.3	59.3	59.3
IV 1000	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 900	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 800	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 700	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 600	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 500	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 400	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 300	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 200	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 100	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7
IV 0	55.0	56.5	56.9	56.9	56.9	57.4	58.3	58.3	58.3	58.8	58.8	58.8	59.7	59.7	59.7

TOTAL NUMBER OF OBSERVATIONS 220

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197 BAO TOLZ GERMANY AAF

64-70

JFC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0600-0700  
 HOUR OF DAY

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .58	≥ .2	≥ .16	≥ .1	
NO CEILING		25.2	25.6	26.6	26.7	26.7	27.3	28.1	28.1	28.6	29.0	29.6	29.6	29.6	29.8	29.8
IV 20000		28.4	28.8	29.8	29.9	30.1	30.5	31.3	31.3	31.8	32.2	32.8	32.8	32.8	33.0	33.1
IV 18000		28.4	28.8	29.8	29.9	30.1	30.5	31.3	31.3	31.8	32.2	32.8	32.8	32.8	33.0	33.1
IV 16000		28.4	28.8	29.8	29.9	30.1	30.5	31.3	31.3	31.8	32.2	32.8	32.8	32.8	33.0	33.1
IV 14000		28.6	29.0	29.9	30.1	30.3	30.7	31.5	31.5	32.0	32.4	33.0	33.0	33.0	33.1	33.3
IV 12000		28.6	29.0	29.9	30.1	30.3	30.7	31.5	31.5	32.0	32.4	33.0	33.0	33.0	33.1	33.3
IV 10000		30.1	30.5	31.5	31.6	31.8	32.2	33.0	33.0	33.5	33.9	34.5	34.5	34.5	34.7	34.8
IV 9000		30.3	30.7	31.6	31.8	32.0	32.4	33.1	33.1	33.7	34.1	34.7	34.7	34.7	34.8	35.0
IV 8000		33.3	34.3	34.5	34.5	34.7	35.0	35.8	35.8	36.3	36.7	37.3	37.3	37.3	37.5	37.7
IV 7000		34.7	35.0	35.6	36.2	36.2	36.7	37.5	37.5	38.0	38.4	39.0	39.0	39.0	39.2	39.4
IV 6000		35.4	35.8	36.7	36.7	37.1	37.5	38.6	38.6	39.2	39.7	40.3	40.3	40.3	40.5	40.7
IV 5000		37.3	37.9	39.0	39.4	39.5	39.9	41.1	41.1	41.6	42.2	42.7	42.7	42.7	42.9	43.1
IV 4500		38.2	39.0	40.3	40.7	40.9	41.2	42.4	42.4	42.9	43.5	44.1	44.1	44.1	44.3	44.4
IV 4000		39.7	40.5	41.8	42.4	42.6	42.9	44.1	44.1	44.6	45.2	45.8	45.8	45.8	46.0	46.1
IV 3500		43.3	44.1	45.4	46.1	46.3	46.7	47.8	47.8	48.4	49.0	49.5	49.5	49.5	49.7	49.9
IV 3000		47.1	48.0	50.1	50.8	51.4	52.5	53.7	53.7	54.4	55.0	55.6	55.6	55.6	55.7	55.9
IV 2500		49.7	51.4	52.9	53.0	53.6	56.7	57.8	57.8	58.6	59.1	59.7	59.7	59.7	59.9	60.1
IV 2000		51.6	52.5	57.4	59.3	60.3	61.4	62.7	62.7	63.7	64.2	64.8	64.8	64.8	65.0	65.2
IV 1800		52.0	53.9	57.5	59.7	61.0	62.3	63.7	63.8	64.6	65.2	65.7	65.7	65.7	65.9	66.1
IV 1500		52.9	53.0	59.1	61.6	63.3	65.3	66.7	66.9	67.6	68.2	68.7	68.9	68.9	69.1	69.3
IV 1200		54.4	57.1	61.8	64.6	67.0	69.3	71.0	71.2	72.1	73.1	74.0	74.2	74.2	74.4	74.6
IV 1000		54.6	57.3	62.0	65.0	67.6	70.6	72.3	72.7	73.8	74.8	75.9	75.1	76.1	76.3	76.5
IV 900		54.6	57.3	62.0	65.2	67.8	70.8	73.4	73.8	74.8	76.1	77.4	77.6	77.6	77.8	78.0
IV 800		54.8	57.4	62.9	65.1	68.7	72.1	75.0	75.3	77.0	78.3	79.8	80.4	80.4	80.6	80.8
IV 700		55.6	58.6	64.0	67.4	70.1	73.8	76.6	77.2	79.1	80.6	82.1	82.7	82.7	82.9	83.1
IV 600		55.7	58.8	64.6	68.0	70.6	75.1	78.3	79.1	81.6	83.1	84.6	85.1	85.3	85.5	85.7
IV 500		55.9	58.9	65.2	68.7	71.4	75.9	79.3	80.6	83.4	85.3	87.4	88.7	89.1	89.3	89.5
IV 400		55.9	58.9	65.3	68.9	71.6	76.5	80.0	81.2	84.7	87.0	88.9	90.4	91.5	91.7	92.1
IV 300		55.9	58.9	65.3	68.9	71.6	77.0	81.0	82.7	86.6	89.6	91.5	93.4	93.5	96.0	96.6
IV 200		55.9	58.9	65.3	68.9	71.6	77.4	81.4	83.1	87.4	90.4	92.3	94.5	96.6	97.9	99.4
IV 100		55.9	58.9	65.3	68.9	71.6	77.4	81.4	83.1	87.4	90.4	92.3	94.5	96.6	97.9	100.0
IV 0		55.9	58.9	65.3	68.9	71.6	77.4	81.4	83.1	87.4	90.4	92.3	94.5	96.6	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS 531



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

24197 BAW TOLZ GERMANY AAF

64-70

FC

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

6900-1100  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 5/16	≥ .4	≥ 0	
NO CEILING																	
≥ 20000		20.9	22.9	23.9	24.0	24.0	24.9	25.0	25.0	25.5	25.5	25.9	25.9	26.2	26.2	26.7	
18000		24.4	26.5	27.5	27.7	27.7	28.5	28.9	28.9	29.4	29.4	29.7	29.7	30.0	30.0	30.5	
16000		24.7	26.9	27.9	28.0	28.0	28.9	29.2	29.2	29.7	29.7	30.0	30.0	30.3	30.3	30.8	
14000		24.7	26.9	27.9	28.0	28.0	28.9	29.2	29.2	29.7	29.7	30.0	30.0	30.3	30.3	30.8	
12000		24.7	26.9	27.9	28.0	28.0	28.9	29.2	29.2	29.7	29.7	30.0	30.0	30.3	30.3	30.8	
10000		27.0	29.4	30.3	30.5	30.5	31.5	31.8	31.8	32.3	32.3	32.7	32.7	33.0	33.0	33.5	
9000		26.7	31.0	32.0	32.2	32.2	32.2	33.5	33.5	34.0	34.0	34.3	34.3	34.7	34.7	35.2	
8000		31.2	33.7	34.7	34.8	34.8	35.8	36.2	36.2	36.7	36.7	37.0	37.0	37.3	37.3	37.8	
7000		34.0	36.5	37.5	37.6	37.6	38.6	39.0	39.0	39.5	39.5	40.0	40.0	40.3	40.3	40.8	
6000		36.5	38.8	39.8	40.0	40.0	41.0	41.3	41.3	41.8	42.0	42.5	42.5	42.8	42.8	43.8	
5000		36.6	41.3	42.3	42.5	42.5	43.4	43.8	43.8	44.3	44.4	44.9	44.9	45.3	45.3	46.3	
4500		40.3	43.0	43.9	44.1	44.1	45.1	45.4	45.4	45.9	46.1	46.6	46.6	46.9	46.9	47.9	
4000		42.5	45.1	46.1	46.4	46.4	47.4	48.4	48.4	49.3	49.4	49.9	49.9	50.2	50.2	51.2	
3500		44.0	47.6	48.6	48.9	48.9	49.9	50.9	51.1	52.1	52.2	52.7	52.7	53.1	53.1	54.1	
3000		48.8	51.6	52.7	53.4	53.6	54.6	55.6	55.7	57.0	57.2	57.7	57.7	58.0	58.0	59.0	
2500		51.2	54.6	55.9	56.9	57.2	58.2	59.2	59.4	60.7	60.9	61.4	61.4	61.7	61.7	62.7	
2000		53.4	56.9	59.2	60.9	61.2	62.5	63.5	63.7	65.2	65.3	65.8	65.8	66.2	66.2	67.2	
1800		53.7	57.2	59.7	61.4	61.7	63.5	64.7	65.0	66.5	66.7	67.2	67.2	67.5	67.5	68.5	
1500		55.2	58.9	61.4	63.2	63.8	65.8	67.2	67.5	69.2	69.3	69.8	69.8	70.1	70.1	71.1	
1200		56.5	61.2	63.2	64.7	65.5	67.8	72.8	72.6	74.8	75.0	75.6	75.6	76.0	76.0	76.9	
1000		56.6	61.7	63.7	65.2	65.2	71.8	73.5	73.8	76.5	76.6	77.4	77.4	77.8	77.8	78.9	
900		56.6	61.7	63.7	65.2	65.2	71.8	73.5	73.8	76.5	76.6	77.4	77.4	77.8	77.8	78.9	
800		56.6	62.0	66.3	69.3	70.6	73.5	76.3	76.9	80.8	81.3	82.4	82.4	82.8	82.8	83.9	
700		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
600		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
500		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
400		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
300		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
200		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
100		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	
0		56.6	62.2	66.5	69.5	70.8	74.5	77.1	77.9	82.6	83.3	84.6	84.7	85.1	85.1	86.2	

TOTAL NUMBER OF OBSERVATIONS 603

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

34197  
STATION

BAU TOLZ GERMANY AAF  
STATION NAME

64-70  
YEARS

JFC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

120-140  
HOURS T.S.T.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ 5/8	≥ 2	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	19,9	21,1	22,5	22,6	22,8	23,0	23,2	23,2	23,2	23,2	23,2	23,2	23,2	23,2	23,2	23,2
IVM 18000 16000	24,5	25,7	27,3	27,4	27,6	28,0	28,1	28,1	28,1	28,1	28,1	28,1	28,1	28,1	28,1	28,1
IVM 14000 12000	25,0	26,2	27,8	28,0	28,1	28,5	28,6	28,6	28,6	28,6	28,6	28,6	28,6	28,6	28,6	28,6
IVM 10000 9000	26,4	27,6	29,2	29,3	29,5	29,8	30,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0
IVM 8000 7000	32,1	33,8	35,3	35,5	35,7	36,0	36,2	36,2	36,2	36,2	36,2	36,2	36,2	36,2	36,2	36,2
IVM 6000 5000	37,4	39,5	41,0	41,3	41,5	41,9	42,0	42,0	42,0	42,0	42,0	42,0	42,0	42,0	42,0	42,0
IVM 4500 4000	43,6	45,9	47,2	47,5	47,7	48,0	48,2	48,2	48,2	48,2	48,2	48,2	48,2	48,2	48,2	48,2
IVM 3500 3000	48,2	50,6	52,3	53,0	53,2	53,9	54,2	54,2	54,2	54,2	54,2	54,2	54,2	54,2	54,2	54,2
IVM 2500 2000	54,5	57,3	59,5	60,9	61,6	62,4	63,2	63,3	63,6	63,6	63,6	63,6	63,6	63,6	63,6	63,6
IVM 1800 1500	57,6	61,2	64,3	66,2	66,9	68,4	69,3	69,3	70,0	70,0	70,0	70,0	70,0	70,0	70,0	70,0
IVM 1200 1000	59,9	64,0	67,6	71,4	72,4	74,3	75,6	76,2	77,7	77,7	77,7	77,7	77,7	77,7	77,7	77,7
IVM 900 800	60,4	65,2	69,0	73,2	74,6	77,2	79,6	80,3	82,7	83,2	83,4	83,4	83,4	83,4	83,4	83,4
IVM 700 600	60,4	65,4	69,3	73,9	75,5	79,4	82,8	83,7	86,8	87,8	88,2	88,2	88,2	88,2	88,2	88,2
IVM 500 400	60,4	65,4	69,3	74,3	75,6	79,6	83,4	84,4	88,3	89,9	90,4	90,4	90,4	90,4	90,4	90,4
IVM 300 200	60,4	65,4	69,3	74,8	76,3	81,0	83,8	87,3	93,8	95,2	95,2	95,2	95,2	95,2	95,2	95,2
IVM 100 0	60,4	65,4	69,3	74,8	76,3	81,0	83,8	87,3	93,8	96,2	97,1	97,1	97,1	97,1	97,1	97,1

TOTAL NUMBER OF OBSERVATIONS 583

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# CEILING VERSUS VISIBILITY

54197 STATION BAF TOLZ GERMANY AAF

64-70 YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1969-1970 MONTHS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .75	≥ .58	≥ .5	≥ .516	≥ .4	≥ .3
NO CEILING																
≥ 20000	17.9	18.2	19.2	19.5	19.7	20.6	20.8	20.8	21.0	21.2	21.2	21.5	21.5	21.7	22.3	
IV 18000	21.0	21.7	23.2	23.6	23.8	24.7	24.9	24.9	25.0	25.2	25.2	25.6	25.6	25.8	26.3	
IV 16000	21.2	21.9	23.4	23.8	23.9	24.9	25.0	25.0	25.2	25.4	25.4	25.8	25.8	26.0	26.5	
IV 14000	21.2	21.9	23.4	23.8	23.9	24.9	25.0	25.0	25.2	25.4	25.4	25.8	25.8	26.0	26.5	
IV 12000	21.2	21.9	23.4	23.8	23.9	24.9	25.0	25.0	25.2	25.4	25.4	25.8	25.8	26.0	26.5	
IV 10000	21.7	22.5	23.9	24.3	24.5	25.4	25.6	25.6	25.8	26.0	26.0	26.3	26.3	26.7	27.3	
IV 9000	22.1	22.8	24.3	24.9	25.0	26.0	26.2	26.2	26.5	26.7	26.7	27.1	27.1	27.4	28.0	
IV 8000	24.9	25.6	27.1	27.6	27.8	28.7	28.9	28.9	29.3	29.5	29.5	29.8	29.8	30.2	30.9	
IV 7000	28.5	29.3	30.8	31.3	31.5	32.4	32.6	32.6	33.0	33.1	33.1	33.5	33.5	33.9	34.4	
IV 6600	30.4	31.1	32.6	33.3	33.5	34.8	35.0	35.0	35.4	35.5	35.5	35.9	35.9	36.3	36.9	
IV 5600	32.2	33.0	34.4	35.2	35.4	36.6	36.8	36.8	37.2	37.4	37.4	37.8	37.8	38.1	38.7	
IV 4500	34.6	35.4	36.8	37.9	38.1	39.4	39.6	39.6	40.0	40.1	40.1	40.5	40.5	40.9	41.4	
IV 4000	36.1	37.0	38.5	39.8	40.0	41.4	41.6	41.6	42.2	42.4	42.4	42.7	42.7	43.1	43.8	
IV 3500	39.4	40.3	41.8	43.1	43.3	44.8	44.9	44.9	45.5	46.0	46.0	46.4	46.4	46.8	47.5	
IV 3000	44.6	45.9	47.9	49.2	49.4	51.0	51.2	51.2	52.1	52.3	52.3	52.7	52.7	53.0	53.8	
IV 2500	49.9	51.6	54.3	55.8	56.0	57.6	57.8	57.8	58.7	58.9	58.9	59.3	59.3	59.7	60.4	
IV 2000	53.2	55.4	58.7	60.8	61.0	62.6	62.8	62.8	63.9	64.1	64.1	64.5	64.5	64.8	65.6	
IV 1800	53.6	56.4	60.4	62.6	62.8	64.6	64.8	64.8	65.9	66.1	66.1	66.5	66.5	66.9	67.6	
IV 1500	55.6	58.4	62.4	65.4	65.7	67.8	68.0	68.0	70.0	70.2	70.2	70.7	70.7	71.1	71.8	
IV 1200	56.2	59.1	63.7	66.9	67.4	69.4	70.2	71.3	71.6	73.3	73.3	73.8	73.8	74.2	74.6	75.3
IV 1000	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 900	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 800	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 700	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 600	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 500	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 400	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 300	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 200	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 100	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	
IV 0	56.2	59.1	63.7	67.4	68.0	71.6	72.9	73.3	75.7	76.6	76.6	76.9	77.2	77.5	78.3	

TOTAL NUMBER OF OBSERVATIONS 543

1

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

34197 STATION BAU TOLZ GERMANY AAF

65-70

UFC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1:0-2:00  
NO. OF DAYS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/8	≥ ½	≥ 3/8	≥ 0	
NO CEILING																
≥ 20000		15.2	17.2	18.0	18.2	18.7	19.2	20.0	20.0	20.8	20.8	21.0	21.0	21.0	22.0	22.0
18000		15.7	18.7	19.3	19.7	20.3	20.8	21.3	21.5	22.3	22.3	22.5	22.5	22.5	23.5	23.5
16000		16.7	19.2	20.0	20.3	20.8	21.3	22.0	22.0	22.8	22.8	23.0	23.0	23.0	24.1	24.3
14000		16.7	19.2	20.0	20.3	20.8	21.3	22.0	22.0	22.8	22.8	23.0	23.0	23.0	24.1	24.3
12000		16.7	19.2	20.0	20.3	20.8	21.3	22.0	22.0	22.8	22.8	23.0	23.0	23.0	24.1	24.3
10000		16.7	19.2	20.0	20.3	20.8	21.3	22.0	22.0	23.0	23.0	23.3	23.3	23.3	24.3	24.6
9000		17.2	19.7	20.5	20.8	21.3	21.8	22.5	22.5	23.5	23.5	23.8	23.8	23.8	24.8	25.1
8000		19.2	21.8	22.5	22.8	23.3	23.8	24.5	24.6	25.6	25.6	25.8	25.8	25.8	26.8	27.1
7000		22.3	24.8	26.1	26.3	26.8	27.2	28.1	28.1	29.1	29.1	29.4	29.4	29.4	30.4	30.6
6000		23.3	25.8	27.1	27.3	27.8	28.3	29.6	29.6	30.6	30.6	30.9	30.9	30.9	31.9	32.2
5000		25.6	28.1	29.4	29.6	30.1	31.1	31.9	31.9	32.9	32.9	33.2	33.2	33.2	34.2	34.4
4500		28.4	30.9	32.2	32.4	32.9	33.9	34.7	34.7	35.9	35.9	36.2	36.2	36.2	37.2	37.5
4000		29.6	32.2	33.4	33.7	34.2	35.2	35.9	35.9	37.2	37.2	37.5	37.5	37.5	38.5	38.7
3500		34.7	37.5	38.7	39.0	39.5	40.5	41.3	41.3	42.5	42.5	42.8	42.8	42.8	43.8	44.1
3000		37.0	39.7	42.5	42.8	43.3	44.8	45.6	45.6	46.8	46.8	47.1	47.1	47.1	48.1	48.4
2500		42.8	46.1	49.6	50.9	51.9	53.4	54.2	54.2	55.4	55.4	55.9	55.9	55.9	57.0	57.2
2000		44.8	48.6	53.2	55.2	56.5	58.0	58.7	58.7	60.0	60.0	60.8	60.8	60.8	61.8	62.0
1800		45.8	49.9	54.7	56.7	58.0	60.5	61.5	61.5	62.8	62.8	63.5	63.5	63.5	64.6	64.8
1500		47.8	52.9	58.0	60.5	61.8	65.1	67.3	67.3	69.1	69.1	70.1	70.4	70.4	71.4	71.6
1200		47.8	53.2	58.2	60.8	62.0	66.1	69.1	69.1	70.9	70.9	71.9	72.2	72.2	73.2	73.4
1000		47.8	53.2	58.2	60.8	62.0	67.1	70.4	70.4	72.2	72.2	73.2	73.4	73.4	74.4	74.7
900		47.8	53.2	58.2	60.8	62.0	67.1	71.1	71.1	73.2	73.2	74.2	74.4	74.4	75.4	75.7
800		47.8	53.2	58.2	60.8	63.5	69.5	73.7	74.2	76.5	76.5	78.0	78.2	78.2	79.2	79.5
700		47.8	53.2	58.2	60.8	63.5	69.5	74.4	74.9	77.5	77.5	79.0	80.0	80.5	81.5	81.8
600		47.8	53.2	58.2	60.8	64.1	70.4	75.7	76.5	79.0	79.0	80.8	81.8	82.5	83.5	83.8
500		47.8	53.2	58.2	60.8	64.1	70.4	75.7	76.7	79.7	79.7	82.3	84.1	85.6	86.6	86.8
400		47.8	53.2	58.2	60.8	64.1	70.4	75.9	77.0	80.0	80.0	82.5	84.3	86.1	87.3	87.6
300		47.8	53.2	58.2	60.8	64.1	70.4	75.9	77.5	80.8	80.8	84.6	86.6	88.6	89.1	90.6
200		47.8	53.2	58.2	60.8	64.1	70.4	76.5	78.0	81.5	81.5	86.1	88.1	90.6	91.6	93.9
100		47.8	53.2	58.2	60.8	64.1	70.4	76.5	78.0	81.5	81.5	86.1	88.1	90.6	91.6	94.7
0		47.8	53.2	58.2	60.8	64.1	70.4	76.5	78.0	81.5	81.5	86.1	88.1	90.6	91.9	100.0

TOTAL NUMBER OF OBSERVATIONS 395

## PART D

## SKY COVER

This summary is prepared from hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus sea. sky cover, and total number of observations. It is presented in two tables as follows:

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

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197  
 STATION

BAD TOLZ GERMANY AAF  
 STATION NAME

64-70  
 PERIOD

ALL  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	19.0	2.9	3.6	2.5	2.3	1.5	1.7	1.4	4.4	3.6	57.3	6.9	2544
FEB		21.7	2.9	1.8	6.3	2.2	1.7	1.9	1.5	5.0	4.7	51.5	6.6	2427
MAR		11.4	3.2	1.4	2.5	16.7	1.6	2.2	1.7	4.9	4.4	49.8	6.9	2972
APR		15.5	4.4	2.6	3.8	4.1	3.0	2.7	2.5	5.8	6.3	49.4	6.8	3041
MAY		14.4	3.9	2.3	3.9	5.6	4.1	3.1	3.4	6.3	6.8	46.4	6.8	2805
JUN		13.8	5.2	1.7	5.4	5.6	3.9	2.7	3.5	8.3	7.4	42.7	6.7	2615
JUL		10.3	8.6	2.5	4.3	4.3	3.3	2.7	1.8	10.4	7.7	44.2	6.8	2508
AUG		21.3	5.2	1.7	3.8	3.7	4.5	3.9	2.4	7.4	9.1	37.2	6.1	2709
SEP		19.2	6.8	3.2	5.7	5.3	3.2	4.2	3.2	7.7	7.3	34.3	5.8	2728
OCT		36.8	5.6	2.1	8.8	3.7	2.2	2.5	2.3	4.2	4.8	27.0	4.4	2733
NOV		9.5	4.2	1.1	2.3	2.7	1.9	3.1	1.9	3.7	7.1	60.6	7.8	2847
DEC		10.1	3.0	1.1	2.9	2.3	1.4	2.2	1.5	5.7	5.7	63.0	7.9	2641
TOTALS		16.9	4.7	2.0	4.4	4.9	2.7	2.7	2.3	6.3	6.3	47.0	6.6	32568

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TOLZ GERMANY AAF

65-70

JAN

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JAN	00-02											100.0	10.0	2
	03-05	12.4	3.6	3.7	4.0	4.0	1.8	3.1	1.8	4.4	3.6	58.7	7.3	225
	06-08	9.2	4.5	2.5	3.1	2.9	1.3	2.9	2.5	4.9	3.4	62.9	7.7	447
	09-11	9.7	3.1	3.5	3.1	2.1	1.9	1.4	2.1	7.9	8.1	57.9	7.8	516
	12-14	11.4	3.4	1.2	3.6	3.8	2.8	1.8	2.4	10.4	4.4	54.6	7.4	498
	15-17	11.2	3.5	1.4	4.3	3.5	2.2	1.8	1.4	2.9	5.5	61.4	7.6	492
	18-20	14.5	5.0	1.7	2.2	2.0	1.7	2.5	.6	3.6	3.6	62.6	7.4	358
	21-23	83.3		16.7									.3	6
TOTALS		19.0	2.9	3.6	2.5	2.3	1.5	1.7	1.4	4.4	3.6	57.3	6.9	2544

DATA PROCESSING DIVISION  
STAC/USAF  
AIR WEATHER SERVICE/MAC

SKY COVER

34197 8AP TOLZ GERMANY AAF

65-10

FEB

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS		
		0	1	2	3	4	5	6	7	8	9			10	
FEB	00-02	50.0			16.7								33.3	3.8	6
	03-05	18.9	2.9	.4	2.9	1.2	2.5	.4	2.5	3.3	4.1	60.9	7.2	243	
	06-08	14.2	3.7	1.9	1.9	1.9	1.6	3.3	1.2	7.7	4.9	57.9	7.4	430	
	09-11	10.1	3.7	1.5	2.8	3.0	1.1	1.9	1.3	10.1	8.6	55.9	7.7	465	
	12-14	10.2	2.4	.4	2.8	5.2	3.7	3.0	2.6	5.6	8.0	56.0	7.6	461	
	15-17	7.6	6.3	1.3	2.2	2.6	3.0	2.8	2.0	7.2	8.3	56.7	7.7	460	
	18-20	12.4	4.2	.6	4.2	3.4	1.7	3.7	2.5	3.9	3.7	57.9	7.4	356	
	21-23	50.0			16.7							33.3	3.8	6	
	TOTALS	21.7	2.9	.6	6.3	2.2	1.7	1.9	1.5	5.0	4.7	51.5	6.6	2427	



1 DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TOLZ GERMANY AAF 65-70 AR  
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS		
		0	1	2	3	4	5	6	7	8	9			10	
MAR	00-02														
	03-05	17.4	4.0		2.9	2.9	1.4	1.4	1.8	4.3	2.2	61.6	7.2	276	
	06-08	10.9	3.9	2.2	2.5	2.5	1.4	1.8	1.8	6.3	4.8	61.8	7.7	558	
	09-11	12.4	4.3	1.1	3.2	2.7	2.5	2.3	1.8	3.7	7.7	56.2	7.4	557	
	12-14	11.5	2.4	1.6	3.0	3.0	2.2	4.1	2.9	5.6	6.5	56.3	7.5	558	
	15-17	12.6	2.7	3.1	2.0	2.5	1.6	2.7	2.0	8.3	4.9	57.7	7.5	556	
	18-20	15.1	4.3	1.5	3.9	3.2	2.4	2.4	1.9	4.1	5.0	55.2	7.1	464	
	21-23					100.0							4.0	1	
TOTALS		11.4	3.2	1.4	2.5	16.7	1.6	2.2	1.7	4.9	4.4	49.8	6.9	2970	

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TDLZ GERMANY AAF  
STATION STATION NAME

65-70  
PERIOD

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
APR	00-02	28.8	3.4	5.1	3.4	5.1	1.7	1.7	3.4	1.7	3.4	42.4	5.5	59
	03-05	20.4	4.8	1.6	2.4	5.2	4.0	2.8	1.6	4.4	5.6	47.2	6.4	250
	06-08	14.5	3.4	2.0	3.7	2.6	1.9	3.7	1.7	4.8	6.0	55.7	7.2	537
	09-11	12.5	5.8	1.9	3.0	2.8	2.8	3.4	2.6	6.9	3.8	52.5	7.1	535
	12-14	7.9	4.9	.9	3.7	4.3	3.6	3.4	2.6	8.4	2.3	51.0	7.5	535
	15-17	7.5	4.1	1.3	3.9	3.2	3.9	3.4	2.1	9.0	10.9	50.7	7.6	534
	18-20	12.6	3.1	.9	3.5	4.7	3.3	2.3	2.3	8.5	5.4	52.6	7.2	485
	21-23	19.8	5.7	5.7	6.6	4.7	2.8	.9	3.8	2.8	3.8	43.4	5.	106
TOTALS		157.5	44.4	27.6	37.8	41.1	37.0	27.7	27.5	57.8	67.3	497.4	6.8	3041

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TOLZ GERMANY AAF

65-70

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
MAY	00-02	36.8		2.6	2.6	5.3	5.3		5.3	2.6	5.3	34.2	5.1	38
	03-05	13.6	6.0	2.5	2.5	5.0	3.0	2.0	4.0	11.6	7.0	42.7	6.8	199
	06-08	12.5	6.5	1.9	2.8	3.7	3.5	1.7	3.9	4.5	6.9	52.1	7.1	537
	09-11	7.8	6.7	1.9	2.4	4.1	3.9	4.3	2.8	6.3	7.6	52.1	7.4	536
	12-14	3.1	3.1	2.5	3.1	5.0	5.2	5.2	2.5	9.5	9.9	51.1	7.9	524
	15-17	1.9	2.5	2.5	5.2	6.5	5.8	4.0	3.1	6.3	10.4	51.8	7.9	521
	18-20	6.6	6.1	2.6	3.8	6.9	4.1	4.3	3.6	3.9	7.1	49.0	7.2	392
	21-23	32.8		1.7	8.6	8.6	1.7	3.4	1.7	3.4		37.9	5.1	58
TOTALS		147.4	3.9	2.3	3.9	3.6	4.1	3.1	3.4	6.3	6.8	46.4	6.8	2805

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

# SKY COVER

34197    BAD TOLZ GERMANY AAF    65-70    JUN  
STATION                                  STATION NAME                                  PERIOD                                  MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JUN	00-02	33.3			11.1	11.1				11.1		33.3	5.0	9
	03-05	10.7	7.3	3.4	7.3	6.3	3.4	1.5	3.9	5.8	2.4	48.1	6.6	206
	06-08	16.1	6.9	2.7	5.0	4.8	2.3	1.9	2.9	7.1	6.7	43.6	6.4	321
	09-11	7.9	9.2	2.7	7.9	5.6	2.5	2.9	2.5	6.9	6.2	45.8	6.8	320
	12-14	3.9	8.2	2.0	4.5	5.5	5.7	6.3	2.9	8.2	11.9	40.9	7.2	311
	15-17	4.0	5.6	1.8	4.0	6.4	5.2	4.6	2.2	9.6	11.6	45.2	7.5	302
	18-20	6.9	4.5	.9	3.3	4.8	2.7	4.5	4.5	8.4	11.6	48.1	7.6	335
	21-23	27.3					9.1		9.1	9.1	9.1	36.4	6.3	11
TOTALS		13.8	5.2	1.7	5.4	5.6	3.9	2.7	3.5	8.3	7.1	42.7	6.7	2615

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TLZ GERMANY AAF  
 STATION STATION NAME

68-70  
 PERIOD

JUL  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS		
		0	1	2	3	4	5	6	7	8	9			10	
JUL	00-02														
	03-05	20.0	8.6	5.9	5.9	4.5	3.6	2.7	.9	4.1	5.5	38.2	5.6	220	
	06-08	19.2	7.5	3.8	3.0	4.8	2.8	2.0	2.4	3.4	7.1	44.2	6.2	503	
	09-11	13.7	9.7	1.2	5.6	5.4	2.4	3.6	1.6	7.4	8.9	40.6	6.4	503	
	12-14	5.6	10.5	2.1	5.6	6.4	5.4	3.1	3.3	10.3	9.7	38.0	6.8	484	
	15-17	4.2	12.3	2.0	5.0	4.2	3.7	3.7	2.2	11.0	12.1	37.7	6.9	456	
	18-20	9.2	11.6	2.7	5.1	4.8	3.0	3.6	2.1	11.9	10.7	35.4	6.5	336	
	21-23									25.0		75.0	9.5	4	
	TOTALS	109.2	8.6	2.8	4.3	4.3	3.3	2.7	1.8	10.4	7.7	44.2	6.8	2508	

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197 849 TOLZ GERMANY AAF

65-70

100

STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9	10			
AUG	00-02	100.0												6.0	1
	03-05	11.1	5.8	2.1	6.6	3.7	2.1	2.9	4.1	10.7	6.2	44.9	6.9	243	
	06-08	11.0	7.7	2.2	5.1	4.9	3.6	3.0	2.1	6.2	9.9	44.4	6.8	534	
	09-11	9.8	9.8	2.3	5.1	3.0	3.4	3.2	3.4	9.0	10.3	40.9	6.8	533	
	12-14	5.4	6.2	3.5	5.6	5.8	4.4	4.2	2.7	10.4	10.8	40.9	7.1	518	
	15-17	5.7	4.7	2.0	5.1	6.9	4.3	3.9	3.3	8.1	16.1	37.9	7.2	491	
	18-20	7.2	7.2	1.3	3.2	5.1	4.5	3.3	3.2	8.3	12.8	41.7	7.2	374	
	21-23	20.0					13.3	6.7		6.7	6.7	46.7	6.9	15	
TOTALS		21.3	6.2	1.7	3.6	3.7	4.5	3.9	2.4	7.4	9.1	37.2	6.1	2709	

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TOLZ GERMANY AAF

64-70

SEP

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
SEP	00-02	41.9			6.5	3.2		6.5	3.2	12.9	3.2	22.6	4.5	31
	03-05	19.9	3.4	3.4	7.6	5.5	4.2	6.4	3.0	4.7	4.7	37.3	5.9	236
	06-08	13.6	7.1	1.8	7.3	4.9	3.6	3.4	1.2	6.5	12.3	38.3	6.4	506
	09-11	14.6	7.2	2.8	7.6	3.8	4.0	2.1	4.0	7.6	8.1	38.3	6.3	528
	12-14	8.1	10.3	2.4	4.9	7.1	3.4	5.9	3.6	10.8	9.9	33.7	6.5	507
	15-17	8.4	10.1	2.1	5.2	6.7	4.3	3.2	4.1	10.1	10.7	35.2	6.5	466
	18-20	13.4	7.0	2.3	4.9	7.0	5.9	4.9	2.1	5.7	8.2	38.7	6.3	388
	21-23	33.3	9.1	10.6	1.5	4.5		1.5	4.5	3.0	1.5	30.3	4.3	66
TOTALS		19.2	6.8	3.2	5.7	5.3	3.2	4.2	3.2	7.7	7.3	34.3	5.8	2728

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

SKY COVER

34197 8AP TOLZ GERMANY AAF

65-70

OCT

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS	
		0	1	2	3	4	5	6	7	8	9	10			
OCT	00-02	100.0												0	2
	03-05	33.8	4.4	2.5	3.8	5.1	2.5	3.4	3.1	5.1	1.7	35.4	5.0	237	
	06-08	18.2	7.5	2.2	6.4	3.7	2.2	2.4	3.7	5.8	8.1	39.7	6.1	534	
	09-11	18.4	9.5	3.7	4.2	4.3	3.2	3.2	3.7	6.3	7.3	36.1	5.9	537	
	12-14	18.1	9.5	3.2	5.9	6.5	3.4	1.9	3.4	5.7	7.4	35.0	5.7	526	
	15-17	18.5	8.9	3.2	5.5	2.2	2.4	4.7	3.9	5.5	8.9	36.3	6.0	507	
	18-20	27.5	4.9	1.6	4.4	7.5	4.2	4.4	1.8	4.9	4.9	33.8	5.3	385	
	21-23	60.0			40.0								1.2	5	
TOTALS		269.8	3.6	2.1	8.8	3.7	2.2	2.5	2.3	4.2	4.8	27.0	4.4	2733	



DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

SKY COVER

34197 BAD TOLZ GERMANY AAF 65-70  
 STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.		
		0	1	2	3	4	5	6	7	8	9	10				
NOV	00-02															
	03-05	20.7	1.1	.8	1.9	1.5		2.6	1.1	6.4	3.0	60.9	7.3	266		
	06-08	9.4	5.1	1.1	2.1	3.4	1.7	2.6	.7	4.5	7.7	61.6	7.8	534		
	09-11	6.6	4.9	.6	2.3	1.1	1.1	3.8	2.6	5.3	10.9	61.0	8.1	533		
	12-14	3.7	5.8	1.9	2.1	2.2	2.2	2.8	3.0	5.8	9.0	61.4	8.2	534		
	15-17	4.9	5.1	.2	2.4	3.4	2.6	2.6	2.4	5.6	8.4	62.4	8.2	534		
	18-20	11.4	3.1	2.2	3.1	4.7	3.8	4.0	1.8	6.5	3.4	55.8	7.3	448		
	21-23															
TOTALS		9.5	4.2	1.1	2.3	2.7	1.9	3.1	1.9	5.7	7.1	60.6	7.8	2847		

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### SKY COVER

34199 6AB TOLZ GERMANY AAF

65-70

DEC

STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS		
		0	1	2	3	4	5	6	7	8	9			10	
DEC	00-02														
	03-05	17.7	1.4	2.3	5.0	.9	.9	.9	1.8	7.7	3.2	58.2	7.2	220	
	06-08	9.5	3.0	1.4	2.6	4.4	2.4	3.8	1.8	5.4	5.2	60.6	7.7	503	
	09-11	7.4	3.8	1.1	3.2	2.5	1.3	2.1	1.3	5.7	13.0	58.4	8.0	524	
	12-14	8.9	2.9	.4	2.5	2.3	1.7	1.4	2.7	8.3	8.3	60.5	8.0	516	
	15-17	6.0	4.3	.8	2.5	1.9	1.0	2.5	1.0	3.7	6.0	70.2	8.3	483	
	18-20	11.1	2.8	.8	1.8	2.0	.8	2.5	.5	3.3	4.3	70.1	8.1	395	
	21-23														
TOTALS		10.1	3.0	1.1	2.9	2.3	1.4	2.2	1.5	5.7	6.7	63.0	7.9	2641	

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## 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 presentation 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 deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

DATA NOT AVAILABLE

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
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 all 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 vertically. Also provided for each dry-bulb temperature interval 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 require two pages in some cases.

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 ( $\sigma X$ ). The number of observations used in the computations 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 tabulations 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 1953; 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 available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. 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.

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/TAC

### PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
STATION STATION NAME

64-70  
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	DB	WB	Dry Bulb	Wet Bulb	Dew Point																			
94/ 93																																										
90/ 89																																										
88/ 87																																										
86/ 85																																										
84/ 83																																										
82/ 81																																										
80/ 79																																										
78/ 77																																										
76/ 75																																										
74/ 73																																										
72/ 71																																										
70/ 69																																										
68/ 67																																										
66/ 65																																										
64/ 63																																										
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48/ 47																																										
46/ 45																																										
44/ 43																																										
42/ 41																																										
40/ 39																																										
38/ 37																																										
36/ 35																																										
34/ 33																																										
32/ 31																																										
30/ 29																																										
28/ 27																																										
26/ 25																																										
Element (X)	$\Sigma X^2$	$\Sigma X$																															$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.																																				$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb																																										
Wet Bulb																																										
Dew Point																																										

USAF ETAC FORM 0-26-5 (OL A) REPROD REVISED EDITIONS OF THE FORM AIR ORIGINATE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

64-70

YEARS

MONTH

PAGE 2

HOURS 11,51

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	DB	W.B.	Dry Bulb	Wet Bulb	Dew Point														
24/ 23	.9	.8	.1																															612	602	270	100	
22/ 21	.7	.3																																429	427	211	70	
20/ 19	.6	.4																																365	370	170	10	
18/ 17	.6	.3																																294	29	130	40	
16/ 15	.4	.2	.0																															191	21	20	4	
14/ 13	.3	.1																																142	144	14	2	
12/ 11	.2	.2																																117	127	11	1	
10/ 9	.2	.1																																115	12	10	14	
8/ 7	.1	.1																																56	6	1	1	
6/ 5	.1	.1																																64	7	1	1	
4/ 3	.1	.0																																35	19	4	7	
2/ 1	.1	.0																																23	24	2	45	
0/ -1	.1	.0																																22	28	2	37	
-2/ -3	.0	.0																																13	11	1	2	
-4/ -5	.0																																	1	1	1	25	
-6/ -7	.0																																	1	1	1	10	
-8/ -9	.0																																	1	1	1	1	
-10/ -11	.0																																	3	2	1	1	
-12/ -13	.0																																	1	2	1	1	
-14/ -15	.0																																				1	1
-16/ -17	.0																																				1	1
TOTAL	17.8	33.1	17.4	10.0	7.6	5.8	3.9	2.3	1.3	.5	.2	.1	.0	.0																					33192		33192	
Element (X)	Zx'	Zx	X	x'	No. Obs.	Mean No. of Hours with Temperature					Total																											
Rel. Hum.	20808323	2567233	77,316,937	33192	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																											
Dry Bulb	78542408	1528260	46,015,794	33247	20,0	1860,0	974,0	411,0	97,4	.3	76																											
Wet Bulb	64765322	1400546	42,213,069	33192	17,8	2162,3	79,9	.6			76																											
Dew Point	54505789	1276713	38,512,752	33192	46,6	3018,2	2,7				876																											

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197     BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

DATE 1

HOURS U.S.T.

FORM 0-26-5 (OLA)    REVISED BY VICUS ERRORS OF THIS FORM ARE OBSOLETE  
 USAF ETAC

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	DB	W.B.	Dry Bulb	Wet Bulb	Dew Point													
56/55						.1	.0											3	3																
54/53						.1												2	2																
52/51					.2	.2												2	2																
50/49				.1	.4													13	13																
48/47			.2	.3	.5	.0												24	24																
46/45		.0	.5	.6	.2													33	33																
44/43		.2	.7	1.2	.1													52	52	4	1														
42/41		.1	1.4	.8	.1													62	62	4	1														
40/39		1.6	2.3	.8	.0													117	117	6	7														
38/37	.2	2.4	2.9	.3														148	148	12	24														
36/35	1.1	6.6	2.3	.2	.0													261	261	19	17														
34/33	4.0	6.9	1.2	.2														308	308	29	21														
32/31	3.6	3.7	1.2	.1														215	215	27	3														
30/29	3.0	4.1	.6															194	194	23	7														
28/27	3.3	3.1	.7															185	185	19	5														
26/25	2.9	2.8	.1															147	147	17	2														
24/23	2.8	2.3	.2															136	136	16	19														
22/21	2.7	1.2	.3															97	97	11	12														
20/19	2.4	1.6	.0															102	102	9	13														
18/17	2.4	1.1	.0															90	92	9	11														
16/15	2.0	.8	.1															72	73	8	9														
14/13	1.5	.6																53	55	5	1														
12/11	.9	.9																64	51	4	6														
10/9	1.0	.8																44	48	4	2														
8/7	.4	.4																22	23	2	3														
6/5	.6	.5																28	28	2	3														
4/3	.5	.2																18	20	2	3														
2/1	.2																	6	6	1	1														
0/-1	.4																	9	12	1	2														
-2/-3	.3	.0																9	10	1	2														
-4/-5	.2																	6	7	1	2														
-6/-7	.2																	6	7	1	2														
-8/-9	.2																	5	5	1	2														
-10/-11	.1																	3	3	1	2														

Element (X)	Z <sub>X</sub> <sup>2</sup>	Z <sub>X</sub>	X̄	s <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												





DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 STATION BAD TOLZ GERMANY AAF 65-70 YEARS MONTH

PAGE 1 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	DB. W.B. Dry Bulb	Wet Bulb	Dew Point															
66/65																		1	1																
64/63									.2									4	4																
62/61																		1	1																
60/59										.0	.0							2	2																
58/57										.1	.2							11	11																
56/55										.1	.4							20	20																
54/53										.2	.4							26	26																
52/51		.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0						26	26																
50/49					.3	.4	.5	.6	.7	.8	.9	1.0						29	29																
48/47					.8	.9	1.0	1.1	1.2	1.3	1.4	1.5						36	36																
46/45		.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1						66	66	2															
44/43		1.4	1.4	1.7	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4						123	123	2															
42/41	.0	1.8	2.1	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9						118	118	122															
40/39	.2	2.7	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9						176	176	137															
38/37	.4	3.2	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5						173	173	151															
36/35	1.1	4.3	4.8	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6						225	225	221															
34/33	1.8	5.3	5.8	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6						231	231	237															
32/31	2.2	4.5	5.0	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8						195	195	233															
30/29	2.5	3.6	4.1	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9						179	179	247															
28/27	2.4	3.1	3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4						160	160	154															
26/25	1.7	3.2	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5						135	135	163															
24/23	2.0	2.6	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9						122	122	144															
22/21	1.7	2.1	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4						95	95	117															
20/19	1.9	1.9	2.4	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2						92	92	102															
18/17	1.4	1.0	1.5	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3						57	57	71															
16/15	.7	.7	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0						33	33	41															
14/13	.4	.4	.9	.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7						18	18	17															
12/11	.4	.3	.8	.8	.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6						17	17	21															
10/9	.6	.2	.7	.7	.8	.9	1.0	1.1	1.2	1.3	1.4	1.5						20	20	23															
8/7	.4	.0	.5	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3						10	11	9															
6/5	.2	.1	.6	.6	.7	.8	.9	1.0	1.1	1.2	1.3	1.4						8	10	8															
4/3	.2	.0	.5	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3						6	8	7															
2/1	.2	.0	.4	.4	.5	.6	.7	.8	.9	1.0	1.1	1.2						5	5	5															
0/0	.2	.0	.3	.3	.4	.5	.6	.7	.8	.9	1.0	1.1						5	5	5															
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature						Total																		
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAF ETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
 MAR 64

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34107 BAD TOLZ GERMANY AAF

65-70

YEARS

MONTH

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-5	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	DB WB	Dry Bulb	Wet Bulb	Dew Point														
2/-3		.0																1	1		4														
4/-5																																			
10/-11																																			
TOTAL	22.5	43.9	20.2	7.2	3.1	1.5	.9	.5	.2	.0								2424	2431	424	424														
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	19901923	193345	79.7	14.237	2426	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	672																							
Dry Bulb	2798478	78846	32.4	9.963	2431	1.7	321.5					672																							
Wet Bulb	2386525	73339	30.2	8.359	2426	1.7	378.4					672																							
Dew Point	1863781	64073	26.4	8.408	2426	5.8	513.3					672																							

USAFETAC FORM 0-26-5 (OL-A) JUL 64  
 REVISIONS INDICATED BY THIS FORM ARE OBSOLETE





DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

LL  
 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	DB	WB	Dr.	Bulb	Wet Bulb	Dew Point														
82/81																																			1	1		
80/79																																			1	1		
78/77																																			6	6		
76/75																																			11	11		
74/73																																			9	9		
72/71																																			7	7		
70/69																																			21	21		
68/67																																			23	23		
66/65																																			39	39		
64/63																																			63	63		
62/61																																			86	86		
60/59																																			98	98		
58/57																																			114	114		36
56/55																																			135	135		45
54/53																																			103	103		71
52/51																																			135	135		117
50/49																																			197	197		174
48/47																																			208	208		273
46/45																																			213	213		256
44/43																																			237	237		257
42/41																																			207	207		256
40/39																																			210	210		276
38/37																																			179	179		265
36/35																																			160	160		232
34/33																																			221	221		282
32/31																																			165	165		225
30/29																																			82	82		145
28/27																																			56	56		72
26/25																																			19	19		30
24/23																																			7	7		9
22/21																																			7	7		7
20/19																																			1	1		2
18/17																																			4	4		4
16/15																																						
Element (X)	ΣX <sup>2</sup>		ΣX		X̄		s <sub>x</sub>		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) REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64









DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/TAC

### PSYCHROMETRIC SUMMARY

34197 BAW TOLZ GERMANY AAF 65-7) PAGE 1  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29	30	+31	DB	WB	Dry Bulb	Wet Bulb	Dew Point													
90/89														.0												1		1								
88/87												.1		.1												4		4								
86/85								.0		.2	.1	.2													12		12									
84/83							.3	.1	.2	.3	.2	.2	.1												3		3									
82/81						.0	.0	.6	.5	.6	.2	.1													5		5									
80/79					.0	.2	1.0	.9	1.1	.2	.1														89		89									
78/77					.1	1.0	.9	1.0	.6	.1															9		9									
76/75				.1	.4	1.1	1.8	.5	.2	.0															106		106									
74/73				.2	.9	2.0	1.0	.4	.2																11		11									
72/71		.1	.7	1.7	2.3	.5	.4	.0																	13		13									
70/69		.1	1.3	2.7	1.6	1.0	.1	.0																	173		173									
68/67	.0	.9	1.8	2.1	1.7	.7	.1																		181		181									
66/65	.3	1.7	1.7	1.8	1.2	.3	.0																		17		17									
64/63	.7	2.2	1.3	1.6	.6	.2																			162		162									
62/61	.0	1.4	2.1	1.7	1.2	.4	.0																		172		172									
60/59	.1	2.1	1.9	2.0	.9	.2																			179		179									
58/57	.9	3.0	1.5	1.0	.3	.1																			171		171									
56/55	.9	2.7	1.5	.7	.2	.0																			14		14									
54/53	.7	2.8	1.6	.4	.1																				141		141									
52/51	.3	2.3	2.0	.2	.0																				122		122									
50/49	.7	2.2	.7																						91		91									
48/47	1.0	1.7	.2																						73		73									
46/45	.8	1.1	.1																						5		5									
44/43	.4	.6	.0																						26		26									
42/41	.2	.0																							6		6									
40/39																																				
39/37																																				
TOTAL	5.6	21.0	16.5	13.3	13.7	12.6	8.2	4.1	3.3	.7	.6	.1	.1	.0											2514		2514									

USAFETAC FORM 0-26-5 (OLA) 31-64  
 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/4AC

## PSYCHROMETRIC SUMMARY

34197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

65-70  
YEARS

YEARS

MONTH

PAGE 1

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point																	
94/93																																		1					
90/89																																			5				
86/87																																				1			
86/85																																				14		14	
84/83																																				14		14	
82/81																																				27		27	
80/79																																			31		31		
78/77																																			47		47		
76/75																																				53		53	
74/73																																				88		88	
72/71																																				118		118	
70/69																																				151		151	
68/67																																				166		166	
66/65																																				158		158	
64/63																																				176		176	
62/61																																				195		195	
60/59																																				233		233	
58/57																																				250		250	
56/55																																				273		273	
54/53																																				211		211	
52/51																																				142		142	
50/49																																				123		123	
48/47																																				107		107	
46/45																																				58		58	
44/43																																				26		26	
42/41																																				10		10	
40/39																																				9		9	
38/37																																				2		2	
36/35																																				1		1	
TOTAL	10.2	28.5	16.3	12.7	10.2	9.6	6.1	2.7	1.7	.8	.8	.3	.1																								2712		2712
																																					2712		2712
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total																												
Rel. Hum.	16572237	266925	76.3	17.011	2712	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																											
Dry Bulb	10261677	164977	60.8	9.126	2712			200.5	81.2	22.8	.3	744																											
Wet Bulb	8533301	121329	44.7	5.764	2712			18.4				744																											
Dew Point	7537373	142323	52.5	5.023	2712							744																											

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

USAF ETAC FORM 44 0-26-5 (OL A)

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      64=70

STATION    STATION NAME    YEARS    MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	19-20	21-22	23-24	25-26	27	28	29	30	31	DB	WB	Dry Bulb	Wet Bulb	Dew Point											
84/83								.0	.1	.1											3	3														
82/81								.2	.3	.1	.0										19															
80/79							.3	.3	.1												2	2														
78/77				.0	.0	.0	.2	.4	.3	.1											25	22														
76/75				.0	.2	.4	.9	.5	.1	.1											40	32														
74/73				.2	.4	.8	1.1	.5	.1	.0											61	40														
72/71				.3	.8	1.1	1.2	.3	.0												77	70														
70/69		.2	.5	1.3	2.3	1.2		.0													116	124	4													
68/67		.2	.8	2.2	1.2	1.2	.1	.0													159	149	4													
66/65		.2	.5	2.2	1.2	1.2	.1	.0													135	123	7	7												
64/63		.2	.8	2.2	1.2	1.2	.1	.0													199	109	2													
62/61	.0	.8	2.2	1.9	1.8	.4	.0	.1													197	127	211	41												
60/59	.2	1.3	2.2	1.6	1.4	.4	.1														275	275	29	14												
58/57	.8	3.7	2.2	1.8	1.2	.3	.0														225	225	33	271												
56/55	.9	3.9	2.3	1.7	.5	.0															224	224	22	373												
54/53	1.1	3.0	2.5	1.4	.2	.0															200	200	27	313												
52/51	1.4	3.3	2.1	.6																	215	215	3	4												
50/49	1.8	4.0	1.6	.4																	186	156	29	35												
48/47	2.6	3.1	1.0	.1																	131	131	19	322												
46/45	2.4	2.0	.4																		79	79	12	2												
44/43	1.5	1.4	.0																		33	23	5	14												
42/41	.8	.4																			19	18	1	65												
40/39	.4	.2	.0																		15	15	1	29												
38/37	.4	.1	.0																		7	7	1	11												
36/35	.1	.1																			8	8	1	12												
34/33	.2	.0																			4	4	4													
32/31	.1	.0																																		
30/29																																				
<b>TOTAL</b>	<b>14.7</b>	<b>27.8</b>	<b>18.2</b>	<b>14.2</b>	<b>11.9</b>	<b>7.1</b>	<b>3.1</b>	<b>1.5</b>	<b>.8</b>	<b>.5</b>	<b>.1</b>									<b>2730</b>	<b>2730</b>	<b>2730</b>	<b>2730</b>													

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

Element (X)	Zx'	Zx	X	X'	No Obs.	Mean No. of Hours with Temperature					
Rel. Hum.	17670339	215373	78.9	15.777	2730	$\leq 0$ F	$\leq 32$ F	$\leq 67$ F	$\leq 73$ F	$\geq 80$ F	Total
Dry Bulb	9011438	155064	56.8	8.642	2730		1.1	97.6	30.1	5.8	720
Wet Bulb	7667247	143729	52.6	6.060	2730		1.1	1.3			720
Dew Point	6613704	135564	49.7	5.481	2730		2.4	.3			720

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

### PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

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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	Dry Bulb	Wet Bulb	Dew Point	Dew Point												
78/77																								4	4										
76/75																								7	7										
74/73																								1	1										
72/71																								3	3										
70/69																								4	4										
68/67																								5	5										
66/65																								11	11										
64/63																								10	10										
62/61																								12	12	27	1								
60/59																								13	13	77	6								
58/57																								15	15	144	41								
56/55																								18	18	22	42								
54/53																								21	21	744	144								
52/51																								19	19	231	25								
50/49																								22	22	254	30								
48/47																								16	16	274	29								
46/45																								20	20	237	297								
44/43																								17	17	217	213								
42/41																								16	16	224	255								
40/39																								17	17	212	270								
38/37																								16	16	165	242								
36/35																								10	10	164	177								
34/33																								7	7	103	224								
32/31																								4	4	65	124								
30/29																								2	2	29	84								
28/27																								2	2	24	30								
26/25																								6	6	12	17								
24/23																								1	1	1	14								
22/21																																			
20/19																																			
TOTAL	15,233	119,710	6	7.5	6.1	3.8	2.5	1.1	.1	.0														2933	2933	2933	744								

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/YAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

64-70  
 YEARS

Page 1  
 HOURS 1 5 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	DB WB	Dry Bulb	Wet Bulb	Dew Point														
72/71								.1	.0									2	2																
70/69								.0	.1									4	4																
68/67								.1	.2	.0								12	12																
66/65								.1	.2	.0								12	12																
64/63								.1	.5	.2	.0							24	24																
62/61				.0	.0	.1	.3	.2	.0									21	21																
60/59						.1	.4	.4	.0									31	31																
58/57				.1	.4	.7	.4	.2	.0									42	42																
56/55			.1	.3	.6	.5	.1	.0										44	44																
54/53			.1	.4	.7	.2	.1											44	44	22															
52/51		.0	.2	1.0	.5	.1												6	6	33															
50/49	.0	.1	.8	1.2	.8	.1												91	91	6	4														
48/47	.1	.1	1.5	.8	.3	.0												173	173	9	14														
46/45	.2	1.8	2.9	1.4	.4	.1												206	214	157	43														
44/43	.6	2.2	2.7	1.0	.2													181	171	137	171														
42/41	1.0	3.6	2.3	.6	.1													229	229	237	144														
40/39	1.8	4.6	1.9	.3														260	267	226	231														
38/37	1.9	4.0	1.8	.2														240	240	227	312														
36/35	2.9	5.1	1.7	.1														275	273	224	347														
34/33	2.8	3.8	1.0	.0														232	232	221	42														
32/31	4.0	4.1	.5															253	263	254															
30/29	3.0	2.5	.4															187	180	252															
28/27	3.7	2.7	.2															202	202	197															
26/25	1.6	1.7	.1															102	102	117	133														
24/23	.5	1.8	.1															73	73	83	162														
22/21	.7	.5																37	37	53	102														
20/19	.6	.2																24	26	23	73														
18/17	.3	.1																11	11	14	3														
16/15	.1	.1																6	6	7	14														
14/13																		2	2	2	7														
12/11	.0	.1																3	7	2	11														
10/9	.2	.0																7	7	1	3														
8/7	.0	.0																2	2	1	7														
6/5	.0	.0																2	2	3	3														
Element (X)	Zx'	Zx	X	%x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 8-64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

PAGE 1

MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29	30	31	D.B	W.B	Dry Bulb	Wet Bulb	Dew Point												
54/53				.0	.1														2	2															
52/51			.1																3	3															
50/49			.1	.1	.1														6	6															
48/47			.1	.3	.2	.1													21	21															
46/45			.3	.5	.5	.0													33	33															
44/43		.3	1.0	.4	.1														55	55															
42/41	.1	.9	1.8	.4	.1														93	93															
40/39	.2	2.4	2.1	.7	.1														159	159															
38/37	.3	2.6	2.3	.2															156	156															
36/35	.3	3.4	2.5	.3															187	187															
34/33	2.1	5.0	1.7	.1															257	257	264	177													
32/31	3.1	5.9	.9																284	284	312	274													
30/29	3.6	5.4	.6																274	274	357	373													
28/27	3.9	5.1	.4																277	277	287	374													
26/25	3.3	2.7	.1																172	172	217	242													
24/23	4.1	2.2	.1																185	185	271	251													
22/21	3.8	2.3	.2																183	183	181	275													
20/19	2.4	1.8	.1																123	123	134	123													
18/17	2.8	1.4	.0																121	121	135	126													
16/15	2.0	.6																	73	73	83	145													
14/13	1.6	.5																	60	60	61	91													
12/11	.9	.5																	41	42	44	77													
10/9	1.1	.3																	42	42	45	47													
8/7	.8	.1																	27	27	29	34													
6/5	.7	.1																	24	25	25	45													
4/3	.2	.1																	8	8		31													
2/1	.4																		11	12	12	17													
0/-1	.3																		8	8		14													
-2/-3	.1																		4	4	4	5													
-4/-5	.1																		4	4	4	1													
-6/-7	.1																		2	2	2	4													
-8/-9	.0																		1	1	1	7													
-10/-11																						2													
-12/-13																																			
Element (X)	Zx'	Zx	X	%x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew P. Int																																			

REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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

USAF/ETAC

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

36197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

MONTH

PAGE 2

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	DB WB	Dry Bulb	Wet Bulb	Dew Point															
TOTAL	37.7	43.4	14.8	2.8	1.2	.1																													2801	2873	2861	2861
Element (X)	Σx <sup>2</sup>		Σx		X		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total																					
Rel. Hum.	21139211		242775		85.2		11.244		2361		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																					
Dry Bulb	2541061		31131		28.2		9.356		2873		4.9		491.9				744																					
Wet Bulb	2281118		77074		26.9		8.462		2861		4.9		548.7				744																					
Dew Point	1887276		69134		24.2		8.708		2861		11.2		642.3				744																					

USAF ETAC FORM 5-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

### PSYCHROMETRIC SUMMARY

36197 STATION BAD TULZ GERMANY AAF

69 YEARS

PAGE 1

MONTH - 2  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point																
36/ 35		0																																	2	2					
34/ 33																																									
TOTAL		0																																			2				
Element (X)	$\Sigma x^2$		$\Sigma X$		$\bar{X}$		$s_x$		No. Obs.		Mean No. of Hours with Temperature																														
Rel. Hum.	16928		184		92.0				2		$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\geq 73 F$	$\geq 80 F$	$\leq 93 F$																						Total			
Dry Bulb	2521		71		35.5				2																													93			
Wet Bulb	2761		69		34.5				2																													93			
Dew Point	2249		67		33.5				2																													93			

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



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAF TULZ GERMANY AAF  
 STATION STATION NAME

65-76  
 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	DB WB	Dry Bulb	Wet Bulb	Dew Point
46/45			.2	.5															3	2		
44/43		.5		.5															4	4		
42/41		.5	.5																4	4		
40/39		.9	1.1																9	9		
38/37	.5	2.1	1.6																18	12	11	7
36/35	.7	3.0	.9																20	29	23	
34/33	4.3	6.4																	47	47	54	54
32/31	4.3	4.3	1.4																44	44	4	59
30/29	2.3	3.0																	32	32	38	4
28/27	6.4	2.3																	39	39	47	35
26/25	3.9	1.8																	25	25	28	3
24/23	3.2	1.8																	22	22	28	34
22/21	3.2	.9																	16	16	17	3
20/19	5.0	2.3																	32	33	21	73
18/17	4.6	1.6																	27	26	24	21
16/15	3.6	.5																	18	18	23	26
14/13	2.1	.7																	12	12	7	22
12/11	1.8	1.4																	14	15	12	13
10/9	1.1	.9																	6	9	13	17
8/7	.7	.2																	4	4	4	5
6/5	1.4	.5																	8	8	8	7
4/3	.5	.7																	5	5	5	4
2/1	.2																		1	1	2	1
0/-1	.9																		4	5	4	7
-2/-3	.2																		1	3	1	1
-4/-5	.7																		3	4	3	1
-6/-7	1.1																		5	5	2	2
-8/-9	.2																		1	1	1	2
-10/-11	.7																		3	3	3	5
-12/-13																						
-14/-15																						2
-16/-17																						1
TOTAL	53.5	9.9	5.7	.9															439	447	439	439

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3426323	38645	88.0	8.890	439	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	317992	10824	24.2	11.195	447	4.6	69.3					93
Wet Bulb	296639	10469	23.8	10.357	439	1.6	72.2					93
Dew Point	236074	9622	21.5	11.089	439	.0	83.0					93

USAF ETAC FORM 0-26-5 (OLAI) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/VAC

**PSYCHROMETRIC SUMMARY**

34197 BAD TOLZ GERMANY AAF 65-70

STATION

STATION NAME

YEARS

MON H

PAGE 1 3 - 1  
 HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPR. JN (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	DB	WB	Dry Bulb	Wet Bulb	Dew Point				
50/49				.2	.2																2	2							
48/				.4																	2	2							
46/45			.2	.4																	3	3							
44/43			.2	1.4																	5	5							
42/41			1.2	.6																	9	9							
40/39		1.0	1.0	.8																	14	14							
38/37			2.2	3.2	.2																29	29	1	3					
36/35	.8	5.5	2.0	.2																	43	43	27	27					
34/33	4.7	6.5	3.7	.2																	77	77	72	31					
32/31	2.7	3.1	.8																		34	34	57	64					
30/29	3.5	5.1	.4																		46	46	64	56					
28/27	2.9	3.7	.4																		36	36	35	35					
26/25	2.9	2.7	.2																		37	37	36	49					
24/23	3.3	3.3	.4																		36	35	37	52					
22/21	2.4	2.5																			25	25	25	34					
20/19	2.7	1.6																			22	24	24	16					
18/17	3.1	1.0	.2																		22	22	27	31					
16/15	2.0		.2																		11	11	13	22					
14/13	1.6	1.0																			13	13	11	15					
12/11	.6	1.2																			9	11	7	15					
10/9	.6	1.4																			10	11	11	7					
8/7	.2	.8																			5	5	7	9					
6/5	.6	1.0																			8	8	7	9					
4/3	.6	.4																			5	6	5	6					
2/1	.4																				2	2	3	6					
0/01	.2																				1	1	1	7					
2/23	.8	.2																			5	5	4	2					
4/25																								4					
6/27	.2																				1	2	1	5					
8/29	.4																				2	2	2	1					
10/31																								1					
12/33																								1					
14/35																								1					
Element (X)	$\Sigma x$					$\bar{x}$		$s_x$		No. Obs.		Mean No. of Hours with Temperature																	
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																	
Dry Bulb																													
Wet Bulb																													
Dew Point																													

USAFETAC FORM 8-59 (OL A) 0-26-5 (OL A) REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 STATION BAD TOLZ GERMANY AAF STATION NAME 65-70 YEARS MONTH

PAGE 2 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point	
TOTAL	37.3	44.1	14.0	4.3	.2															51	216		51	
Element (X)	Σx²		Σx		x̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature:													
Rel. Hum.	3723182		43208		84.711		11.024		510		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb	424919		19839		26.810		10.217		516		1.8		59.3										92	
Wet Bulb	383066		13136		25.8		9.374		510		1.6		68.4										93	
Dew Point	316046		11638		22.8		9.958		510		4.0		81.7										93	

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



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

17  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point													
56/55						.2												1	1																
54/53						.4												2	2																
52/51					.6													3	3																
50/49					.8													4	4																
48/47			.2	.4	1.0													5	5																
46/45			1.0	.6	.2													9	9																
44/43			1.2	2.0	.4													18	18																
42/41		.2	2.8	1.6	.2													22	22	13															
40/39		2.7	2.7	1.2														32	32	15															
38/37		3.1	4.3	.2														37	37	4															
36/35	1.0	7.8	3.5	.2	.2													62	62	5	3														
34/33	3.3	7.4	.8															56	56	3	4														
32/31	2.0	3.1	1.0	.2														31	31	5	4														
30/29	2.7	3.7	1.4															38	38	3	5														
28/27	1.8	3.1	1.4															31	31	3	4														
26/25	1.4	4.5	.2															37	37	3	3														
24/23	1.2	3.7																24	24	3	3														
22/21	1.8	.8	.2															14	14	2	2														
20/19	1.2	1.6																14	14	1	2														
18/17	1.4	1.0																12	12	1	2														
16/15	.6	1.2																9	10	1	1														
14/13	1.0	.4																7	7		2														
12/11	.4	.6																6	8		5														
10/9	1.4	.8																11	12		9														
8/7	.2																	1	1		4														
6/5	.2	.4																3	3		2														
4/3	.4																	2	2		3														
2/1	.2																	1	1																
0/0																						1													
42/43																						2													
44/45																						1													
TOTAL	22.5	46.3	20.5	6.6	3.5	.6												488	492	458	488														

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3234123	39261	80.5	12.448	488	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	+93 F	93
Dry Bulb	518061	15261	31.0	9.540	492		53.0					93
Wet Bulb	446968	14218	29.1	8.197	488		53.0					93
Dew Point	352014	12450	25.5	8.403	488	.8	76.6					93

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAG

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      66-70      MONTH  
 STATION      STATION NAME      YEARS      HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	DB. WB	Dry Bulb	Wet Bulb	Dew Point														
46/45			.6	.3														2	2																
44/43		.3	1.2	.3														4	4																
42/41			.6	.3														3	3																
40/39		1.4	2.0	.3														13	13																
38/37	.3	1.7	2.0															14	14																
36/34	2.0	8.4	1.7															44	44	27	22														
34/33	4.9	8.6																47	47	0	27														
32/31	6.9	4.2	.6															41	41	5	6														
30/29	4.9	1.7																22	22	27	4														
28/27	5.2	2.9	.3															29	29	24	27														
26/23	4.9	1.7																23	23	24	2														
24/23	6.1	1.2																25	25	2	24														
22/21	4.6	1.7																22	22	22	2														
20/19	1.2	1.2																3	1	7	17														
18/17	.6	.6																4	5	3	1														
16/15	2.0	1.2																12	12	12															
14/13	2.0	.3																9	9	2	1														
12/11	1.2	.6																6	8	2	1														
10/9	.3	.3																2	4	2	7														
8/7	.6																	2	3	3	3														
6/5	1.2	.3																5	5	5															
4/3	.6																	2	3	2	2														
2/1	.3																	1	1	1	1														
0/-1	.9																	3	4	2	4														
-2/-3	.3																	1	1	1	1														
-4/-5																																			
-6/-7																																			
-8/-9	.2																	1	1	1	1														
-14/-15																					1														
TOTAL	51.638	3	8.9	1.2																358	347														
																		347		347															

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2787239	30931	89.2	8.757	347	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	303396	9854	27.5	9.492	358	1.6	59.2					93
Wet Bulb	281868	9434	27.2	8.565	347	1.3	63.5					93
Dew Point	247768	8730	25.2	9.017	347	2.4	78.3					3

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



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

67-68

STATION

STATION NAME

YEARS

MONTH

PAGE 1 11-23  
 HOURS IN SET

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point															
39/35			16.7																																		
34/33		33.3																		2	2																
32/31		16.7																		1																	
30/29		33.3																		2	2	1															
28/27																																					
26/25																																					
TOTAL		83.3	16.7																		6																

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$> 80 F$	$\leq 93 F$	
Rel. Hum.	39027	483	80.5	5.294	6							93
Dry Bulb	6298	194	32.3	2.251	6		46.5					93
Wet Bulb	5654	184	30.7	1.506	6		93.0					93
Dew Point	4378	162	27.0	.894	6		93.0					93

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

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 67

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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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	DB	WB	Dry Bulb	Wet Bulb	Dew Point				
40/ 39			16.7																1		1					
36/ 37			16.7																1		1					
36/ 35		16.7																	1		1					
34/ 33		33.3																	2		2					
32/ 31		16.7																	1		1					
30/ 29																					1		1			
28/ 27																					1		1			
<b>TOTAL</b>		<b>66.7</b>	<b>33.3</b>																<b>6</b>		<b>6</b>					
Element (X)	Zx <sup>2</sup>	Zx	X	x <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						Total														
Rel. Hum.	36292	466	77.7	4,437	6	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	84														
Dry Bulb	7471	211	35.2	3,189	6		14.0					84														
Wet Bulb	6432	196	32.7	2,422	6		42.0					84														
Dew Point	3009	173	28.8	2,041	6		64.0					84														

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

**34197** **BAD TOLZ GERMANY AAF** **66-70**  
 STATION STATION NAME YEARS

PAGE 1 31-5  
 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	DB	W.B.	Dry Bulb	Wet Bulb	Dew Point													
52/51		.4	.4																2		2															
50/49																																				
48/47						.4																														
46/45					.4																															
44/43		.8	2.1	1.2															10		1															
42/41			.8	.4															3		2															
40/39		1.7	2.5	.4															11		11	7	1													
38/37	.4	3.3	2.9	1.2															19		19	14	4													
36/35	1.7	7.1	1.2	.8															26		26	17	17													
34/33	3.3	2.9	.8																17		17	34	13													
32/31	2.9	5.8																	21		21	16	34													
30/29	2.9	3.3	.4																16		16	24	2													
28/27	3.3	2.9	.4																16		16	15	1													
26/25	3.7	3.3																	17		17	2	19													
24/23	4.6	2.9																	19		19	18	17													
22/21	1.7	4.1																	14		14	13	10													
20/19	4.6	2.5																	17		17	2	17													
18/17	2.5	1.2																	9		9	1	1													
16/15	1.2	.8																	5		5	4	11													
14/13	1.2																		3		3	5	3													
12/11																																				
10/9	1.7																		4		4	4	2													
8/7	1.2																		3		4	3	4													
6/5	1.2																		3		3	2	1													
4/3	.8																		2		3	2	3													
2/1	.8																		2		2	2	2													
0/0	.4																		1		1	1	4													
2/0																																				
TOTAL	40.2	43.2	11.6	4.6	.4															241		243		241												

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No of Hours with Temperature						
Rel. Hum.	1806057	20729	86.0	10.228	241	≤ 0 F	≤ 32 F	< 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	215772	6836	28.1	9.847	243	.3	32.9					84
Wet Bulb	195932	6534	27.1	8.846	241	.3	55.8					84
Dew Point	163992	5900	24.5	9.026	241	1.7	69.7					84

USAFETAC FORM 38-44 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
STATION STATION NAME

65-70  
YEARS

PAGE 1  
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								
52/51			.2	.5														3	3										
50/49						.2												1	1										
48/47																													
46/45			.2		.2													2	2	2									
44/43			.7	.5	1.9	.2												14	14	2									
42/41		1.9	1.4	1.4														20	20	2	2								
40/39		3.5	2.1	.2														25	25	1									
38/37		1.6	.9															11	11	3	1								
36/35	1.2	5.2	3.0															40	40	24	25								
34/33	3.2	7.3	2.1	.5														56	56	6	26								
32/31	2.3	4.0	1.2	.2														33	33	33	30								
30/29	4.0	3.7	1.2															38	38	52	41								
28/27	3.7	3.0	.2															30	30	32	4								
26/25	1.9	2.3																18	18	23	26								
24/23	4.2	1.2																23	23	28	26								
22/21	3.3	3.3																28	28	24	33								
20/19	2.8	1.4																18	18	23	27								
18/17	2.8	.7																15	15	15	25								
16/15	1.6	.5																9	9	9	2								
14/13	.9	.9																6	6	4	11								
12/11	.9	.9																6	6	7	4								
10/9	1.6	.5																9	9	11	5								
8/7	1.4	.2																7	7	4	3								
6/5	.2	.7																4	6	4	0								
4/3	.7	.2																4	5	5	4								
2/1	.5																	2	2	2	2								
0/0	.9																	4	4	4	7								
-2/-3		.2																1	1	1	3								
-4/-5																					4								
-10/-11																					1								
TOTAL	37.5	44.0	13.1	4.7	.5	.2												427	427	427	427								
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total																		
Rel. Hum.	3141376	36324	85.110	981	427	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																		
Dry Bulb	386471	12118	28.210	258	430	1.0	50.4					84																	
Wet Bulb	348243	11537	27.0	9.260	427	1.0	56.3					84																	
Dew Point	289514	10336	24.2	9.607	427	3.0	70.8					84																	

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

DATA PROCESSING DIVISION  
 USAF E<sup>7</sup>AF  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

70-110  
 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	DB. W.B	Dry Bulb	Wet Bulb/Dew Point															
56/55																		1																	
54/53						.2												1																	
52/51					.2	.6												7	7																
50/49					.2	1.5	.6											5	5																
48/47					.6	.4												5	5																
46/45				.9	.6	.2												8	8																
44/43		1.1	1.5	1.7														20	20	4															
42/41		.9	3.9	.6														25	25	2															
40/39	.4	2.6	3.0	.4														32	32	2															
38/37	.4	4.1	1.9	1.1	.4													37	37	2															
36/35	.6	4.7	2.6	.2	.2													39	39	2															
34/33	2.8	4.3	2.2															43	43	5															
32/31	1.3	5.4	1.1	.2														37	37	4															
30/29	1.7	3.9	.9															30	30	4															
28/27	1.5	5.6	.4															35	35	3															
26/25	2.2	3.9	.2															29	29	4															
24/23	1.5	3.9	1.1															30	30	2															
22/21	1.5	1.1	.4															14	14	2															
20/19	2.4	1.7																19	19	2															
18/17	.9	1.5																11	11	2															
16/15	.9	1.3																10	10	1															
14/13	.6	.6																6	6	1															
12/11	1.1	.9																9	9	1															
10/9	.6	.9																7	7	1															
8/7																				3															
6/5	.2																	1	1	1															
4/3																				3															
2/1	.2																	1	1	1															
-4/-5																		1	1	1															
<b>TOTAL</b>	<b>20,948</b>	<b>220.0</b>	<b>5.4</b>	<b>4.5</b>	<b>.9</b>	<b>.2</b>												<b>465</b>	<b>465</b>	<b>465</b>															
Element (X)	Z <sub>X</sub> <sup>2</sup>	Z <sub>X</sub>	X	X	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	3025782	37022	79.6	12,902	465	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	498780	14582	31.4	9,457	465		43.2															84													
Wet Bulb	429706	13606	29.3	8,251	465		51.1															84													
Dew Point	334786	11620	25.4	8,601	465	.2	64.5															84													

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



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERNANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

65-17  
 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	DB WB	Dry Bulb	Wet Bulb	Dew Point		
64/ 63								.2												1	1			
62/ 61									.2											1	1			
60/ 59								.2												1	1			
58/ 57							.4	.4	.4											4	4			
56/ 55							.4	.4	.4											7	7			
54/ 53					.4	1.1	.2	.7	.4											11	11			
52/ 51				.2	1.3	.4														9	9			
50/ 49				.9	.4															6	6			
48/ 47			.7	.7	2.0	1.1														17	17			
46/ 45		.7	2.2	1.5	1.2															21	21	11		
44/ 43		2.0	1.3	2.2	1.3	.2														32	32	31		
42/ 41		3.3	3.0	.7																32	32	32	5	
40/ 39		3.5	3.4	1.3	.4															49	49	43	19	
38/ 37	.4	2.6	3.9	.2	.2															34	34	25	37	
36/ 35	.2	3.9	2.4	.2																31	31	22	36	
34/ 33	.4	4.8	2.2	.4																36	36	42	43	
32/ 31	1.3	2.8	1.1																	24	24	34	41	
30/ 29	1.7	3.9	2.0	.2																36	36	41	54	
28/ 27	1.5	3.0	2.4																	32	32	27	35	
26/ 25	.9	3.3	1.5																	26	26	32	34	
24/ 23	1.1	3.3	.4																	22	22	33	29	
22/ 21	.7	1.7	.2																	12	12	15	23	
20/ 19	.9	2.0																		13	13	13	25	
18/ 17	.2	.2																		2	2	9	15	
16/ 15																						1	18	
14/ 13																							13	
12/ 11																							4	
10/ 9																							2	
6/ 5																							1	
TOTAL	9.3	40.8	28.6	9.8	5.4	2.6	1.5	1.7	.2												461	461	461	
Element (X)	Zx <sup>2</sup>	Zx	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						93 F	Total											
Rel. Hum.	2665683	24352	74.5	15,162	461	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F														
Dry Bulb	643594	16692	36.2	9,232	461		30.4					94												
Wet Bulb	526318	15210	33.0	7,296	461		38.1					94												
Dew Point	292927	13019	28.2	7,322	461		58.3					84												

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

66-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

10-20  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point														
58/57						.3												1	1																	
56/55					.6	.3												2	2																	
54/53							.6											2	2																	
50/49						.3												1	1																	
48/47			.3	.8	.3													5	5			4														
46/45			.8	.3														4	4																	
44/43		.8	2.0	.3	.3													12	12			2														
42/41	.3	1.7	1.1	.6	.3													13	13			1														
40/39	.6	3.6	1.7	.6	.6													25	25			13														
38/37	.3	4.5	4.2	.6	.6													34	34			15														
36/35	3.1	5.3	3.1	.3														42	42			33														
34/33	.8	8.4	.8															36	36			19														
32/31	4.7	5.9	.3															39	39			43														
30/29	4.5	3.6																29	29			45														
28/27	4.2	1.7	.3															22	22			44														
26/25	1.4	2.5	.6															16	16			27														
24/23	1.7	2.5																15	15			8														
22/21	3.1	2.0																18	18			14														
20/19	1.1	2.5																13	13			14														
18/17	2.2	2.2																16	16			13														
16/15	.8	1.4																8	8			22														
14/13	.3	.3																2	2			1														
12/11	.6																	2	2			11														
10/9																						5														
8/7																						1														
<b>TOTAL</b>	<b>29.6</b>	<b>48.9</b>	<b>15.1</b>	<b>3.4</b>	<b>2.0</b>	<b>.6</b>	<b>.6</b>												<b>358</b>		<b>358</b>	<b>358</b>														

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2600466	30226	84.4	11.653	358	< 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	386426	11378	31.8	8.336	358		42.2					84
Wet Bulb	345213	10609	29.2	7.269	358		48.3					84
Dew Point	287963	9787	27.3	7.560	358		65.0					84

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

FORM 44

USAF/ETAC



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

### PSYCHROMETRIC SUMMARY

34197  
 STATION

BAU TOLZ GERMANY AAF  
 STATION NAME

65  
 YEARS

PAGE 1 410-230  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point														
34/33		50.0																																		
32/31																																				
30/29																																				
28/27																																				
18/17		16.7																		1																
16/15		16.7																		1																
14/13		16.7																		1																
8/7																																	3			
TOTAL		0																			6															

Element (X)	Σx'	Σx	X	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	36237	463	77.2	10.088	6							
Dry Bulb	4110	148	24.7	9.369	6		42.0					84
Wet Bulb	3659	139	23.2	9.369	6		84.0					84
Dew Point	2763	111	18.5	11.912	6		84.0					84

USAFETAC FORM 0-20-5 (OLA) JUL 64  
 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

36197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point			
48/47			.2	.5	.2													5							
46/45			.2	.4	.2	.4												6							
44/43		.5	.2	.2	.2													7							
42/41	.8	.9	2.3	.9	.2													27	27	1					
40/39	.4	2.2	3.4	.9														38	38	16					
38/37	.4	5.0	2.9															46	46	4					
36/35	2.2	6.1	.9															51	51	7		24			
34/33	3.8	4.8	2.2															63	63	74					
32/31	3.9	7.5	1.4															72	72	57		23			
30/29	3.6	5.2	.9															54	54	60		5			
28/27	6.6	3.6																57	57	73		65			
26/25	3.8	2.2																33	33	39		45			
24/23	1.8	3.0	.5															30	30	23		51			
22/21	2.6	.5																23	23	35		35			
20/19	1.3	.2																3	6	11		26			
18/17	.9	.5																8	6	6		13			
16/15	.9	.7																9	9	9		12			
14/13	.2	1.1																7	7	5		5			
12/11		1.1																6	6	7		6			
10/9		.4																2	2	4		3			
8/7		.5																3	5	3		5			
6/5		.4																2	2	3		4			
4/3		.2																1	1	3		1			
2/1		.2																1	1	1		3			
0/0																						3			
2/2																						1			
4/4																						4			
6/6																						1			
TOTAL	33.7	47.1	15.1	2.9	.9	.4												558	558	559		559			

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4109253	47443	85.011	642	558	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	T total
Dry Bulb	559572	17126	30.7	7.807	558		53.0					93
Wet Bulb	506779	16339	29.3	7.134	558		57.8					93
Dew Point	426623	14785	26.5	7.913	558	1.8	73.0					93

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      65-70

STATION      STATION NAME      YEARS      MONTH      PAGE 1      65-111  
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	DB	WB	Dry Bulb	Wet Bulb	Dew Point														
64/63							.4													2		2															
62/61							.2													1		1															
60/59							1.1	.4												2		2															
58/55						.2	.7	.2												6		4															
54/53				.2	.5	1.3														11		11															
52/51				.2	.7	.2														6		6															
50/49				.3	1.3	.7	.2													15		15															
48/47			.5	1.1	.9	.5	.2													18		18															
46/45		.5	1.6	1.6	1.1	.5														37		30		11													
44/43		1.1	2.2	.9	1.1	.4														31		21		23													
42/41	.4	1.4	3.8	1.6	.9															45		45		34													
40/39	.5	2.2	4.1	.9	.2	.2														45		45		44													
38/37	.2	3.2	2.0	1.3																48		42		28													
36/35	1.4	2.7	2.9	.7																43		43		61													
34/33	3.0	4.1	2.2	.4	.2															53		53		59													
32/31	1.6	4.7	1.3	.2																42		42		73													
30/29	1.8	4.8	1.1	.2																44		44		53													
28/27	4.5	3.0	.4																	44		44		47													
26/25	2.3	2.0	.5																	27		27		67													
24/23	1.1	2.5	.4																	22		22		51													
22/21	.5	.5	.2																	7		7		29													
20/19	.2	.4	.2																	4		4		12													
18/17																								1													
16/15		.4																		2		2		9													
14/13		.2																		1		1		1													
12/11																								1													
10/9																								4													
6/5																								2													
4/3																								2													
<b>TOTAL</b>	<b>17.6</b>	<b>35.7</b>	<b>23.1</b>	<b>9.7</b>	<b>7.0</b>	<b>4.5</b>	<b>1.8</b>	<b>.7</b>													<b>558</b>		<b>558</b>	<b>551</b>													

Element (X)	Zx²	Zx	X	Σx	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3389345	42457	76.1	16,889	558	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	783763	20353	36.5	8,620	558		32.3					93
Wet Bulb	647380	18646	33.4	6,606	558		41.7					93
Dew Point	491077	16137	28.9	6,619	558		63.2					93

REPRODUCED BY THE NATIONAL BUREAU OF STANDARDS

USAF/ETAC FORM 0-26-5 (DL A) JUL 64



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1-17  
 HOURS (L.S.T.)

Temp. (F)	WET GULB 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point					
72/ 71																				1	1							
70/ 69																				1	1							
68/ 67																				3	3							
66/ 65																				3	3							
64/ 63																				6	6							
62/ 61																				6	6							
60/ 59																				7	7							
58/ 57																				2	2							
56/ 55																				21	21							
54/ 53																				22	22							
52/ 51																				24	24							
50/ 49																				33	33							
48/ 47																				27	27							
46/ 45																				29	29							
44/ 43																				45	45							
42/ 41																				33	33							
40/ 39																				27	27							
38/ 37																				46	46							
36/ 35																				49	49							
34/ 33																				51	51							
32/ 31																				53	53							
30/ 29																				47	47							
28/ 27																				10	10							
26/ 25																				10	10							
24/ 23																				3	3							
22/ 21																												
20/ 19																												
18/ 17																												
16/ 15																												
14/ 13																												
TOTAL	10.6	26.9	19.7	14.9	11.1	7.9	5.6	2.3	.7	.4									558	558	558	558						

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2886554	38706	69.4	19.029	558	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 95 F	Total
Dry Bulb	982750	22814	40.9	9.474	558		20.5	.8				93
Wet Bulb	760624	20276	36.3	6.543	558		31.2					93
Dew Point	538733	17007	30.3	6.032	558		61.8					93

USAFETAC FORM 0-25-5 (OL 2) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
 AIR 54

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 STATION BAD TOLZ GERMANY AAF 65-70 YEARS

PAGE 1 MONTH 1-7-70  
 HOURS TEL. S. T. 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	DB	W.B.	Dry Bulb	Wet Bulb	Dew Point													
66/65							.2	.2										2	2																
64/63							.2											1	1																
62/61							.2											1	1																
58/57								.4										2	2																
56/55						.6	.6											6	6																
54/53			.2	.2	.6	.6	.2											9	9																
52/51			.2	.4	.2	1.1	.2											9	9		2														
50/49			.9	1.1	1.3	1.4	.2											18	18		2														
48/47		.2	1.1	1.6	2.6	.2												22	22																
46/45		1.1	1.5	1.7	1.1	.2												25	25		1														
44/43	.6	1.5	1.7	2.4	.2	.2												31	31		25														
42/41		2.4	2.6	1.7	.2	.2												32	32		29	12													
40/39	.6	1.7	2.6	1.3														30	30		43	33													
38/37	1.2	1.9	3.9	.4														35	35		44	24													
36/35	.6	3.9	1.9	.4														32	32		37	2													
34/33	2.2	6.2	1.7															47	47		59	37													
32/31	4.5	6.0	.9															53	53		59	36													
30/29	5.8	4.5	.4															50	50		63	75													
28/27	2.6	1.9	1.1															27	27		31	63													
26/25	1.5	2.4	.4															20	20		13	20													
24/23	.9	.4	.4															8	8		27	77													
22/21	.6	.4																5	5		7	17													
20/19																					1	15													
18/17																						7													
16/15																						4													
14/13																						2													
12/11																						2													
TOTAL	21,534	6,621	7,103	6,5	4,1	1,1	.2											465	465		465	465													
Element (X)	Z <sub>x</sub> <sup>2</sup>	Z <sub>x</sub>	Y	%	No. Obs.	Mean No. of Hours with Temperature					Total																								
Rel. Hum.	2955199	54325	74,115,917		465	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	675340	17296	27,2	6,305	465		32,6					93																							
Wet Bulb	367723	15977	24,4	6,360	465		39,8					93																							
Dew Point	445831	14119	30,4	6,076	465		63,3					93																							

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

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
STATION STATION NAME

68  
YEARS

PAGE 1

MONTH  
1 -23  
HOURS L. S. T. I

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point									
44/43			1																				1												
40/39																																			
36/35																																			
TOTAL			1																				1			1									

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4900	70	70.0		1	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1936	44	44.0		1							93
Wet Bulb	1600	40	40.0		1							93
Dew Point	1225	35	35.0		1							93

USAFETAC FORM 36-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

66/68

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1000-0200  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point
58/ 57				1.7														1	1			
54/ 53				1.7														1	1			
52/ 51			1.7	1.7														2	2			
50/ 49		3.4	3.4															4	4			
48/ 47	6.8	6.8	5.1	1.7														12	12		9	1
46/ 45	3.4	5.1	3.4															7	7		7	5
44/ 43		11.9	6.8															12	12		9	7
42/ 41		6.8																4	4		1	4
40/ 39	3.4	5.1																5	5		4	10
38/ 37			1.7															1	1		3	6
36/ 35		3.4	1.7															3	3			6
34/ 33		3.4																2	2		6	
32/ 31		1.7																1	1		1	3
30/ 29	1.7																	1	1		1	5
28/ 27		1.7																1	1			
24/ 23		1.7																1	1		1	
22/ 21	1.7																	1	1		2	1
20/ 19																						2
TOTAL	16.9	50.0	25.4	6.8														59		59	59	59
Element (X)	Σ x <sup>2</sup>		Σ x		X		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature					Total						
Rel. Hum.	441833		2069		85.910,026		59		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb	111280		2530		42.9		6.926		59		7.6										90	
Wet Bulb	101039		2413		40.7		6.394		59		7.6										90	
Dew Point	91390		2288		38.8		6.773		59		16.8										90	

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

DATA PROCESSING DIVISION  
 USAF RTAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197  
 STATION

BAF TOLZ GERMANY AAF  
 STATION NAME

66-70  
 YEARS

197  
 MONTH

PAGE 1

300-0500  
 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	E	Dry Bulb	Wet Bulb, Dew Point	
50/49	.4	.4	2.2																10	10	1	1
48/47	2.0	1.2	.4	.4	.4														11	11	7	0
46/45	.4	2.2	1.6	.8															15	15	13	2
44/43	.8	3.6	2.0	.8															18	18	14	11
42/41	.8	3.0	1.2	.4															15	15	14	15
40/39	2.0	6.0	.8																24	24	25	2
38/37	1.6	3.0	1.2																16	16	26	16
36/35	.4	3.2	.4																15	15	13	21
34/33	6.4	4.0	2.0																33	33	28	31
32/31	6.4	6.0	.8																33	33	33	30
30/29	4.0	3.2																	23	23	32	24
28/27	4.8	3.2																	20	20	24	23
26/25	2.0	1.6																	9	9	12	24
24/23	.8																		2	2	2	16
22/21	1.6																		4	4	4	4
20/19																						4
18/17	.4	.4																	2	2	2	
16/15																						2
TOTAL	34.8	48.0	13.6	2.4	.4														250	250	250	250
Element (X)	Σx²		Σx		X̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total					
Rel. Hum.	1986216		22152		88.6		9.608		250		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F						
Dry Bulb	333219		8955		35.8		7.071		250			33.5					90					
Wet Bulb	509112		8640		34.6		6.498		250			39.2					90					
Dew Point	277617		8161		32.6		6.709		250			45.7					90					

REPRODUCED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF

65-70

APR

STATION

STATION NAME

YEARS

MONTH

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point														
62/61						.2														1	1	1														
60/59						.2														1	1	1														
58/57					.2															1	1	1														
56/55					.2	.6														4	4	4														
54/53			.2		.7															5	5	5														
52/51	.6	.6			.2															7	7	7	9	3												
50/49	.4	.7	2.0	1.5	.2															26	26	7	7	5												
48/47	.6	1.9	1.7	.6																25	25	15	15	1												
46/45	.7	3.0	2.4	1.3	.2															41	41	29	29	12												
44/43	.7	3.0	3.4	1.3																56	56	38	38	24												
42/41	.6	3.0	2.0	1.3																51	51	51	51	27												
40/39	.6	4.3	2.2	.6																41	41	53	53	46												
38/37	.6	3.0	2.0	.2																34	34	54	54	50												
36/35	1.2	7.1	2.0	.4																62	62	40	40	52												
34/33	2.2	6.3	1.3																	53	53	70	70	51												
32/31	4.1	7.3	.6																	64	64	70	70	71												
30/29	2.0	2.2	.7																	27	27	50	50	70												
28/27	2.8	1.3																		22	22	27	27	52												
26/25	.4	1.1																		8	8	14	14	28												
24/23	.6																			3	3	5	5	19												
22/21	.2	.2																		2	2	1	1	8												
20/19	.2																			1	1	2	2	4												
18/17	.2	.2																		2	2	2	2	2												
16/15																								2												
14/13																								1												
TOTAL	18.6	49.3	22.9	8.4	1.1	.2																537	537	537												
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total																								
Rel. Hum.	3837243	44992	83.811	1.191	537	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																								
Dry Bulb	816311	20883	38.2	7.146	537		21.6					90																								
Wet Bulb	720687	19497	36.2	6.378	537		28.7					90																								
Dew Point	630542	18058	33.6	6.593	537		43.1					90																								

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (01.A)

USAFETAC

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 STATION      DAB TOLZ GERMANY AAF STATION NAME      65-70 YEARS      APR MONTH      PAGE 1      0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26	27	28	29-30	<31	DB	WB	Dry Bulb	Wet Bulb	Dew Point															
74/73									.4	.2																								3	3				
72/71									.4																										2	2			
70/69								.4		.2																									3	3			
68/67						.2		.6		.2																									5	5			
66/65						.2		.7		.4																									6	6			
64/63						.2		.4		.4																									5	5			
62/61					.2		.6	.7		.4																									10	10			
60/59				.6	.4	.4	.9	.6	.2																										16	16			
58/57		.2	.2	.4	1.7	1.5	.9	.2																											27	27	7		
56/55		.2	.2	.4	1.7	1.5	.9	.2																											33	33	5		
54/53		.9	.4	1.7	1.5	.7	.2																												29	28	13	1	
52/51		.7	.4	1.9	1.0	.9	.2																												37	37	23	6	
50/49		1.1	1.7	1.1	1.9	.7																													32	32	35	12	
48/47	.2	1.7	2.0	1.7	1.5	.4																													43	43	43	3	
46/45	.2	1.7	2.0	1.7	1.5	.2																													41	41	53	23	
44/43		1.9	2.0	1.7	.6																														36	36	51	27	
42/41		2.0	1.7	1.3	.4																														34	34	58	50	
40/39	.7	2.0	2.4	.7	.4																														39	39	47	61	
38/37		2.4	2.0	1.1																															35	35	36	35	
36/35	.2	2.0	2.0																																31	31	43	57	
34/33	2.4	2.7	1.1																																39	39	56	67	
32/31	.9	2.4	.2																																19	19	37	63	
30/29	.6	.6																																	6	6	21	52	
28/27	.4	.7																																	6	6	6	30	
26/25	.2																																		1	1	3	20	
24/23																																						14	
22/21																																					4		
20/19																																					1		
18/17																																					1		
TOTAL		5.2	26.1	23.8	14.9	13.0	6.7	6.0	2.6	.9	.6																									537	537	537	

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

Element (X)	Zx <sup>2</sup>	Zx	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2780999	27489	69.817	4882	537	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1189299	24680	46.0	9.558	537		3.4	2.2	.9			90
Wet Bulb	939976	22036	41.0	6.927	537		11.2					90
Dew Point	706961	19161	39.7	6.588	537		31.0					90

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      65-70      APR

STATION

STATION NAME

YEARS

MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	DB. W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81																		1	1		
78/ 77																		2	2		
76/ 75																		6	6		
74/ 73																		2	2		
72/ 71																		3	3		
70/ 69																		8	8		
68/ 67																		10	10		
66/ 65																		14	14		
64/ 63																		25	25		
62/ 61																		27	27		
60/ 59																		30	30		2
58/ 57																		30	30		11
56/ 55																		32	32		13
54/ 53																		22	22		23
52/ 51																		33	33		29
50/ 49																		37	37		59
48/ 47																		40	40		54
46/ 45																		24	24		58
44/ 43																		33	33		41
42/ 41																		33	33		35
40/ 39																		37	37		46
38/ 37																		26	26		52
36/ 35																		15	15		42
34/ 33																		30	30		39
32/ 31																		14	14		24
30/ 29																		2	2		7
28/ 27																		1	1		2
26/ 25																					
24/ 23																					
22/ 21																					
20/ 19																					
<b>TOTAL</b>	<b>4.3</b>	<b>20.7</b>	<b>15.1</b>	<b>13.6</b>	<b>12.5</b>	<b>10.2</b>	<b>8.9</b>	<b>6.5</b>	<b>5.4</b>	<b>1.7</b>	<b>.7</b>	<b>.4</b>						<b>537</b>	<b>537</b>		<b>537</b>
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	2342334	33748	62.8	20.326	537	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total									
Dry Bulb	1394338	26750	49.8	10.739	537		2.8	5.4	1.8	.2		90									
Wet Bulb	1023179	23137	43.1	7.006	537		3.5					90									
Dew Point	721674	19370	36.1	6.548	537		26.7					90									

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

299

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1500-1700  
 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																		
80/79																																		1	1			
78/77																																			4	4		
76/75																																			5	5		
74/73																																			1	1		
72/71																																			2	2		
70/69																																			8	8		
68/67																																			5	5		
66/65																																			17	17		
64/63																																			25	25		
62/61																																			39	39		
60/59																																			34	34		2
58/57																																			30	30		15
56/55																																			33	33		17
54/53																																			21	21		22
52/51																																			20	20		29
50/49																																			32	32		49
48/47																																			32	32		68
46/45																																			35	35		38
44/43																																			29	29		43
42/41																																			35	35		35
40/39																																			29	29		50
38/37																																			25	25		46
36/35																																			24	24		44
34/33																																			26	26		37
32/31																																			14	14		23
30/29																																			7	7		12
28/27																																			1	1		2
26/25																																						
24/23																																						
22/21																																						
TOTAL	6.0	18.2	14.8	14.4	11.0	12.9	8.4	6.4	4.3	2.6	.9																								534	534		534
Element (X)	Zx²	Zx	X	σx	No. Obs.	Mean No. of Hours with Temperature						Total																										
Rel. Hum.	2220320	33550	62.820	4.87	534	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90																										
Dry Bulb	198832	26588	49.811	4.44	534		3.7	4.4	1.9			90																										
Wet Bulb	101788	22971	42.17	2.64	534		6.7					90																										
Dew Point	716216	19834	36.0	6.630	534		30.7					90																										

USAFETAC FORM 9-26-5 (OL A) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

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STATION

STATION NAME

YEARS

MONTH

PAGE 1 1900-2000

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	DB	W.B	Dry Bulb	Wet Bulb	Dew Point																			
74/73									.4	.2																							3	3							
70/69									.2																									2	2						
68/67										.2																								3	3						
66/65										.2																								2	2						
64/62					.2	.6			.4	.2	.2																							8	8						
62/61						.2	.2	.4	.2	.4	.2																								9	9					
60/59				.2	.4	.6	.4	.2	.2	.4	.2																								16	16	2				
58/57		.2	.8	.6	.6	.6	.6	.6	.6	.6	.6																									23	23	3			
56/55		.2	.4	1.4	2.1	1.9	.2	.4																													32	32	17		
54/53		.2	1.0	.6	1.6	1.2	.4																														25	25	12	1	
52/51		.2	1.9	2.1	1.2	.6																															30	30	17	7	
50/49		1.2	2.7	2.3	1.4	.2																															38	38	20	11	
48/47	.4	1.0	3.3	.6	1.9	.2																															33	33	62	20	
46/45	.6	1.9	1.0	2.1	.2																																28	28	42	23	
44/43		2.7	2.1	2.1	.6																																37	37	42	28	
42/41	.2	2.3	2.3	1.0																																	30	30	42	44	
40/39	.4	2.1	2.3	.6	.2																																29	29	41	44	
38/37	1.6	3.1	2.3	.4																																	37	37	46	44	
36/35	.6	3.3	1.2																																		26	26	42	43	
34/33	2.3	3.9	.6																																		34	34	43	58	
32/31	1.6	2.3	.2																																		20	20	32	63	
30/29	1.6	1.6																																			16	16	22	44	
28/27	.6	.2																																			4	4	10	25	
26/25																																								20	
24/23																																								9	
22/21																																							1		
TOTAL	10.3	26.6	22.1	14.8	11.8	6.4	3.6	1.4	.6	.2																											485	485	485		
Element (X)	Zx²	Zx	X	X²	No. Obs.	Mean No. of Hours with Temperature					Total																														
Rel. Hum.	2705426	33204	72.6	17.612	485	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total																													
Dry Bulb	1047907	22059	45.3	9.600	485		7.4	1.5	.6			90																													
Wet Bulb	840836	19902	41.0	7.068	485		11.9					90																													
Dew Point	658765	17583	36.3	6.687	485		30.1					90																													

USAFETAC FORM 34 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
STATION STATION NAME

66=66  
YEARS

ADZ  
MONTH

PAGE 1 2106-2300  
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	DB	WB	Dry Bulb	Wet Bulb	Dew Point															
60/ 59				.9																														1	1			
58/ 57				1.9																														2	2			
56/ 55										.9																								1	1			
54/ 53					.9																													1	1	1		
52/ 51			2.8	1.9	.9																													6	6	2		
50/ 49			7.9	4.7	4.7																												18	18	4	1		
48/ 47	1.9	2.8	4.7	1.9																													12	12	17	11		
46/ 45	3.8	9.4	7.5																														22	22	16	12		
44/ 43		12.3	2.8																														16	16	19	11		
42/ 41	.9	2.8	.9																														5	5	21	11		
40/ 39		1.9	3.8																														6	6	5	23		
38/ 37		1.9	1.9	.9																													5	5	2	15		
36/ 35		3.8																															4	4	4	2		
34/ 33		3.8																															4	4	4	2		
32/ 31																																			2		11	
30/ 29																																					4	
28/ 27		1.9																																2	2	1	1	
26/ 25																																				1	1	
24/ 23		.9																																1	1	1	1	
22/ 21																																				2		
TOTAL	6.6	51.9	26.3	11.9	.9	.9																												106	106	106	106	
Element (X)	Zx'	Zx	X	X	No. Obs.	Mean No. of Hours with Temperature						Total																										
Rel. Hum.	794760	8758	82,610,308	106	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	96																											
Dry Bulb	214750	4728	44,606,066	106		2.5					96																											
Wet Bulb	190989	4461	42,15,362	106		5.1					96																											
Dew Point	168712	4180	39,46,077	106		16.1					60																											

USAF ETAC FORM 0-26-5 (O.L.A.) REV'D PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 STATION      BAD TOLZ GERMANY AAF STATION NAME      6668 YEARS

PAGE 1      MONTH      02      HOUR (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
56/55			5.1															2	2					
54/53		2.6	5.1															3	3					
52/51		12.8	2.6															6	4	4				
50/49			5.1	2.6														3	3		4			
48/47			5.1															2	2	2				
46/45			5.1	2.6														3	3	2				
44/43			12.8															5	4	4	2			
42/41		2.6	7.7															4	4	4	5			
40/39		7.7	10.2															7	7	4				
38/37			7.7															3	3	4	7			
36/35			2.6															1	1		3			
34/33																					1			
TOTAL	10.36	1.52	5.6	2.6														39	39	39	39			
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.	201979	3421	87.7	7.062	39	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93												
Dry Bulb	81600	1768	45.3	3.737	39							93												
Wet Bulb	74773	1697	43.5	4.937	39							93												
Dew Point	69027	1631	41.8	4.639	39							93												

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GFRMANY AAF  
 STATION STATION NAME

65-69  
 YEARS

PAGE 1 300-037  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point																			
64/63					.5	.5																												2	2						
62/61						1.0																													2	2					
58/57			1.0	.5	.5																														4	4					
56/55			.5	1.0	.5																														4	4					
54/53	.5	1.5	1.0																																	6	3	4			
52/51		2.0	1.5	1.0																																9	9				
50/49	3.0	3.0	2.0																																	16	16	14	14		
48/47	2.0	7.5	2.5																																	24	24	14	12		
46/45	.5	7.5	2.0	1.0																																	26	26	29	17	
44/43	2.5	7.5	3.5	.5																																28	28	27	23		
42/41	1.5	10.1	1.5																																		26	26	27	27	
40/39	2.5	3.0	1.0																																		13	13	27	25	
38/37	1.5	6.0	1.0																																		17	17	13	21	
36/35	1.5	4.0																																			11	11	17	17	
34/33	1.5	.5																																			4	4	1	16	
32/31	.5																																				1	1	1	1	
30/29	1.0	1.5																																			5	5	3	3	
28/27	.5																																				1	1	3		
26/25																																								3	
24/23																																								1	
TOTAL	19.1	56.3	17.6	4.0	1.0	2.0																																199	199	199	199
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total																													
Rel. Hum.	1544924	17410	87.5	10.492	199	$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	Total																													
Dry Bulb	295242	8774	44.1	6.510	199		3.3					92																													
Wet Bulb	361313	8607	43.2	5.662	199		3.3					92																													
Dew Point	331336	6040	40.4	5.731	199		7.9					83																													

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

94197 BAD TOLZ GERMANY AAF

65-70

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point																	
68/67						.2																											1	1							
66/65						.4			.2																									3	3						
64/63				.6	.4	.6	.2																											9	9						
62/61			.2	.6	.9	.6																													12	12					
60/59			.4	1.3	1.1	.2	.2																												17	17					
58/57		.2	.7	1.7	.7	.4																													20	20					
56/55			2.0	1.5	.7	.4																													25	25					
54/53		1.5	2.4	1.5	1.7	.2																													39	39	2.7				
52/51	.2	1.9	3.7	2.0	.9	.2																													48	48	3.4	1.0			
50/49	.7	4.3	4.8	1.5																															61	61	4.7	3.2			
48/47	1.9	6.0	5.0	1.1	.2																														76	76	5.9	5.4			
46/45	.7	6.3	3.7	.7																															62	62	9.1	6.1			
44/43	.2	5.0	1.7	.2																															38	33	7.2	7.1			
42/41	.4	4.8	2.0																																39	39	4.9	7			
40/39	.7	4.8	1.5																																38	38	4.6	4.3			
38/37	1.2	2.4	.6																																23	23	3.9	5.2			
36/35	.6	1.7																																	12	12	2.8	4.2			
34/33	.6	.7	.4																																9	9	1.1	3.3			
32/31	.2	.7																																	5	5	4	1.0			
30/29																																					4	4			
28/27																																						2			
26/25																																						1			
TOTAL	7.4	40.4	29.2	12.7	7.1	2.6	.4	.2																												537	527	537	537		

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

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
						= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Rel. Hum.	3558332	43218	80.5	12.227	537							
Dry Bulb	1249574	25634	47.7	6.954	537			.9	.2			93
Wet Bulb	1085812	23958	44.6	5.571	537			1.4				93
Dew Point	949012	22384	41.7	5.498	537			6.3				93

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

65-70  
 YEARS

PAGE 1

MONTH  
 9-11  
 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	DB WB	Dry Bulb	Wet Bulb	Dew Point													
78/77							.2	.4	.4	.2									3	4															
76/75							.2	.4	.2										4	4															
74/73							.7	.7	.2										3	2															
72/71						.2	.4	.7	.6										10	11															
70/69				.2	.4	.6	.7	.9	.9	.2									19	19															
68/67			.4	.4	.6	.6	.8	.9	.2										22	22															
66/65			.2	.6	.7	.9	.9	.7											22	22															
64/63			.2	.7	1.7	1.3	.9	.9											31	31															
62/61			.2	.4	1.9	2.0	1.7	.2											34	34	11														
60/59				.9	2.4	2.4	.6												26	26	14														
58/57			.6	.9	2.0	2.4	.4												34	34	29	3													
56/55	.2	.7	1.3	2.2	1.7	1.1													39	39	43	11													
54/53	.4	.6	1.7	4.8	1.5	.7	.2												53	53	44	17													
52/51	.6	.9	3.0	3.7	1.1	.4													52	52	51	21													
50/49	.6	3.0	2.2	2.0	.7														46	46	71	44													
48/47	.6	3.5	2.4	.7		.2													40	40	53	41													
46/45		3.4	1.9	.9															33	33	72	61													
44/43	.2	1.5	1.5	.6															20	20	46	73													
42/41		2.0	.2	.2															13	13	24	74													
40/39		2.2	.2																13	13	24	63													
38/37	.6	.9	.6																11	11	17	49													
36/35	.6	.4																	5	5	7	34													
34/33		.4																	2	2	5	12													
32/31																					1	11													
30/29																						4													
28/27																						1													
TOTAL	3.3	14.6	15.8	18.8	14.7	12.1	8.2	5.0	2.0	.7									537	537	537	527													
Comment (X)	Zx <sup>2</sup>	Zx	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total																							
Wet Bulb	2609443	36299	67.6	17,048	537	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	1649367	29367	56.7	8,993	537			10.9	2.1			93																							
Wet Bulb	1284086	26060	48.9	6,020	537			.2				93																							
Dew Point	1020963	23211	43.2	5,747	537			2.8				93																							

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

36197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1 12 1966  
 HO. RS. 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	DB	W.B.	Dry Bulb	Wet Bulb	Dew Point	
82/ 81										.4			.2								5				
80/ 79										.2											1				
78/ 77										.2											3				
76/ 75						.2				.6											9				
74/ 73						.2				.9											14				
72/ 71						.2				1.7											29				
70/ 69					.2					1.1											19				
68/ 67			.4	.2		.6				1.7											29				
66/ 65				.2		.2				2.7											27				
64/ 63			.2	.2		1.1				1.9											37			7	1
62/ 61			.2	.4		1.1				1.7											27		12	2	
60/ 59				.2		.6				2.1											19		27	2	
58/ 57		.4	.2			1.3				3.4											38		34	2	
56/ 55		1.3	.8			3.0				3.6			.2								54		41	14	
54/ 53		.9	1.1			3.0				3.9			.6								47		51	12	
52/ 51	.4	2.1	.4			1.9				1.9			.4								37		27	22	
50/ 49	.6	2.7	2.3			.6				.6											36		26	23	55
48/ 47	.8	1.7	2.1			.8				.2											29		29	74	42
46/ 45		1.3	2.7			.6															24		24	45	49
44/ 43		2.3	.4			.4															16		16	34	44
42/ 41	.2	1.9																			11		11	35	66
40/ 39	.2	1.3																			8		8	15	66
38/ 37	.4	.6																			5		5	11	41
36/ 35		.4																			2		2	2	2
34/ 33	.6	.2																			4		4	5	14
32/ 31																									12
30/ 29																									3
28/ 27																									1
26/ 25																									1
TOTAL	3.0	17.1	10.8	12.5	12.3	16.9	7.8	11.2	4.9	2.7	.6	.2										527	527	527	427

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature					Total	
						= 0 F	= 32 F	= 67 F	> 73 F	= 80 F	= 93 F	
Rel. Hum.	2267601	33053	62.7	19.242	527							
Dry Bulb	1797940	30334	57.6	9.933	527			19.9	6.4	1.1		93
Wet Bulb	1534024	26310	49.9	6.246	527			.2				93
Dew Point	1019474	22958	43.6	6.064	527			3.0				93

USAFETAC FORM 0-26-5 (OL A) 1955 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
STATION STATION NAME

65-70  
YEARS

PAGE 1 15 17  
MONTH HOURS L S T T

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	31	DB	W.B.	Dry Bulb	Wet Bulb	Dew Point																	
64/ 83													.2																						1					
82/ 81												.2	.4																							3				
80/ 79												.4	.2											.2												4				
78/ 77												.2	.4																								3			
76/ 75												.4	.2											.4													6			
74/ 73												1.0	1.3	1.2										.4													19	12		
72/ 71												1.3	1.3	1.7	.8																						29	27		
70/ 69												.8	1.2	.4	1.2	.2																					23	23		
68/ 67				.2	.2		.2	1.3	.2	1.2	.8																										24	24		
66/ 65				.2			.6	1.5	1.0	1.2	.4																										26	26		
64/ 63					.4		1.3	1.0	1.2	1.0																												25	25	
62/ 61					.6		.6	1.7	1.0																													23	23	
60/ 59				.4	1.0		1.3	2.9	.8																												31	31	1	
58/ 57			.6	1.0	.8		2.9	3.1	.6	.2																											47	47	4	
56/ 55		.6	1.0	1.2	1.3	1.9	.8	.2	.2																												34	34	4	
54/ 53	.6	1.0	2.1	4.2	1.7	.6																															53	53	27	
52/ 51		.6	1.7	1.3	.4	1.0	.6																														26	26	34	
50/ 49	.8	1.9	2.1	1.3	1.0																															37	37	33		
48/ 47	.2	3.5	1.9	.4	.4																															33	33	36		
46/ 45		1.7	1.5	.6																																20	20	56		
44/ 43		2.5	.2																																	14	14	73		
42/ 41	.4	3.1	.2																																	19	19	81		
40/ 39	.4	1.3																																		9	9	81		
38/ 37	.2	.2																																		2	2	41		
36/ 35	.2	.2																																		2	2	21		
34/ 33	1.2																																			6	6	13		
32/ 31																																							7	
30/ 29																																							1	
24/ 23																																							1	
TOTAL	3.8	18.6	12.3	11.1	13.6	12.9	8.3	9.0	8.5	2.9	.4	.2	.4																								521	521	521	

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$S_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2325082	33280	63.9	19.378	521	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1770372	29906	57.4	10.169	521			20.3	7.0	1.1		93
Wet Bulb	1321770	26040	50.0	6.243	521							93
Dew Point	1019222	22846	44.9	5.788	521			1.5				93

USAF ETAC FORM 38-64 0-26-5 (G.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

36197  
STATION

BAD TOLZ GERMANY AAF  
STATION NAME

63-70  
YEARS

MONTH

PAGE 1

1 20  
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	DB	WB	Div Bulb	Wet Bulb	Dew Point											
80/79									.3																			1								
76/75								.3																				2								
74/73								.3																				2								
72/71								.3																				4								
70/69								.5	.8																			11								
68/67				.3	.5	.8	2.3	.8	1.0									.3	.5								20		2							
66/65			.3	.3	.8	1.3	1.0	.8		.3																	18		18							
64/63			.3	.5	1.3	1.3	1.0	.3																			18		18							
62/61			.3	.3	2.5	2.3	.8																				24		24							
60/59			.3	.5	2.0	.8																					20		20							
58/57			.8	1.3	2.5	1.3																					23		23	1						
56/55		.8	1.3	2.3	3.8	.8																					35		25	20						
54/53	.3	.5	1.0	4.6	1.3																						30		32	1						
52/51	.3	.8	5.9	1.3	1.5	.3																					40		4	3	1					
50/49	.8	4.0	2.5	2.3	.8																						44		44	4	1					
48/47	.3	2.5	1.3	.8	.3																						22		22	76	4					
46/45	.3	4.3	1.3	1.0																								28		28	38	6				
44/43	.3	1.5	.5	.5																								11		11	33	57				
42/41	1.0	4.3	.8																									24		24	23	48				
40/39	.3	1.5																										7		7	22	45				
38/37		.5																										2		2	6	34				
36/35		.3																										1		1	1	15				
34/33	1.3																											5		5	9	14				
32/31	.3																											1		1	1	4				
TOTAL	5.6	21.9	17.0	15.8	17.3	10.9	5.6	4.3	.8	.8																		393		393	293	373				
Element (X)	$\sum X^2$		$\sum X$		$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature							Total																					
Rel. Hum.	2061626		37666		70.4	17.099	393	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93																						
Dry Bulb	1180609		21265		54.1	8.744	393		.2	9.5	1.2			93																						
Wet Bulb	937877		19061		48.5	5.845	393		.2					93																						
Dew Point	764616		17204		43.8	5.415	393		.9					93																						

REVIEW PREVIOUS EDITIONS OF THIS FORM AND OBSOLETE

FORM 0-26-5 (GLA)

JAN 64

USAF/ETAC

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

66-69  
 YEARS

PAGE 1 21-23  
 MONTH 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															
62/61				1.7	1.7																											2	7		
60/59				1.7		1.7																										2	2		
58/57			1.7	3.3																												3	3		
56/55			6.7	5.0	1.7																											4	4		
54/53		1.7	5.0																													4	4		
52/51		1.7	10.0	1.7																												2	2	7	
50/49		1.7	3.3																													2	3	1	
48/47		5.0		1.7																												4	4	5	
46/45		3.3	5.0																													4	4	0	
44/43		10.0																														6	6	4	
42/41	3.3	8.3																														7	7	5	
40/39	8.3	1.7																														6	6	14	
38/37		3.3																														2	2	5	
36/35																																			4
TOTAL	11.7	36.7	31.7	15.0	3.3	1.7																											60	6	5
Element (X)	Σx <sup>2</sup>	Σx	X	x	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	419097	4972	82.9	10.829	60	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total																							
Dry Bulb	143964	2912	48.5	6.683	60							93																							
Wet Bulb	127175	2745	45.8	5.193	60							93																							
Dew Point	113821	2599	43.3	4.336	60							63																							

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



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197  
 STATION

BAD TOLZ GERMANY AAF  
 STATION NAME

67-69  
 YEARS

YEARS

MONTH

PAGE 1

HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL D.B. W 9	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						
58/57			11.1																1								
56/55		22.2																	2	2							
54/53		33.3																	3	3							
52/51		11.1																	1	1							
50/49																											
38/37	22.2																		2	2							
TOTAL	22.2	66.7	11.1																9	9							
Element (X)	Σx <sup>2</sup>			Σx			X̄			s <sub>x</sub>			No. Obs.			Mean No. of Hours with Temperature											
Rel. Hum.	75000			820			91.1			6.009			9			≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	< 93 F	Total					
Dry Bulb	23901			459			51.0			7.842			9										9				
Wet Bulb	22496			446			48.6			7.020			9										9				
Dew Point	21448			436			48.4			6.386			9										9				

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

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/AC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-69  
STATION STATION NAME 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	DB WB.	Dry Bulb	Wet Bulb	Dew Point																					
74/ 73				.5		1.0												2																								
64/ 63																		1																								
62/ 61			1.0	1.0														4	4																							
60/ 59		1.5	1.5	1.0														3																								
58/ 57	.5	2.9	1.9															11	11																							
56/ 55	1.0	3.4	1.5															11	11	14																						
54/ 53	1.0	3.2	2.4	.5														27	27	17	14																					
52/ 51	.5	10.2	2.9															26	26	24	24																					
50/ 49	3.4	5.8	2.9															25	25	3	32																					
48/ 47	1.5	7.3	1.5															21	21	2	10																					
46/ 45	4.4	5.3	.5															21	21	24	31																					
44/ 43	1.9	6.8	.5															19	19	27	22																					
42/ 41	3.4	2.4																12	12	14	24																					
40/ 39	2.4	.5	.5															7	7	7	13																					
38/ 37	2.9	.5																7	7		7																					
36/ 35		.5																1	1		1																					
34/ 33		.5																1	1		1																					
32/ 31																					1																					
30/ 29																					1																					
TOTAL	22.8	56.8	16.5	2.9		1.0													206	206	206	206																				
																						206		206																		

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	168822	1857	90.2	8.169	206	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	513086	10198	49.3	6.328	206			9	9			90
Wet Bulb	478956	9868	47.9	5.522	206			4				90
Dew Point	453867	9607	46.6	5.335	206			9				90

USAFETAC FORM 0-26-5 (OLA) 10-64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/4AC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-70

STATION STATION NAME

YEARS

MONTH

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26-27-28	29-30	>31	DB W.B	Dry Bulb	Wet Bulb	Dew Point	
78/ 77							.4	.2										1				
74/ 73																		2				
72/ 71				.2	.6	.6	.2											3				
70/ 69					.6	.4												5				
68/ 67			.4	1.1	2.3	.4	.2											23	23			
66/ 65			.6	1.0	.8	.6												16	16			
64/ 63			1.9	2.3	1.1	.2												29	29		1	
62/ 61		1.0	2.9	2.5	.8	.2												38	34	2	4	
60/ 59		1.5	2.9	2.9	1.0													41	41	35	12	
58/ 57		4.4	3.8	1.9	.4													54	54	54	23	
56/ 55		4.4	2.9	1.9	.6													51	51	64	52	
54/ 53	1.0	6.1	3.1	1.3	.2													61	61	58	41	
52/ 51	.2	5.2	2.3	.2														41	41	50	44	
50/ 49	1.0	4.0	2.9	.2														42	42	06	52	
48/ 47	.4	3.6	1.7															31	31	34	43	
46/ 45	1.3	3.1	1.1															30	21	41	54	
44/ 43	1.9	2.3	.4															24	24	34	46	
42/ 41	1.9	.8																12	12	21	33	
40/ 39	.8	.6																7	7	1	19	
38/ 37	.6	.2	.2															5	5	4	12	
36/ 35																					2	1
34/ 33																						1
32/ 31																						1
<b>TOTAL</b>	<b>9.0</b>	<b>37.2</b>	<b>26.8</b>	<b>15.5</b>	<b>8.2</b>	<b>2.3</b>	<b>.8</b>	<b>.2</b>											<b>522</b>	<b>522</b>		<b>522</b>

Element (X)	Σx'	Σx	X	Σx²	No. Obs.	Mean No. of Hours with Temperature									
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total			
Rel. Hum.	3571234	42772	61.9	11202	522										
Dry Bulb	1603011	28659	54.9	7533	522			6.7	5.5						9
Wet Bulb	1409121	26945	51.6	5919	522										9
Dew Point	1279765	25685	49.2	5530	522					.2					9

USAF ETAC FORM 0-26-5 (OL.A) REUSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
 DEC 44

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-70

STATION STATION NAME YEARS MONTH

PAGE 1 11-11

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	DB W.B.	Dry Bulb	Wet Bulb	Dew Point																	
86/85											.2																							1	1					
84/83											.4																							2	2					
82/81									.2	.2																								3	2					
80/79								1.0	.4	.2																								4						
78/77								1.0	1.5	.2	.2																								14	14				
76/75						.2		1.9	1.0	.4																									18	14				
74/73					.6	1.3		2.5	1.6																										26	26				
72/71				.6	1.1	3.1		2.5	1.0																										43	43				
70/69				1.1	1.7	3.3		1.1	.2																										39	39				
68/67			.2	1.1	2.7	1.7		.8	.4																										36	36				
66/65			.2	1.3	2.1	1.3		1.0																											31	31	27			
64/63			1.3	2.5	1.5	2.3		1.3																											47	47	47			
62/61		.2	1.0	1.9	1.5	.8		.2																											29	29	54	5		
60/59		.2	.6	2.3	1.7	.6		.4																											30	37	66	24		
58/57	.2	1.1	1.9	.8	1.1	.8																													31	31	57	47		
56/55	.2	2.1	2.1	1.9																																34	34	47	63	
54/53		2.5	1.3	.4	.4	.2																													25	25	54	63		
52/51	.2	1.0	1.1	.6	.2																															16	16	47	69	
50/49	.2	2.9	1.5	.4																																26	26	29	5	
48/47	.4	2.9	2.1																																	28	28	29	44	
46/45	.6	1.5	.2																																	12	12	34	43	
44/43	.6	1.5	.2																																	12	12	19	47	
42/41	.2	1.1																																		7	7	17	27	
40/39		.8																																		4	4	5	21	
38/37																																							2	1
36/35																																								
TOTAL		2.5	17.8	13.8	14.9	14.8	15.7	12.6	8.6	1.1	1.0	.2																									522	522	522	522
Element (X)	Zx <sup>2</sup>	Zx	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total																												
Rel. Hum.	2563620	35666	68.3	15,595	522	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																												
Dry Bulb	2043303	32253	61.8	9,843	522			32.8	12.4	1.4																														
Wet Bulb	1604092	28730	55.0	6,621	522			.2																																
Dew Point	1346020	26328	50.4	5,897	522																																			

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

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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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
90/ 89												.2						1	1		
88/ 87												.4						2	2		
86/ 85												.4	.6					5	5		
84/ 83									.4	.4	.2							5	5		
82/ 81								.2	.2	.4	.2							14	14		
80/ 79						.2	.8	1.6	.2	.2	.8							23	23		
78/ 77						.6	1.8	2.3	.6	.2								26	26		
76/ 75						.6	3.3	1.8	1.2									35	35		
74/ 73			.4	.6	1.2	2.5	2.0	.6										37	37		
72/ 71			.6	.6	2.5	2.3	.8	.6										38	38		
70/ 69				1.0	1.8	1.2	.4	.2										23	23		
68/ 67		.2	.8	1.4	2.3	1.4	1.8	.2										41	41	2	
66/ 65			.8	1.0	2.1	1.8	1.4	.6										39	39	5	1
64/ 63			1.2	1.2	.6	.6	1.2	.4										26	26	43	5
62/ 61		.8	1.4	1.0	.8	.6												23	23	57	12
60/ 59	.2	1.0	1.6	1.2	.2	.6												24	24	62	32
58/ 57		1.0	2.0	1.2	.8	.4												27	27	47	51
56/ 55		1.4	1.4	.8	.4													20	20	43	62
54/ 53	.4	.4	.8	1.4	.6	.2												19	19	54	65
52/ 51		1.2	1.6	1.6	.4													25	25	26	83
50/ 49		2.2	1.6	.2	.2													22	22	29	87
48/ 47	.2	1.0	.4															8	8	31	43
46/ 45	1.0	2.5																18	18	25	47
44/ 43	.2	1.4																8	8	17	30
42/ 41		.6																3	3	4	23
40/ 39																				2	14
38/ 37																					7
36/ 35																					6
TOTAL	2.0	12.5	12.3	11.5	10.2	12.7	16.4	11.7	6.8	1.6	2.1	.2						512	512	512	512
Element (X)	Zx <sup>2</sup>	Zx	X	X	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	2157452	32064	62.6	17.1	512	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90									
Dry Bulb	2229096	33338	65.1	10.6	512			48.9	26.0	6.3		90									
Wet Bulb	1663921	28979	56.6	6.8	512			3.5				90									
Dew Point	1347431	26075	50.9	6.1	512							90									

USAF ETAC FORM AIR 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

36197      BAD TOLZ GERMANY AAF      65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

MO. 27  
HOURS 12 S. T. 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point															
84/83									.3	.3	.3							3	3																		
82/81									.3	.3	.3							2	2																		
80/79									.3	.3	.3							2	2																		
78/77									.6	.9	.3							4	4																		
76/75								.6	.9	.9	.3							4	4																		
74/73				.3	.9	1.2	1.8	2.1	.6									23	23																		
72/71				.9	1.5	1.8	.6											16	16																		
70/69				.9	.6	1.2	2.1	1.2										27	27																		
68/67			.6	1.2	2.1	1.2	1.2											21	21																		
66/65			.6	.6	3.0	1.2	.9											21	21	14	1																
64/63		1.2	1.5	1.8	2.1	2.1												29	29	24	4																
62/61		.9	3.0	2.1	1.2	.6	.3											27	27	26	1																
60/59		.6	2.7	1.5	.9	.6												21	21	23	22																
58/57		2.4	2.1	1.8	1.2													25	25	46	24																
56/55		1.5	2.1	.9	.9	.3												19	19	34	39																
54/53	.6	1.2	1.8	1.5	.3													18	18	47	27																
52/51		2.1	2.1	.3	.3													16	16	14	31																
50/49	.6	1.5	1.5	.6														14	14	23	41																
48/47	.9	2.4	.9	.3														15	15	24	3																
46/45	1.2	3.0	.3															15	15	17	25																
44/43	.6	1.5	.3															8	8	16	24																
42/41	.3	1.2																5	5	9	15																
40/39	.3																	1	1	2	11																
38/37																					7																
TOTAL	4.4	19.2	19.2	14.5	14.8	10.7	8.6	5.9	1.5	.9	.3							338	338	338	338																

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	1780358	23942	70.8	15.829	338	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1289775	20619	61.0	9.738	338			27.7	12.5	2.1		0
Wet Bulb	1034214	18560	54.9	6.685	338			1.9				90
Dew Point	880281	17127	50.7	6.073	338							90

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

**34197**  
STATION

**BAD TOLZ GERMANY AAF**  
STATION NAME

**67=66**  
YEARS

YEARS

PAGE 1

MONTH

**11-23**  
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	+3	DB	WB	Dry Bulb	Wet Bulb	Dew Point												
68/ 67					9.1																	1															
62/ 61				18.2	9.1																	3															
60/ 59			27.3																			2															
58/ 57		18.2	9.1																			3		3													
56/ 55		9.1																				1		1													
54/ 53																																					
52/ 51																																					
50/ 49																																					
TOTAL		27.3	36.4	18.2	18.2																	11		11													

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\leq 93 F$	
Rel. Hum.	68484	862	78.4	9.667	11							11
Dry Bulb	39605	659	59.9	3.534	11			8.2				9
Wet Bulb	34314	614	55.8	2.040	11							9
Dew Point	30840	582	52.9	2.168	11							9

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

USAFETAC



1  
 DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/WAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GFRMANY AAF  
 STATION STATION NAME

65-69  
 YEARS

PAGE 1 MONTH = 5  
 MO. 45 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	DB, WB	Dry Bulb	Wet Bulb	Dew Point																		
70/ 69																																				4	4			
68/ 67																																				4	4			
66/ 65																																				5	5			
64/ 63																																				4	4			
62/ 61																																				5	5			
60/ 59																																				12	12			
58/ 57																																				33	33	22	22	
56/ 55																																				26	26	34	34	
54/ 53																																				32	32	31	31	
52/ 51																																				14	14	21	17	
50/ 49																																				14	14	21	24	
48/ 47																																				27	27	25	27	
46/ 45																																				15	15	14	23	
44/ 43																																				15	15	14	17	
42/ 41																																				4	4			
40/ 39																																								
38/ 37																																								
TOTAL	31.2	43.9	16.7	4.5	2.7	.9																														221	221	221	221	
Element (X)	Σ x <sup>2</sup>		Σ x		x̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature							Total																						
Rel. Hum.	1829623		19995		90.5		9.670		221		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb	645481		11863		53.7		6.285		221									93																						
Wet Bulb	604235		11495		52.0		5.376		221									93																						
Dew Point	576296		11226		50.8		5.247		221									93																						

USAFETAC FORM 0-26-5 (OL A) REVED REVISED EDITIONS OF THE FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

YEARS

PAGE 1

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	Dry Bulb	Wet Bulb Dew Point													
76/ 75									.2																						1	1			
74/ 73																															4	4			
72/ 71				.6	.2	.2																								9	5				
70/ 69			.2	.6	1.2	.2	.2																							12	12				
68/ 67			1.2	2.4	1.6	.2	.2																						27	27					
66/ 65		.2	2.2	2.6	.8	.4																							36	36					
64/ 63		1.2	3.6	2.0	.2	.4	.2																						38	38					
62/ 61		2.2	3.6	1.4	.6																								39	39	44	1.2			
60/ 59	.4	3.2	4.0	2.0	.4																								53	53	5	4.2			
58/ 57	1.4	7.3	2.4	.6						.4																			61	61	7.3	4			
56/ 55	.8	6.9	2.8	.4					.2																				54	54	6.3	7.4			
54/ 53	.6	5.7	1.8	.8	.4																								47	47	6.4	6.7			
52/ 51	.6	5.3	2.4		.2																								42	42	4.6	6			
50/ 49	1.6	4.0	1.2																										34	34	5	7.7			
48/ 47	1.4	2.8	.6																										24	24	3	4			
46/ 45	1.8	2.2	.2																										21	21	2.9	3.7			
44/ 43	.4	.6																											5	5	1.4	2.1			
43/ 41	.4																												2	2	4	1.2			
40/ 39																																			
38/ 37																																			
<b>TOTAL</b>	<b>9.3</b>	<b>41.2</b>	<b>27.1</b>	<b>13.3</b>	<b>5.5</b>	<b>2.8</b>	<b>.6</b>		<b>.2</b>																				<b>505</b>	<b>505</b>	<b>5.6</b>	<b>5.2</b>			

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3595110	42244	83.7	11.121	505	$\leq 0 F$	2 F	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total
Dry Bulb	1686051	28981	57.4	6.739	505			9.0	.9			9.3
Wet Bulb	1505680	27440	54.3	5.397	505							9.3
Dew Point	1390892	26370	52.2	5.253	505							9.3

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BA8 TOLZ GERMANY AAF      65-7

STATION      STATION NAME      YEAR      MONTH

PAGE 1      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	Dry Bulb	Wet Bulb	Dew Point														
86/85																																						
84/83								.2		.4																												
82/81										.2		.2																										
80/79								.6	1.0	.4		.2																										
78/77								1.4	.8	1.4	.2																											
76/75							.6	2.2	2.8	.6	.4																											
74/73				.4	1.2	2.2	1.4	.4	.4		.4																											
72/71				.8	3.0	3.0	.2	.2	.4																													
70/69				1.6	4.4	1.4	.4				.2																											
68/67		.2	.6	1.8	3.0	2.0	.8																															
66/65		.2	1.2	2.6	3.4	1.6	.2																															
64/63			1.6	3.4	2.0																																	
62/61		1.2	2.0	3.6	.8	.2	.2																															
60/59		2.2	1.0	3.0	.2																																	
58/57		1.8	1.6	1.4	.2																																	
56/55		2.2	2.2	1.8	.4																																	
54/53		3.2	3.0	.4																																		
52/51		1.2	1.8	.2																																		
50/49		2.0	.4																																			
48/47	.4	1.8																																				
46/45	.2	1.2																																				
44/43	.2	.2																																				
42/41																																						
TOTAL	.8	17.2	14.8	18.8	19.8	13.9	7.9	4.0	2.4	.2	.8																											

Element (X)	$\sum x^2$	$\sum x$	$\bar{x}$	$s_x$	s. Obs.	Mean No. of Hours with Temperature						
						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total
Rel. Hum.	2334990	35218	68.7	14.011	505							
Dry Bulb	2144538	32608	64.0	8.800	505			41.4	19.5	2.2		93
Wet Bulb	1714600	29278	58.0	5.876	505			4.6				93
Dew Point	1476563	27177	53.8	5.272	505							93

USAF ETAC FORM 0-26-5 (OL A) JUL 64 REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF BTAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-7)

STATION

STATION NAME

YEARS

MONTH

PAGE 1 65-17

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	DB W.B.	Dry Bulb	Wet Bulb	Dew Point															
88/ 87																																	2	2			
86/ 85									.2																								2	2			
84/ 83								.2	.9																								11	11			
82/ 81								1.1	1.5	1.1																							2	2			
80/ 79							.4	1.1	1.6	3.7																							36	36			
78/ 77					.2		1.5	2.0	2.0	.9																							3	3			
76/ 75			.4		.4		.7	2.2	.2																								1	1			
74/ 73					1.3		3.3	1.3	1.1	.2																							32	32			
72/ 71				.4	1.5		3.7	1.5	.9																								37	37			
70/ 69				1.8	3.7		2.2	2.4	.2																								47	47	1		
68/ 67			.9	.2	1.5		1.8	.9	.2																								25	25	2		
66/ 65		.7	.9	.9	1.8		1.1	1.1	.2																								3	3	4	1	
64/ 63		.9	2.6	1.1	3.1		1.3	.4																									43	43	7	24	
62/ 61		.7	1.8	.9	1.5		.7																										25	25	0	24	
60/ 59		.9	.9	1.3	1.1		.2																										21	21	4	3	
58/ 57	.2	.4	1.1	1.3	.4																												16	16	4	7	
56/ 55		1.3	.7	.7																													12	12	3	5	
54/ 53	.2	1.3	1.3	.2																													14	14	3	4	
52/ 51	.2	.9	1.8	.4																													13	13	2	2	
50/ 49		1.1	.2																														6	6	1	2	
48/ 47	.7	.7	.2																														7	7	1	3	
46/ 45	.7	.2																															4	4	2	2	
44/ 43		.4																															2	2	2	1	
42/ 41																																				5	
TOTAL	2.0	9.4	12.3	9.9	16.7	16.9	14.3	9.0	6.6	1.3	1.1					.4																	436	436	45	45	
Element (X)	Σx <sup>2</sup>		Σx		X		x		No. Obs.		Mean No. of Hours with Temperature							Total																			
Rel. Hum.	1961834		29038		62.7		15.738		456		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total														
Dry Bulb	2140030		30944		67.9		9.397		456						53.2		31.0		11.2				93														
Wet Bulb	1626487		27097		59.4		5.984		456						9.4								93														
Dew Point	1353241		24713		54.2		5.530		456						.2								93														

USAFETAC FORM 34 JUL 64 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
STATION STATION NAME

65-70  
YEARS

PAGE 1

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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	DB	WB	Dry Bulb	Wet Bulb	Dew Point													
84/83																													1	1						
82/81										.6																				4	4					
80/79								.6		.6																				9	9					
78/77							.3	1.2	1.5	.3		1.2	.3																15	15						
76/75						.9	1.2	2.1	2.1	.9		.3																	22	22						
74/73					.9	1.5	1.5	.6	.6																				17	17						
72/71			.6	1.8	2.1	3.2	.3	.3																					28	28						
70/69			.9	3.2	2.1	2.4	.6	.3																					30	30						
68/67			2.1	2.9	1.5	2.7	.3																						32	32	1	1				
66/65		.9	2.7	1.8	1.5	1.2	.3																						23	23	34	1				
64/62		1.8	3.5	1.8	1.8	.6																							32	32	41	21				
62/61		1.8	2.9	2.4	1.8																								32	32	54	22				
60/59		2.7	.9	2.1	1.2	.6																							25	25	41	4				
58/57	.9	1.5	.3	.9	.6																								14	14	37	46				
56/55		1.2	.3	1.2	.6																								11	11	27	41				
54/53			1.5	.6																									7	7	24	27				
52/51		1.8	1.8																										12	12	17	25				
50/49	.6	.9	1.5																										10	10	17	29				
48/47	.6	1.5																											7	7	15	20				
46/45	.3	.6																											3	3	2	15				
44/43		.3																											1	1	2	12				
42/41																																	5			
40/39																																	1			
TOTAL	2.4	14.7	18.3	19.5	15.9	15.9	6.8	3.2	2.9	.3																			339	339			339			

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1771395	24011	70.8	14.434	339	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	> 80 F	≤ 93 F	Total
Dry Bulb	1467381	22123	65.3	8.317	339			43.6	18.9	1.4		93
Wet Bulb	1189282	19978	58.9	5.942	339			7.1				93
Dew Point	1034777	18623	54.9	5.889	339			.3				93

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



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      67      STATION      STATION NAME      YEARS      MONTH

PAGE 1      12

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	DB. W.B.	Dry Bulb	Wet Bulb	Dew Point				
50/ 49		0																	2						
48/ 47																				2					
TOTAL		0																	2						

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	17865	189	94.5		2	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93
Dry Bulb	5000	100	50.0		2							93
Wet Bulb	4802	98	49.0		2							93
Dew Point	4705	97	48.5		2							93

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



DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-69

PAGE 1 30-5

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	DB	W.B	Dry Bulb	Wet Bulb	Dew Point										
68/67						.4																		1		1											
66/65			.8																					2		2											
64/63		.4	.8		.4	.4																	5		5												
62/61	.4	.8	2.1																				2		2												
60/59	.4	2.5	1.2		.4																		11		11												
58/57	2.1	3.3	1.2																				16		16												
56/55	4.1	12.8			.4																		42		42	2	2										
54/53	4.5	8.6	2.1		.4																		33		33	44	37										
52/51	5.8	4.9	1.6																				30		30	37	42										
50/49	2.1	5.3	2.5																				24		24	17	24										
48/47	8.6	6.2	.8																				32		32	39	27										
46/45	2.9	2.5																					13		13	24	23										
44/43	.8	2.1																					7		7	1	17										
42/41	.4	.4																					2		2		11										
40/39	.8	.8																					4		4	2	3										
38/37	.4																						1		1	2	2										
36/35	.4																						1		1		2										
TOTAL	33.7	50.6	13.2	1.6	.4	.4																		243		243		243									

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0$ F	$\leq 32$ F	$\leq 67$ F	$\leq 73$ F	$\leq 80$ F	$\leq 93$ F	Total
Rel. Hum.	2089919	22462	92.4	7.450	243							
Dry Bulb	670663	12697	52.3	5.390	243			.4				93
Wet Bulb	637807	12391	51.0	4.966	243							93
Dew Point	616648	12162	50.0	4.957	243							93

USAF ETAC FORM 0-26-5 (OL A) JAN 54 REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      65-70      MONTH      YEARS

PAGE 1      HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27-28	29-30	>31	D.B	W.B	Dry Bulb	Wet Bulb	Dew Point													
74/73						.2		.2												2	2															
72/71					.4	.4	.4													6	6															
70/69				.2		.4	.2													4	4															
68/67		.2	.2	.7	.4															4																
66/65			1.1	1.3	.2	.2														15	15															
64/63		.7	2.8	.6	.2	.2														24	24															
62/61	.2	1.9	2.1	.7		.4														28	28	23														
60/59	.2	3.6	3.4	.7	.2	.4														43	43	37														
58/57	1.1	6.7	1.3	1.1	.4															58	58	53	43													
56/55	3.0	10.1	2.4	1.5	.4															93	93	87	63													
54/53	3.4	5.8	2.4	.4	.2															68	63	77	92													
52/51	3.6	5.6	1.7	.2																59	59	64	75													
50/49	2.8	5.1	1.5	.4																52	52	66	74													
48/47	2.1	4.5	.4																	37	37	54	54													
46/45	1.7	1.7																		18	18	31	53													
44/43	1.1	.9																		11	11	17	23													
42/41	.7	.4																		6	6	7	17													
40/39	.2	.6																		4	4	4	6													
38/37	.2																			1	1	1	6													
TOTAL	20.2	47.8	19.5	7.9	2.2	1.7	.6	.2												534	534	534	334													
Element (X)	Zx <sup>2</sup>	Zx	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total																								
Rel. Hum.	4183642	46938	87.9	10,418	534	≤ 0 F	32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																								
Dry Bulb	1623927	29267	54.8	6,108	534			3.5	.3			92																								
Wet Bulb	1493811	28115	52.6	5,045	534							83																								
Dew Point	1406281	27279	51.1	4,892	534							92																								

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1 05-11-70  
 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	DB WB	Dry Bulb	Wet Bulb	Dew Point															
90/89																																		1	1		
86/85																																		1	1		
84/83														.2	.2																		2	2			
82/81													.4	.2	.2																		4	4			
80/79										.4		.2	.2																				4	4			
78/77						.4		.4		.6	.2	.2																					9	9			
76/75					.2	.4	1.1	.4		.2																							11	11			
74/73				.2	.7	1.3	1.1	.2		.2																							19	19			
72/71			.2	.6	1.1	2.1	.4																										23	23			
70/69				2.1	2.1	1.7	.7	.4																									37	37			
68/67			.4	1.1	2.4	1.9	.9	.2																									37	37	1		
66/65		.2	.3	2.2	3.0	1.7	.2																										44	44	2	3	
64/63		.6	2.1	2.8	1.9	1.1	.2																										46	46	3	5	
62/61		.4	3.2	2.6	1.3	.7																											44	44	4	2	
60/59		.2	1.9	3.9	2.4	1.9	.4	.2																									53	53	5	39	
58/57		.6	4.3	2.1	2.4	.9	.2																										56	56	3	5	
56/55	1.9	4.7	1.7	.7																													48	48	3	65	
54/53	.7	3.4	1.7	.2																													32	32	6	1	
52/51	1.1	1.3	.7	.4																													19	19	5	56	
50/49	.4	2.6	.6																														19	19	2	5	
48/47	1.3	.9																															12	12	2	56	
46/45	.2	.6																															4	4	5	31	
44/43		.2																															1	1	3	11	
42/41		.4																															2	2	1		
40/39		.2																															1	1	1		
38/37																																		1	1	1	
TOTAL	6.4	21.5	17.4	17.8	15.3	12.3	4.9	1.9	1.1	.6	.2		.2																			534	534	534	534		
Element (X)	Σ x²		Σ x		x̄		sₓ		No. Obs.		Mean No. of Hours with Temperature							Total																			
Rel. Hum.	2063604		39636		74.2		15.106		534		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																				
Dry Bulb	2074567		33013		61.8		7.944		534				25.8	3.9	1.7		73																				
Wet Bulb	1714848		30134		56.4		5.191		534				1.9				93																				
Dew Point	1505632		28238		52.9		4.824		534								93																				

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

YEARS

MONTH

PAGE 1 12 1954

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point															
94/ 93																																			1	1				
90/ 89																																				2	3			
88/ 87																																				5	5			
86/ 85																																				4	4			
84/ 83																																				4	4			
82/ 81																																				10	1			
80/ 79																																				14	14			
78/ 77																																				15	15			
76/ 75																																				19	19			
74/ 73																																				22	22			
72/ 71																																				44	44			
70/ 69																																				50	50	1	1	
68/ 67																																				49	45	1	1	
66/ 65																																				33	23	3	4	
64/ 63																																				29	29	4	1	
62/ 61																																				36	36	3	2	
60/ 59																																				24	24	6	3	
58/ 57																																				51	51	4	3	
56/ 55																																				38	38	6	4	
54/ 53																																				19	19	3	7	
52/ 51																																				16	16	4	5	
50/ 49																																				10	10	1	6	
48/ 47																																				9	9	1	2	
46/ 45																																				3	3	5	2	
44/ 43																																								
42/ 41																																								
40/ 39																																								
38/ 37																																								
36/ 35																																								
TOTAL	3.1	16.6	13.5	11.2	14.1	15.6	13.3	5.6	2.7	1.7	1.5	.6	.4																							518	518		51	
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature																																		
Rel. Hum.	2486413	34803	67.2	16.909	518	$\leq 0 F$	$\leq 32 F$	$< 67 F$	$\geq 73 F$	$\geq 80^\circ$	$\geq 93 F$	Total																												
Dry Bulb	2257291	33867	65.4	9.126	518			44.9	19.2	5.9	.2	93																												
Wet Bulb	1737706	30044	58.0	5.414	518			5.2				93																												
Dew Point	1481031	27581	53.2	4.912	518							93																												

USAF ETAC  
 FORM 0-26-5 (OLA)  
 JUL 54  
 REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-70  
 STATION STATION NAME YEARS

PAGE 1 7  
 MONTH 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point											
90/ 89												.4												2	2										
88/ 87												.6												3	3										
86/ 85												.8	.2											7	7										
84/ 83									.2			.4	.4	.2										4	4										
82/ 81							.2		1.2			.2																							
80/ 79							.2	.8	1.0															1	1										
78/ 77							.4	1.0	.6	.8														19	19										
76/ 75					.4		1.0	2.4	.6	1.0														27	27										
74/ 73					.4		1.8	1.6	.4															24	24										
72/ 71				1.0	.4		1.8	2.0	.4	.2														29	29										
70/ 69			.4	1.8	2.0	4.3	1.6	.4																47	47										
68/ 67			.2	1.8	2.9	3.3	1.2	.2																47	47	12									
66/ 65			.4	1.2	2.2	1.0	1.4																	31	31	4	1								
64/ 63			.4	1.2	2.6	1.8	1.2	.4																40	4	4	1								
62/ 61	.2	.8	2.0	1.8	.2	.6																		31	31	51	12								
60/ 59	.2	3.1	3.3	2.2	.8	.2																		48	4	76	2								
58/ 57	.2	1.6	.6	2.2	.6																			24	26	24	62								
56/ 55	.4	2.0	.6	1.2	.2																			22	22	4	1								
54/ 53	1.0	3.5	1.8																					31	31	47	87								
52/ 51		.8	.2																					3	5	34	5								
50/ 49		1.2	.2																					7	7	22	64								
48/ 47	.2	.8																						5	5	7	32								
46/ 45	.8	1.4																						11	11	7	2								
44/ 43	.2	.4																						3	3	2	1								
42/ 41																																			
40/ 39																											1								
38/ 37																											1								
TOTAL	3.3	16.1	11.0	15.1	12.0	15.7	11.2	5.5	4.7	1.8	2.2	.8												491	491	491	491								
Element (X)	Zx'	Zx	X	X <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature				Total																									
Rel. Hum.	2321722	32718	66.4	16,996	491	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total	93																						
Dry Bulb	2143396	32120	65.4	9,279	491			43.8	20.5	6.4		93																							
Wet Bulb	169831	28423	57.9	5,436	491			3.0				93																							
Dew Point	1391392	26030	53.0	4,830	491							93																							

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 8AD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEAR

MONTH

PAGE 1

NO. OF DAYS

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. WB	Dry Bulb	Wet Bulb	Dew Point														
86/65										.3	.3																							2	2					
84/83										.3	.3																							2	2					
80/79									.5	.3																								3	3					
78/77								.5	.5																										4	4				
76/75								.8	.5	.3																									5	5				
74/73				.3	.8	.5		.8	.5	.3																									11	11				
72/71			.5	.3	2.1	.8		.8	.3	.3																									13	13				
70/69			.5	.5	1.6	.5		.3	.3																										13	13				
68/67			1.6	1.9	1.9	.8		.3	.3																											24	24	1		
66/65		.8	2.9	2.1	3.2	1.9		.5	.3																											43	43	14		
64/63		1.1	3.2	2.4	1.3	1.9		.3	.3																											32	32	2	7	
62/61		2.9	3.7	3.5	1.6	.5		.3	.3																											45	45	33	22	
60/59	.3	2.9	3.2	4.0	.3	.3																														41	41	47	37	
58/57	.8	5.9	2.9	1.6																																42	42	5	42	
56/55	1.1	4.8	.8	1.3																																32	32	55	55	
54/53	.8	2.7	1.9	.5	.3																															23	23	44	51	
52/51	.5	2.1		.5																																12	12	24	5	
50/49	.3	2.1	.5																																	11	11	13	52	
48/47	.3	1.3																																		5	6	12	5	
46/45	.3	.8																																		4	4	4	12	
44/43	.3	.8																																		4	4	3	5	
42/41																																							2	4
40/39																																							1	
TOTAL	4.5	28.3	21.9	18.9	13.1	6.9	3.5	1.6	.8	.3	.3																									375	375	375	275	

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2287189	28623	76.9	13.827	375	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	1436653	23045	61.5	7.397	375			20.1	6.9	1.5		93
Wet Bulb	1219056	21292	56.8	5.203	375			2.7				93
Dew Point	1088216	20112	53.6	5.058	375							93

USAFETAC FORM 0-26-5 (OLA) REVISÉ PREVIOUS EDITIONS OF THIS FORM AND ORIGINATOR

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/VAC

# PSYCHROMETRIC SUMMARY

24197 BAD TOLZ GERMANY AAF 67-69  
STATION STATION NAME YEARS

PAGE 1 -23-  
MONTH

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24	25-26	27	28	29	30	31	DB	WB	Dry Bulb	Wet Bulb	Dew Point							
62/61		6.7		6.7																		2	2									
60/59	20.0	26.7	6.7																			4	4									
58/57		6.7																				1	1									
56/55																						1	1									
54/53			6.7	13.3																		3	3									
52/51			6.7																			1	1									
50/49																						1	1									
48/47																						1	1									
TOTAL	20.0	53.3	20.0	6.7																		14	14									
Element (X)	$\sum x^1$	$\sum x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature																										
rel. Hum.	122688	1351	90.1	7.573	15	≤ 0 F	≤ 32 F	≤ 67 F	≤ 75 F	≥ 80 F	≥ 93 F	Total																				
Dry Bulb	50380	868	57.9	3.292	15							93																				
Wet Bulb	47438	842	56.1	3.523	15							93																				
Dew Point	45468	824	54.9	3.807	15							93																				

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/AC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

66-67-69  
 YEARS

PAGE 1

MONTH 7  
 HOURS 15 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point							
64/63		3.2																							1	1									
62/61			3.2																					1	1										
60/59			3.2																					1	1										
58/57	3.2	6.5																						3	3										
56/55	6.5	9.7																						4	4										
54/53	3.2	3.2																						2	2										
52/51		16.1																						4	4										
50/49	9.7																							3	3										
48/47		9.7																						3	3										
46/45	6.5																							2	2										
44/43	3.2	9.7																						4	4										
42/41																																			
TOTAL	35.5	48.4	16.1																					21	21		31	31							

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	270888	2890	93.2	6.939	31	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	84841	1613	52.0	5.517	31							90
Wet Bulb	80781	1573	50.8	5.036	31							90
Dcw Point	78412	1552	50.1	4.871	31							5

USAF/ETAC FORM 0-26-5 (OLA) JUL 64 REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

34197 BAB TOLZ GERMANY AAF

65-69

STATION

STATION NAME

YEARS

MONTH

PAGE 1

MONTH

Temp (F)	WET BULB TEMPERATURE DEPRESSION (°)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15	16-17	18-19	20	21	22	23-24	25	26	27	28	29	30	31	TOTAL D B W B	Dry Bulb	Wet Bulb	Dew Point									
60/59			.4																				13	13											
58/57	2.1	2.1	.4		.4	.4																	22	22	14										
56/55	3.0	3.1	1.3																				16	16	22										
54/53	3.8	2.5	.4																				31	31	17	22									
52/51	3.8	4.2	4.7	.4																			30	30	29	22									
50/49	3.5	6.5	.6	.4																			34	34	44	2									
48/47	6.1	6.4	.6																				38	38	41	47									
46/45	11.4	3.0	1.7																				19	19	25	22									
44/43	7.2	.6																					51	51	41	2									
42/41	3.4	2.1																					13	13	14	11									
40/39	1.3	.6																					7	7	7	11									
38/37	2.1	.6	.4																				2	2	2	3									
36/35		.6																					2	2	2	3									
34/33	.6																						2	2	2	3									
32/31																																			
TOTAL	50.8	37.3	11.0	1.3	.4																		236	236	234	22									

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2089188	22094	93.6	7.930	236							6
Dry Bulb	558162	11410	48.3	5.266	236							6
Wet Bulb	534724	11172	47.3	4.991	236							6
Dew Point	516710	10976	46.5	5.150	236	1.1						6

USAFETAC FORM 34 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197  
 STATION

BAF TOLZ GERMANY AAF  
 STATION NAME

64-70  
 YEARS

YEARS

MONTH

PAGE 1

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point							
68/67						.2																				1	1								
66/65					.2	.2																				2	2								
64/63				.2																						1	1								
62/61		1.0	.6	.2																						9	5								
60/59		1.2	.8	.2	.4	.2																				14	14	4							
58/57	1.8	2.2	1.8	.4	.2																					32	32	22	1						
56/55	1.8	2.2	1.8	.2																						56	56	34	2						
54/53	1.8	4.2	1.6	1.2																						44	47	39	6						
52/51	3.0	4.5	3.6	.2																						57	57	41	6						
50/49	2.8	8.7	2.6	.8																						78	79	53	14						
48/47	3.7	3.9	2.2	.2																						71	71	51	71						
46/45	3.3	3.4	1.0																							53	53	34	14						
44/43	3.8	4.2	.2																							41	41	54	6						
42/41	2.4	1.2																								18	18	33	27						
40/39	1.6	.8	.2																							13	13	11	24						
38/37	1.0	.4																								7	7	11	11						
36/35	.8	.2																								3	3	4							
34/33	1.0	.2																								6	6	7							
32/31	.6	.2																								4	4	4	4						
30/29																														1					
TOTAL	33.4	45.5	16.2	3.6	.8	.6																					06	506	506	53					

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Rel. Hum.	4220130	46032	91.0	9.173	506							
Dry Bulb	1260430	23068	49.5	6.060	506			.7	.2			93
Wet Bulb	1185937	24335	48.1	5.557	506			.7				97
Dew Point	1128315	23725	46.9	5.613	506			.9				9

USAFETAC FORM 34 JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

64-7C

STATION

STATION NAME

YEARS

MONTH

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 HQ 95 11 57

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	DB. W.B.	Dry Bulb	Wet Bulb	Dew Point															
84/83											.4																							2	2				
82/81											.4													.2										6	4				
80/79											.8													.2										11	11				
78/77											.4																							7	7				
76/75											.8																							10	10				
74/73										.2	.4																							13	13				
72/71					.4	1.2	1.2	1.2	1.2	.6	.4																							25	25				
70/69				.4	1.4	3.2	.6	.2	.2	.6	.2																							30	27				
68/67				1.2	4.1	3.9	.6																											50	50				
66/65			.8	2.0	5.1	2.8	.8																											39	52	21			
64/63		.2	.6	3.2	2.2	2.0	.6	.2																										45	45	24	1		
62/61		.6	1.6	3.7	3.6	1.2	.2	.2																										57	47	47			
60/59	.2	.6	1.6	1.6	2.8	.8																												38	38	72	1		
58/57	.2	2.0	1.4	1.6	2.6	.6																												43	43	72	37		
56/55	.2	1.2	2.4	2.6	.6																														35	35	7	61	
54/53	.2	2.2	2.2	.4	.4	.2																													27	27	54	72	
52/51	.2	1.6	.6	.6																															15	15	54	61	
50/49	.8	1.6	1.6	.6																															23	23	52	73	
48/47	.2	.8																																	5	5	27	47	
46/45		.8																																	4	4	17	37	
44/43	.2	.2																																	2	2	4	31	
42/41	.2																																		1	1	2	10	
40/39																																							
38/37																																							
36/35																																							
34/33																																							
TOTAL	2.2	11.6	12.8	18.1	24.1	16.4	6.1	4.1	3.2	1.2	.2																									507	507	577	97
Element (X)	Zx'	Zx	X	x'	No. Obs.	Mean No. of Hours with T-temperature					Total																												
Rel. Hum.	2377158	33922	66.9	14.578	507	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																											
Dry Bulb	2022824	31782	62.7	7.767	507			27.3	8.7	2.5		92																											
Wet Bulb	1586121	28241	55.7	5.076	507							90																											
Dew Point	123253	25773	50.8	5.049	507							92																											

USAF ETAC FORM 0-26-5 (OLA) REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197      BAD TOLZ GERMANY AAF      64,66-70      STATION      STATION NAME      YEARS      MONTH

PAGE 1      1964      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	DB	WB	Dry Bulb	Wet Bulb	Dew Point	
84/83																			1	1				
82/81									.2										3	3				
80/79									.2	.4	.6								5	6				
78/77							.6	.9	.2										2					
76/75				.2		.2	1.3												1					
74/73				.2	.2	.9	.9	.9			.4								16	15				
72/71				.4	.6	3.2	.9												24	24				
70/69				.4	1.5	1.7	1.5	.2											25	25				
68/67			.2	.6	3.0	1.7	.6	.2											37	37	2		1	
66/65			.6	2.6	4.1	2.1	.2	.2											46	46	1		1	
64/63		.2	1.3	4.3	2.4	3.2													53	53	27		1	
62/61		.2	3.0	2.6	3.8	.9		.2											50	50	43		1	
60/59	.4	1.5	1.1	2.1	2.8	.6	.2												41	41	67		15	
58/57	.2	3.8	1.9	3.0	2.4	.2													54	54	74		46	
56/55	.2	3.0	1.3	2.6	.4														35	25	65		6	
54/53	.2	1.1	1.1	1.5	.4														27	27	5		7	
52/51		1.5	.9	.6															14	14	45		5	
50/49	.6	1.9	.9																16	16	32		5	
48/47	.4	.9	.4																8	5	25		5	
46/45	.4	1.1																	7	7	11		45	
44/43		.6																	3	3	5		21	
42/41																					2		15	
40/39																							7	
38/37																							4	
36/35																							1	
TOTAL	2.6	15.8	12.6	21.2	21.6	14.7	6.2	3.0	.6	1.7											468		468	468
Element (H)	Σx²		Σx		X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.	2327424		22388		69.2	14.338	468	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F											
Dry Bulb	1830911		29055		62.1	7.615	468			23.3	8.1	1.3		9										
Wet Bulb	1464875		26071		55.7	5.180	468			.6				9										
Dew Point	1241119		23981		51.2	5.131	468			.2				8										

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM 0-26-5 (OL-A)

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 8AD TULZ GERMANY AAF

66-70

STATION STATION NAME

YEARS

PAGE 1

MONTH 2  
 HOURS 13.7

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23	24	25	26	27-28	29	30	31	DB W.B.	Dry Bulb	Wet Bulb	Dew Point										
78/77					.3	.5	.3		.3														1	1											
74/73					.3	.5	.3																4	4											
72/71					.3	.5	.3																1	1											
70/69			.3	.5	.8	.3																	7	7											
68/67			.5	1.8	1.3	.5	.3																17	17											
66/65		.5	.8	1.3	1.5	1.0	.3																21	21	3										
64/63		.5	2.3	1.5	.8	.3																	21	21	3	4									
62/61	.3	1.8	4.9	1.3	.8																		35	25	22	7									
60/59		2.8	4.6	1.5	.5																		37	37	32	5									
58/57	.5	6.4	3.6	1.8	.3																		49	49	42	2									
56/55	.5	5.4	4.6	1.5			.3																48	42	62	28									
54/53	1.3	4.6	4.4	1.5				.3															44	34	54	51									
52/51	1.8	4.6	1.3	.8																			32	27	45	4									
50/49	.8	3.4	3.4																				29	26	39	4									
48/47	1.5	3.9	1.5	.3																			28	26	38	33									
46/45	.5	2.6																					12	12	3	2									
44/43																										2									
42/41																										11									
38/37																										1									
32/31																										1									
TOTAL	7.2	36.6	32.7	13.9	6.4	2.6	1.0		.3														388	328	312	322									
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature							Total																						
Rel. Hum.	2662557	21851	82.1	11.126	388	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	1266734	22038	56.8	6.225	388			7.0	1.2			90																							
Wet Bulb	1122033	20773	53.5	4.996	388			.2				90																							
Dew Point	1024185	19839	51.1	5.029	388			.2				90																							

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







DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-69

STATION

STATION NAME

YEARS

PAGE 1

MONTH - 5  
 HOURS - 5

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	DB. W B	Dry Bulb	Wet Bulb	Dew Point															
66/65																																		1			
58/57			.4	.4	.4	.4																											4	4			
56/55	.8	.4																															3	2	4		
54/53	1.7	2.1	2.1																														14	4	7		
52/51	.4	4.2	1.7																														15	5	1		
50/49	2.5	4.6	2.1																														22	22	1		
48/47	2.1	3.8	1.7																														17	10	24	7	
46/45	2.5	3.8	1.7	.4																													20	2	17	23	
44/43	2.9	3.5	.4																														21	21	22	16	
42/41	5.5	3.4	.4																														22	22	21	27	
40/39	5.5	3.4	1.7																														25	25	23	27	
38/37	3.8	3.8	.4																														19	19	19	23	
36/35	2.9	3.5																															27	2	22	14	
34/33	1.7	2.5																															17	1	13	13	
32/31	1.3	2.9																															17	10	17	11	
30/29	1.7	.8																															6	6	7	17	
28/27	1.3	1.7																															7	7	5	5	
26/25		.4																															1	1	2	1	
24/23																																				2	2
22/21																																				2	2
TOTAL	36.6	49.2	12.6	.8	.4	.4																												238	238	238	238

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1988077	21657	91.0	8.564	238	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	443848	10126	42.5	7.413	238		9.4					93
Wet Bulb	417489	9229	41.3	6.906	238		11.3					93
Dew Point	392953	9519	40.0	7.183	238		15.2					93

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

**PSYCHROMETRIC SUMMARY**

34197      BAD TOLZ GERMANY AAF      64-73  
 STATION      STATION NAME      YEARS

PAGE 1  
 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	DB WB	Dry Bulb	Wet Bulb	Dew Point																
68/ 67						.2																											1	1					
66/ 65							.2																											1	1				
64/ 63								.2																										1	1				
62/ 61							.4																											2	2				
60/ 59						.4	.2																											3	3				
58/ 57		.4	.2			.2	.2																											5	5				
56/ 55	.7	.9	1.1		.2	.2																												17	17				
54/ 53	1.3	.7	1.1		.2																													14	14				
52/ 51	.7	3.4	1.1	.9																														32	32	23	1		
50/ 49	2.3	3.8	1.3	.5																														44	44	4	35		
48/ 47	2.3	3.2	2.2	.4																														45	45	47	44		
46/ 45	3.2	2.9	2.2	.4																														48	47	41	44		
44/ 43	3.6	4.9	1.1	.2																														54	54	57	33		
42/ 41	2.9	4.0	1.1																															44	44	5	42		
40/ 39	2.9	4.5	1.3																															44	45	51	41		
38/ 37	3.6	5.2	.7																															53	53	54	42		
36/ 35	2.3	4.5	.5																															41	41	43	4		
34/ 33	3.1	3.2	.2																															36	36	43	57		
32/ 31	2.5	2.0																																25	25	31	21		
30/ 29	1.4	1.8																																18	18	14	23		
28/ 27	.9	1.3																																12	12	15	17		
26/ 25	.7	.2																																3	3	7	9		
24/ 23	.2																																	1	1	1	1		
22/ 21																																						3	
20/ 19																																						1	
TOTAL	34.8	46.9	13.9	2.3	.7	.9	.4																													554	554	554	
Element (X)	Zx'	Zx	X	X	No. Obs.	Mean No. of Hours with Temperature																																	
Rel. Hum.	4517922	49706	89.7	10.259	554	≤ 0 F	≤ 32 F	≥ 67 F	> 73 F	≥ 80 F	≥ 93 F	Total																											
Dry Bulb	1018291	23368	42.2	7.710	554		10.2	.2				93																											
Wet Bulb	943202	22578	40.8	7.122	554		12.3					93																											
Dew Point	881171	21719	39.2	7.329	554		18.0					93																											

USAF ETAC FORM 34-5 (OL A) 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

36197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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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	DB WB	Dry Bulb	Wet Bulb	Dew Point														
74/73							.2	.2										2	2																
72/71							.7											1	1																
70/69							.5											4	4																
68/67					.3	.2	.5	.2										7	7																
66/65				.3	.2	.7	1.2	.2										15	13																
64/63				.2	.8	.7	.7	.3										15	15																
62/61			1.3	1.8	1.2	.7	.7	.2										32	32																
60/59		.5	1.3	1.5	1.2	.8	.3	.2										24	24	7															
58/57		1.0	2.2	1.3	.8	.8	.3											39	37	25	4														
56/55		1.8	2.2	2.0	1.3	.5	.2											42	42	42	1														
54/53	.5	2.5	3.4	2.2	.7	.5	.2											59	59	57	2														
52/51	.3	2.3	1.5	1.0	.8	.3												38	34	57	45														
50/49	.7	3.2	2.3	1.7	.3	.3												51	41	43	52														
48/47	1.3	1.7	1.7	1.5	.3													39	29	22	61														
46/45	1.2	2.7	2.7	.7	.2													44	44	37	43														
44/43	.8	1.7	1.3	.8	.3													37	27	44	47														
42/41	1.2	3.9	1.3															36	36	44	55														
40/39	1.2	1.2	1.5	.2	.3													26	26	43	6														
38/37	1.5	3.7	.3	.2														34	34	24	42														
36/35	.3	3.4	.5															25	25	32	35														
34/33	.8	1.0																11	11	23	55														
32/31	.3	.3																4	4	11	21														
30/29		.3																2	2	2	15														
28/27																				1	7														
26/25																					7														
24/23																					1														
22/21																					1														
20/19																					1														
TOTAL	10.23	1.22	3.31	5.4	8.9	5.5	4.4	1.0	.2									597	597	597	597														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2693540	45992	77.015	885	597	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1546788	29918	50.1	8.926	597			.9	2.2	.3		93
Wet Bulb	1303199	27567	46.2	7.126	597			2.3				93
Dew Point	1112310	25400	42.5	7.286	597			7.6				93

USAF ETAC FORM 0-26-5 (OL A) JUL 64 REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

PAGE 1 12 -14  
 MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. WB	Dry Bulb	Wet Bulb	Dew Point																
78/77									.5	.2	.2							2		2																	
76/75									.5	.2	.2							5																			
74/73							.3	.5	.2	.5								6																			
72/71						.2	.9	1.0	.9									17		17																	
70/69						.5	1.2	1.0	.9									21		21																	
68/67				.3	.3	2.0	1.2	2.2	.2									37		37																	
66/65			.3	1.0	2.6	2.4	1.9	1.0	.9	.3								56		56																	
64/63			1.0	.7	1.5	2.6	1.7	.3	.5									40		40																	
62/61			1.2	1.7	.9	.9	.7	.3	.3									35		35	14	1															
60/59		.3	1.4	.9	1.4	1.5	.5	.3	.2									39		39	37	1															
58/57	.2	.5	1.7	.5	2.4	1.2	.2											39		39	37	1															
56/55		1.0	.5	1.5	1.7	.7	.2											33		33	31	1															
54/53	.2	2.6	1.4	1.0	.9	.9												40		40	74	37															
52/51	.2	2.2	1.0	1.2	.9	.9												37		37	60	56															
50/49	.3	1.0	.9	1.5	.9	.2												27		27	53	60															
48/47	.2	1.0	.9	.3	.7													16		16	42	45															
46/45	.5	1.7	2.9	.4														35		35	43	47															
44/43		1.5	1.5															18		18	39	44															
42/41	.3	1.2	.7															13		13	34	4															
40/39	.3	2.0	1.0	.7														24		24	24	45															
38/37	.7	3.1	.2															23		23	21	50															
36/35	.2	.3	.3															5		5	24	27															
34/33	.7	.3																6		6		44															
32/31	.2	.2																2		2		20															
30/29																																					
28/27																																					
26/25																																					
TOTAL	3.9	19.1	16.9	12.3	13.5	13.8	8.7	7.3	3.7	.7	.2							587		587		587															

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2778120	38994	66.4	17.901	587	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1907146	32922	56.1	15.178	587			3	13.9	2.1		93
Wet Bulb	1469389	29059	49.5	7.255	587			5				93
Dew Point	1164671	23795	43.9	7.290	587		5.2					93

USAF ETAC FORM 341 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 64w70  
 STATION STATION NAME YEARS MONTH  
 PAGE 1 5 -17  
 HOURS 15.7

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	DB WB	Dry Bulb	Wet Bulb	Dew Point																	
78/77									.4																								2	2				
76/75									.4																									2	2			
74/73									.2	.2																								2	2			
72/71							.5	.7	.5	.4																								12	12			
70/69						.2	1.1	.9	.5																									15	15			
68/67				.5	.2	.7	.5	.9	.2																									17	17			
66/65			.7	1.9	1.4	1.1	.4	.2																										32	32			
64/63			1.1	1.2	2.1	1.8	.2	.2																										37	37			
62/61			1.6	2.6	1.8	.9	.7	.5	.4																									43	43	14		
60/59		.4	1.4	1.6	1.8	.9	.5	.4																										39	39	24		
58/57	.2	.7	3.2	1.2	1.4	.5	.5	.2																										44	44	51	74	
56/55	.2	2.3	2.1	1.9	2.1	1.2	.2																											56	56	62	17	
54/53	.2	2.3	2.5	2.1	.5	.4																												45	45	51	21	
52/51	.4	1.1	1.4	1.2	.5																													26	26	54	57	
50/49		1.8	.9	1.8	.5																													28	28	54	45	
48/47	.2	1.4	1.6	.7	.7																													26	26	51	33	
46/45	.5	1.1	3.0	.5																														29	29	39	51	
44/43		1.2	2.6	.9																														27	27	29	34	
42/41	.2	2.5	1.4																															23	23	34	47	
40/39	.5	2.3	1.2	.5																														26	26	34	47	
38/37	.7	1.4	.4																															14	14	23	37	
36/35	.7	.2	.2																															5	5	12	42	
34/33	.5	.2																																4	4	7	33	
32/31	.5																																	3	3	4	7	
30/29	.2	.4																																3	3	2	7	
28/27																																					1	3
26/25																																					2	
TOTAL	4.8	19.0	24.5	17.6	13.8	9.3	5.3	4.1	1.6																										567	567	567	
Element (X)	Zx'	Zx	X	σx	No. Obs.	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																										
Rel. Hum.	2990369	40175	70.5	15.937	567			1.0	8.2	1.0		93																										
Dry Bulb	1724846	30794	54.2	9.623	567																																	
Wet Bulb	1386271	27727	48.9	7.327	567																																	
Dew Point	1141799	25099	44.2	7.372	567																																	

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-70

STATION

STATION NAME

YEARS

PAGE 1

MONTH

1-2

Temp (°C)	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	DB W.B	Dry Bulb	Wet Bulb	Dew Point													
68/67				.3	.3	.3	.3												1	1															
66/65				.3	.3	.3													3	3															
64/63				.3			.3												2	2															
62/61		.3	.5	.5	.8														1	1															
60/59		.8	1.1	1.6	.3	.3													16	16															
58/57	.3	2.1	2.3	.5		.3													21	21															
56/55	.5	2.6	2.6	1.0		.3	.3												28	28	29														
54/53	.3	3.4	3.4	2.1															35	35	34														
52/51	1.6	6.8	1.8	.8	.3														47	43	34	32													
50/49	1.2	8.8	1.8	.8															49	49	57	51													
48/47	1.8	4.9	3.1	1.0															42	42	47	47													
46/45	1.6	4.9	1.0	.8															32	22	4	20													
44/43	1.0	4.4	1.6	.3															25	25	51	32													
42/41	.8	4.9	1.0	.3															27	27	31	31													
40/39	2.3	1.3	1.3																19	19	34	37													
38/37	1.0	1.3	2.1																17	17	15	25													
36/35	.3	.8	.5																6	4	12	15													
34/33	.5	.3	.3																4	4	7	15													
32/31	.8																		3	3	5	14													
30/29																					1	6													
28/27	.3																		1	1	1	1													
26/25																																			
TOTAL	14.3	47.5	24.4	10.1	1.6	1.3	.8												385	385															
Element (X)	Zx²	Zx	X	Σx	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	2814840	32628	84,711,374	385	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																								
Dry Bulb	934079	18775	48,86,976	385		1.0	.2				93																								
Wet Bulb	842726	17850	46,46,278	385		1.7					93																								
Dew Point	767203	16993	44.16,653	385		3.8					93																								

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

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

**34197** **BAD TOLZ GERMANY AAF**  
STATION STATION NAME

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YEARS

PAGE 1 21 1953  
MONTH  
HOURS OF OBS.

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point	DB	WB	Dry Bulb	Wet Bulb	Dew Point									
48/47		20.0																																	1			
46/45																																						
44/43																																						
42/41			40.0																																		2	2
40/39	20.0																																				1	1
38/37		20.0																																			1	1
36/35																																						
TOTAL	20.0	80.0																																		5	5	
Element (X)	Z	X <sup>2</sup>	Z	X	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total																								
Rel. Hum.		43158		464	92.8	4,970	5	≤ 0 F	≤ 32 F	≤ 67 F	> 73 F	> 80 F	≤ 93 F																									
Dry Bulb		8698		208	41.6	3,362	5																															93
Wet Bulb		8275		203	40.6	2,881	5																															93
Dew Point		7866		198	39.6	2,510	5																															93

USAFETAC FORM 0-26-5 (OLA) 1/54 REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/AC

## PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

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 YEARS

YEARS

MONTH

PAGE 1 3 - 5  
 HOURS (S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24-25	26-27	28-29	30	31	DB	WB	Dry Bulb	Wet Bulb	Dew Point
64/63										.4									1	1			
60/59										.8									2	2			
58/57										.8									2	2			
56/55										.4	.4								2	2			
52/51										.4									1	1			
50/49										1.1									2	2			
48/47										.6									1	1			
46/45										1.5	.8								1	1			
44/43										1.1	.8								11	11	1	1	
42/41										1.5	.8	.4							13	13			
40/39										1.1	1.9								2	2	1	1	
38/37										2.6	3.8	1.5							2	2	2	1	
36/35										4.9	7.1								32	32	3	2	
34/33										2.6	2.6								14	14	3	2	
32/31										4.5	6.4								29	29	4	2	
30/29										6.0	4.1	.4							29	29	3	2	
28/27										3.8	5.6								25	25	2	1	
26/25										4.5	2.3								15	15	2	2	
24/23										2.6	3.0								15	15	1	1	
22/21										1.1	.4								3	3	2	1	
20/19										1.1	.4								4	4	4	4	
18/17																							
16/15										.8									2	2	2	2	
14/13																							
12/11																				1	1	1	
10/9										.8									2	2	2	2	
8/7										.4									1	1	1	1	
6/5										.4									1	1	2	1	
2/1																							
TOTAL	38.3	46.2	8.6	3.0	1.9	1.1	.8													266	266	266	
Element (X)	Zx'	Zx	X	X'	No. Obs.	Mean No. of Hours with Temperature						Total											
Rel. Hum.	2107982	23476	80.2	11.563	266	= 0 F	= 32 F	= 57 F	= 73 F	= 80 F	= 93 F	9											
Dry Bulb	225452	9036	33.7	8.824	266		43.7					9											
Wet Bulb	295309	8637	32.5	7.489	266		43.6					9											
Dew Point	260981	8108	30.5	7.274	266		53.8					9											

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



DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/TAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

HOURS IN S.F.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	DB	WB	Dry Bulb	Wet Bulb	Dew Point										
64/63								.4	.2																1										
62/61								.4	.2																	3									
60/59								.5																		3									
58/57						.2		.2	.2																	2									
56/55								.4																		2									
54/53						.5																				3									
52/51					.7																					4									
50/49				.7	.4																					6									
48/47	.2	.8	1.3	.4																						13	13								
46/45	.2	1.3	.9	1.1																						19	19	2	1						
44/43	1.1	2.2	1.1	.5	.4																					29	29	2	1						
42/41	.9	2.5	1.3	.4	.2																					29	29	2	17						
40/39	1.4	3.4	2.7	.2																						43	43	1	24						
38/37	1.4	4.2	1.6																							45	45	4	37						
36/35	4.3	7.2	.2	.2																						66	66	7	2						
34/33	3.4	6.0	.7	.2																						57	57	4	6						
32/31	5.1	3.9	.2																							47	47	5	2						
30/29	5.1	2.0																								39	39	5	5						
28/27	4.5	4.0																								47	47	4	3						
26/25	3.1	2.0																								28	28	3	3						
24/23	1.1	2.9																								22	22	2	2						
22/21	2.7	.9																								18	18	2	2						
20/19	1.3	.2																								8	9	1	2						
18/17	.9	.2																								6	6	6	4						
16/15	.4																									2	2	2	5						
14/13																													3						
12/11	.2	.4																								3	4	2	1						
10/9	.5	.2																								4	4	2	1						
8/7	.2																									1	1	3	3						
6/5	.2																									1	1	1	3						
4/3	.2																									1	1	1	2						
2/1																										1	1	1	2						
TOTAL	38.0	43.3	10.7	4.0	2.0	1.4	.5																			552	554	852	557						
Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.		Mean No. of Hours with Temperature								Total																				
Rel. Hum.	4260662	48026	67.0	12.2	552	$\leq 0$ F	$\leq 32$ F	$\leq 67$ F	$\leq 73$ F	$\leq 80$ F	$\leq 93$ F	Total																							
Dry Bulb	690492	18916	34.1	9.002	554		37.2					91																							
Wet Bulb	623216	18052	32.7	7.723	552		41.1					95																							
Dew Point	542864	16798	30.4	7.583	552		53.6					90																							

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

DATA PROCESSING DIVISION  
 USAF ETAC  
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PSYCHROMETRIC SUMMARY

34197      BAP TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

PAGE 1

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point													
66/65							.2	.2	.3																								4	4			
64/63							.2	.5	.2																								4	4			
62/61							.2	.2	.2																								2	3			
60/59							.2	.3	.2																								4	4			
58/57				.3			.5																										5	5			
56/55				.7	.3		.7																										5	6			
54/53				.7	.3		.3																										1	1			
52/51			.2	1.0	.7																												11	11			
50/49		.2	.7	1.2	.3	.3																											15	16			
48/47		.2	3.0	.8	.2																												19	19	1	2	
46/45		.2	2.5	3.7	1.2	.2	.2																										44	46	2	4	
44/43	.7	2.0	2.5	.7	.2	.2																											36	26	4	4	
42/41	.8	3.7	2.7	.7	.2																												6	6	4	3	
40/39	.8	3.5	2.4	.7																													44	44	5	4	
38/37	1.7	4.9	2.3	.3																													57	57	3	67	
36/35	3.2	3.1	1.9	.2																													61	61	7	71	
34/33	1.3	2.9	.3																														28	28	5	64	
32/31	3.7	3.7	.7																														48	48	4	70	
30/29	2.7	2.9	.8																														38	34	4	83	
28/27	4.4	2.5	.3																														43	43	4	51	
26/25	1.0	2.0	.3																														20	21	2	29	
24/23		1.7	.2																														11	11	1	17	
22/21	.3	1.0																															8	8	1	21	
20/19	.2	.3																															4	4	5	16	
18/17	.2	.2																															2	2	4	8	
16/15	.2																																1	1	1	3	
14/13																																					
12/11		.2																																1	1	2	4
10/9	.2																																	1	1	2	1
8/7																																		1	1	1	1
6/5																																					
4/3	.2																																	1	1	1	1
0/01																																		1	1	1	1

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 64-70  
 STATION STATION NAME YEARS

PAGE 2 MONTH - 11 - 1964  
 HOURS 10.577

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point	DB	WB	Dry Bulb	Wet Bulb	Dew Point							
TOTAL	21.9	41.5	21.2	7.9	2.7	2.5	1.2	1.0											593						593										
Element (X)	ΣX²		ΣX		Σ		Σ		No. Obs		Mean No. of Hours with Temperature						Total																		
Rel. Hum.	4042644		48216		51.2		14.371		593		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total												
Dry Bulb	898875		22445		37.8		9.129		593				27.0										90												
Wet Bulb	774016		20974		35.4		7.373		593				29.9										90												
Dew Point	641269		19049		32.1		7.042		593		.2		43.7										90												

USAF ETAC FORM 0-26-5 (DL 1) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

20-14  
 HOURS T 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	DB WB	Dry Bulb	Wet Bulb	Dew Point												
72/71									.2	.2																								3	3		
70/69									.2	.5																								4	4		
68/67									.3	.7																											
66/65									.3	.2																											
64/63									.7	.5																											
62/61				.2	.2				.7	.2																											
60/59					.3	.3			1.0	.3																										11	11
58/57				.2	.8	1.7			.5	.2																										20	20
56/55				.3	1.4	.8																														15	15
54/53				.5	1.5	.5			.8																											15	15
52/51				.5	.7	.2																														17	17
50/49				1.4	2.7	2.0																														36	36
48/47	.2	1.0	2.4	2.0	.8	.2																														39	39
46/45	.2	2.0	2.4	2.7	1.2	.2																														51	51
44/43	.5	2.0	2.7	2.4	.2																															46	46
42/41	.7	3.7	2.7	.8																																47	47
40/39	1.2	3.7	1.4	.3																																39	39
38/37	1.2	2.9	2.5	.3																																41	41
36/35	1.0	2.2	2.2	.2																																32	32
34/33	2.0	3.7	2.2																																	47	47
32/31	2.0	4.6	.8																																	44	44
30/29	1.5	1.5	.3																																	20	20
28/27	1.5	1.5	.3																																	20	20
26/25	.2	1.2																																		8	8
24/23		1.5																																		9	9
22/21		.2																																		1	1
20/19																																					
18/17	.2	.2																																		2	2
16/15																																					
12/11		.2																																		1	1
10/9																																					
8/7																																					
<b>TOTAL</b>	<b>12.3</b>	<b>32.1</b>	<b>21.6</b>	<b>13.2</b>	<b>8.8</b>	<b>4.1</b>	<b>4.4</b>	<b>1.7</b>	<b>1.2</b>	<b>.5</b>																										<b>592</b>	<b>592</b>

Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total
Rel. Hum.	3452901	44027	74.4	17.355	592							9
Dry Bulb	1127966	25108	42.4	10.345	592		16.0	2.3				9
Wet Bulb	907797	22756	38.4	7.480	592		21.3					9
Dew Point	706057	20081	33.9	6.491	592		36.8					9

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF  
 STATION STATION NAME

64-70  
 YEARS

PAGE 1 MONTH -17- HOURS 11, 5, 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	DB	WB	Dry Bulb	Wet Bulb	Dev Point																			
68/ 67								.3	.2									2	2																						
66/ 65								.2	.2	.3	.2								4	4																					
64/ 63								.2	.7	.3									7	7																					
62/ 61									.2	.5									4	4																					
60/ 59							.2	.5	.7																																
58/ 57						.2	.7	.3											7	7																					
55/ 53			.3	1.0	1.4	.5	.3											21	21																						
54/ 53			.3	.7	.8	.2												12	12																						
52/ 51		.2	1.0	2.0	.3	.2												22	22																						
50/ 49		.2	1.2	1.2	.5	.6												20	20			21	1																		
48/ 47	.2	1.2	1.4	.3	.5													22	22			37	1																		
46/ 45	.3	1.9	4.7	2.0	.3													55	55			41	2																		
44/ 43	.2	3.0	2.2	1.4														47	47			37	5																		
42/ 41	.8	3.7	3.2	.7														57	57			53	3																		
40/ 39	2.7	6.6	1.4	.2														64	64			65	3																		
38/ 37	1.5	3.6	1.7															40	40			55	7																		
36/ 35	1.9	4.7	.7															43	43			57	6																		
34/ 33	3.2	2.5	1.4															42	42			49	7																		
32/ 31	2.3	4.4	1.1															47	47			42	11																		
30/ 29	1.0	2.0	.7															22	22			37	4																		
28/ 27	2.9	2.4																31	31			57	3																		
26/ 25	1.0	1.2																13	13			17	2																		
24/ 23		1.0	.2															7	7			11	1																		
22/ 21		.5																3	3			2	1																		
20/ 19	.2	.3																3	3			4	1																		
18/ 17	.2																	1	1			2	1																		
16/ 15																																									
12/ 11																																									
TOTAL	18.6	39.4	21.3	9.6	4.6	2.2	2.5	1.5	.2									591	591			591	391																		
Element (X)	Z <sub>y</sub> <sup>2</sup>	Z <sub>x</sub>	X	e <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total																													
Rel. Hum.	3919908	47260	80,015,443		591	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F		90																												
Dry Bulb	1018692	23902	40,49,389		591		19,3	.5					50																												
Wet Bulb	863978	22192	37,57,210		591		22,7						50																												
Dew Point	713241	20161	34.16,572		591		33,3						90																												

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

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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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	DB WB	Dry Bulb	Wet Bulb	Dew Point														
68/67								.2																									1	1				
66/65								.2																									1	1				
64/63								.2																									1	1				
62/61								.4	.2																								3	3				
60/59						.2	.2	.2																									2	2				
58/57						.4	.4																										4	4				
54/53						.2	.2																										1	1		1		
52/51					.9	.9																											2	2		2		
50/49	.2	.4	.2	.4	.9																												1	1	7	1		
48/47		1.1	.7	.4	.2																												11	11	7	1		
46/45	.4	1.6	3.1	.4																													25	25	1	2		
44/43	.4	2.2	1.6																														19	19	1	14		
42/41	1.6	2.5	2.2	.4																													3	3	4	12		
40/39	3.6	6.1	1.6																														5	5	4	25		
38/37	3.6	4.9	.7																														41	41	54	65		
36/35	3.1	5.6	.4																														41	41	44	4		
34/33	4.3	4.9	.4																														44	44	44	57		
32/31	7.6	3.1																															48	48	5	63		
30/29	3.6	3.6																															33	33	37	27		
28/27	6.1	1.8	.2																														36	26	39	46		
26/25	1.3	2.0																															15	15	12	25		
24/23	.7	1.3																															9	9	1	12		
22/21	.4	.4																															4	4	7	11		
20/19	.9	.2																															5	5	2	5		
18/17																																				1	7	
16/15		.2																															1	1	1			
14/13		.4																															2	2	2	1		
12/11																																				1		
10/9																																				1		
8/7																																				1		
TOTAL	38.3	42.6	11.2	2.7	2.9	.7	.9	.7																											446	446	446	446

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3523626	39228	88.0	12.836	446	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	620344	16222	36.4	8.254	446		30.9	.2				9
Wet Bulb	561877	15539	34.8	6.785	446		33.5					9
Dew Point	497807	1325	32.8	6.401	446		41.2					9

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

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF

65-72

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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														
50/49			.5															1	1																
46/45			.5															1	1																
44/43			.5	.5														3	3																
42/41		.5	.5															2	2																
40/39	.9	2.8	.9	.5														11	11																
38/37	.5	4.2	1.9															14	14	1															
36/35		.9	1.4															5	5	1															
34/33	3.7	4.2	1.4															20	20	14	14														
32/31	4.2	7.4	.3															26	26	27	17														
30/29	3.7	2.8																14	14	27	17														
28/27	4.7	5.1																21	21	14	24														
26/25	4.2	3.7																17	17	17	21														
24/23	7.9	2.3																22	22	23	17														
22/21	1.9	2.3																9	9	1	2														
20/19	4.7	.9																17	14	14	5														
18/17	3.3	1.4																10	10	1	15														
16/15	1.4	.5																4	5	4	1														
14/13	1.4																	3	3	3	4														
12/11		.5																1	2	1	5														
10/9	2.3	.5																6	6	4	3														
8/7	1.9																	4	4	4	4														
6/5	1.9																	4	4	4	4														
4/3																																			
2/1	.9																	2	3	2	2														
0/0	.5																	1	1	1	1														
02/03																																			
04/05	.5																	1	1	1	1														
08/09	.5																	1	1	1	1														
12/13																																			
TOTAL	50.7	40.0	8.4	.9														215	220	215	215														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$< 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Rel. Hum.	1693067	19007	88.4	7.722	215							93
Dry Bulb	170966	5742	26.7	9.816	220	1.3	68.9					93
Wet Bulb	158104	5494	25.6	9.098	215	1.3	74.0					93
Dew Point	136240	5018	23.3	9.453	215	2.2	80.5					93

USAFETAC FORM 34-33 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

34197 8AD TOLZ GERMANY AAF  
 STATION STATION NAME

64-70  
 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	DB	WB	Dry Bulb	Wet Bulb	Dew Point															
48/47			.4																	3	2																	
46/45			.4																	2	2																	
44/43			.2	1.0																6	1																	
42/41	.4	.4	1.0	.2																1	1																	
40/39	.6	1.5	1.1																	17	17																	
38/37	.2	3.6	.8																	24	24																	
36/35		3.4	1.3	.2																25	25																	
34/33	2.1	4.2	1.7																	42	42																	
32/31	5.1	4.8	1.1																	58	48																	
30/29	3.2	3.6																		36	26																	
28/27	4.2	4.8	.2																	44	44																	
26/25	3.6	2.7																		33	33																	
24/23	4.6	2.1																		35	25																	
22/21	6.1	1.7																		41	41																	
20/19	2.7	.6																		17	21																	
18/17	3.6	1.0																		24	24																	
16/15	3.8	.2																		21	22																	
14/13	3.0	.2																		17	17																	
12/11	1.7	.4																		11	11																	
10/9	2.1	.4																		13	13																	
8/7	1.9	.2																		11	11																	
6/5	1.5	.2																		9	11																	
4/3	.6	.2																		4	4																	
2/1	1.1																			6	6																	
0/-1	1.0																			5	5																	
-2/-3	.6																			3	3																	
-4/-5	.4																			2	2																	
-6/-7	.4																			2	2																	
-8/-9																																						
-10/-11																																						
TOTAL	54.5	36.2	9.0	.4																	525		371		525													

Element (X)	Z <sub>x</sub> <sup>2</sup>	Z <sub>x</sub>	X	X <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4198425	46709	89.0	9,022	525	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	389705	13297	25,0	10,346	531	2.1	70.4					53
Wet Bulb	360644	12774	24,3	9,752	525	2.1	73.8					53
Dew Point	313561	11671	22.2	10,162	525	4.1	82.2					43

USAFETAC FORM 0-26-5 (OL A) REVERSED MIRROR EDITIONS OF THIS FORM ARE OBSOLETE





DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

**34197** **BAD TOLZ GERMANY AAF** **64m70**  
 STATION STATION NAME YEARS MONTH  
 01 02 14  
 HOURS 157

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24	25-26	27	28	29-30	*31	DB	WB	Dry Bulb	Wet Bulb	Dew Point												
52/ 51			.2																													1				
50/ 49			.2	.3																												3				
48/ 47			.2	.9	.7	.3																										12				
46/ 45			.5	.3	1.4	.2																										14				
44/ 43		.7	1.7	.5	.7																											21				
42/ 41		1.2	2.6	1.4	.2																											31		24		
40/ 39		3.6	2.4	1.0	.5																											44		27		
38/ 37	.3	1.2	5.1	.5																												42		50		
36/ 35	.3	3.4	3.9	.5																												48		42		
34/ 33	2.2	5.0	1.5	.2																												57		72		
32/ 31	2.6	6.2	1.4																													59		74		
30/ 29	3.4	5.5	1.0																													58		78		
28/ 27	2.1	4.8	1.0																													44		53		
26/ 25	1.9	2.4	.3																													27		44		
24/ 23	2.7	2.4	.3																													32		31		
22/ 21	1.4	2.4	.5																													25		27		
20/ 19	1.5	3.6																														37		31		
18/ 17	1.2	1.9																														18		24		
16/ 15	.5	.5																														6		9		
14/ 13	1.2	.9																														12		17		
12/ 11	.2																															1		6		
10/ 9	.2																															1		1		
8/ 7																																			4	
6/ 5																																			2	
4/ 3																																			4	
2/ 1																																			1	
<b>TOTAL</b>	<b>21.84</b>	<b>45.62</b>	<b>3.0</b>	<b>5.7</b>	<b>3.4</b>	<b>.5</b>																											<b>583</b>	<b>583</b>	<b>583</b>	<b>93</b>

USAF ETAC FORM 0-26-5 (OL A) JUL 54 REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\Sigma x^2$	No. Obs.	Mean No. of hours with Temperature						
Rel. Hum.	3863303	46853	80.4	12,972	583	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb	816277	18349	31.3	8,162	583		50.2					93
Wet Bulb	534398	17160	29.4	7,088	583		58.4					93
Dew Point	419141	15023	25.8	7,418	583		78.5					93

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/4AC

PSYCHROMETRIC SUMMARY

34197 BAF TOLZ GERMANY AAF

64-70

STATION

STATION NAME

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	DB	WB	Dry Bulb	Wet Bulb	Dew Point											
54/ 53				.2																1	1														
50/ 49			.4		.4															4	4														
48/ 47				.4	.2															3	3														
46/ 45			.7	.4	.9															11	11														
44/ 43			1.3	1.1																13	13														
42/ 41		1.1	2.2		.2															19	19														
40/ 39		2.6	3.1	1.5																39	39	2													
38/ 37	.6	2.6	2.9	.4																35	35	4	1												
36/ 35	.4	3.7	2.9	.7																42	42	3	1												
34/ 33	2.4	5.2	1.5	.4																51	51	2	2	25											
32/ 31	2.0	5.1	.9																	49	49	5	4	4											
30/ 29	3.5	8.1	.9																	69	69	7	5	5											
28/ 27	3.5	5.7	.4																	52	52	5	7	7											
26/ 25	3.1	2.6																		31	31	4	5	5											
24/ 23	2.4	2.2	.2																	26	26	2	2	2											
22/ 21	2.2	2.0	.2																	27	27	2	2	2											
20/ 19	1.8	1.7	.4																	21	21	2	2	2											
18/ 17	3.5	1.8																		29	29	3	1	1											
16/ 15	1.1	.4																		11	11	1	1	1											
14/ 13	.9	.4																		7	7	1	1	1											
12/ 11	.4	.2																		3	3	1	1	1											
10/ 9		.6																		3	3	2	2	2											
8/ 7																																			
6/ 5	.2																			1	1	1	1	1											
2/ 1																																			
TOTAL	28.0	46.8	18.6	5.0	1.7																543	543		543											

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3837875	45185	82.2	11.986	543	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb	524482	16460	30.3	6.096	543		35.7					93
Wet Bulb	473005	15555	28.6	7.111	543		62.9					93
Dew Point	382997	13869	25.5	7.285	543		80.3					93

REPLACES PREVIOUS EDITIONS OF THIS FORM AND CASSETTE

FORM 0-26-5 (OLA)

AR 44

USAFETAC

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

34197 BAD TOLZ GERMANY AAF 65-70

STATION

STATION NAME

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	DB WB	Dry Bulb	Wet Bulb	Dew Point									
54/ 53						.3																				1									
52/ 51			.3																								2								
50/ 49																																			
48/ 47						.3																				1	1								
46/ 45			.3			.3																				2	2								
44/ 43			.3			.3																				4	4								
42/ 41		1.0	2.0	.3		.3																				13	13								
40/ 39		2.5	2.9	.5																						21	21								
38/ 37	.3	2.5	1.0																							15	15	2							
36/ 35	.3	3.0	.3			.3																				17	17	17	1						
34/ 33	1.8	6.8	.3			.3																				37	37	3							
32/ 31	2.8	7.4	.3			.3																				41	41	4							
30/ 29	5.3	4.8																								47	4	5							
28/ 27	6.3	4.1																								41	4	4							
26/ 25	5.3	3.8																								36	26	32	24						
24/ 23	4.8	1.3																								23	23	37	4						
22/ 21	1.8	3.8																								22	22	19							
20/ 19	2.8	1.3																								16	17	17	14						
18/ 17	4.8	.8																								20	2	21	22						
16/ 15	3.8	.3																								14	14	15	24						
14/ 13	1.8	.3																								6	6	6	1						
12/ 11	1.8	.3																								7	7	4	7						
10/ 9	1.8																									5	5	5	5						
8/ 7	1.0																									4	4	4	2						
6/ 5	.3																									3	3	3							
4/ 3	.3	.3																								3	3	3	3						
2/ 1																														3					
0/ 0																														1					
W/B																														1					
TOTAL	43.7	44.4	8.4	1.3	.8																										394				
																																394			

USAFETAC FORM 0-2A-5 (01A) JUL 64 REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

34197 BAD TOLZ GERMANY AAF

64-70

STATION

STATION NAME

YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	33.5	33.2		42.9	45.3	51.0		50.0	52.0	39.5			44.5
	S D		3.189		6.936	5.737	7.842			5.517				7.000
	TOTAL OBS	2	6		59	39	9		2	31	2			152
03-05	MEAN	24.9	28.1	30.6	35.8	44.1	49.5	53.7	52.3	48.3	42.5	33.7	26.1	37.5
	S D	10.607	9.847	6.664	7.071	6.510	6.338	6.285	5.390	5.266	7.413	8.824	9.814	12.004
	TOTAL OBS	226	243	276	250	199	206	221	243	236	238	268	227	272
06-08	MEAN	24.2	28.2	30.7	38.3	47.7	54.9	57.4	54.8	49.5	42.2	34.1	25.0	41.5
	S D	11.195	10.258	7.807	7.146	6.954	7.523	6.739	6.108	6.060	7.717	9.002	10.346	14.007
	TOTAL OBS	447	430	558	537	537	522	505	594	506	554	554	531	607
09-11	MEAN	26.8	31.4	36.5	46.0	54.7	61.8	64.6	61.8	57.9	50.1	37.8	27.1	42.7
	S D	10.217	9.457	8.620	9.558	8.495	9.843	8.800	7.944	7.131	8.926	9.129	9.447	14.111
	TOTAL OBS	516	465	558	577	537	522	505	534	528	597	592	600	649
12-14	MEAN	32.1	36.5	41.0	49.5	57.6	65.1	68.2	65.4	62.7	56.1	42.4	31.5	51.4
	S D	9.523	9.177	9.503	10.739	9.935	10.680	9.563	9.126	7.767	10.178	10.345	8.162	16.063
	TOTAL OBS	500	462	558	537	527	512	494	518	507	587	592	583	636
15-17	MEAN	31.0	36.2	40.9	49.8	57.4	65.1	67.9	65.4	62.1	54.3	40.4	31.5	49.7
	S D	9.540	9.232	9.474	11.044	10.165	10.907	9.397	9.279	7.615	9.623	9.389	8.111	16.192
	TOTAL OBS	492	461	558	534	521	507	456	491	468	567	591	542	619
18-20	MEAN	27.3	31.8	37.2	45.5	54.1	61.0	65.3	61.5	56.8	48.8	36.4	27.7	45.3
	S D	9.492	8.336	8.305	9.600	8.744	9.738	8.317	7.397	6.225	6.976	8.254	8.732	15.176
	TOTAL OBS	358	358	465	485	393	338	339	375	388	385	446	395	472
21-23	MEAN	32.3	24.7	44.0	44.6	48.5	59.9	67.3	57.9	53.8	41.6			42.5
	S D	2.251	9.583		6.066	6.683	3.534	1.708	3.292	6.036	3.362			8.996
	TOTAL OBS	6	6	1	106	60	11	4	15	66	5			28
ALL HOURS	MEAN	28.1	22.4	36.6	45.0	53.3	60.6	63.6	60.8	56.8	49.8	38.0	28.2	44.5
	S D	10.476	9.963	9.535	10.528	9.874	10.759	9.760	9.126	8.642	10.208	10.761	9.356	15.794
	TOTAL OBS	2547	2431	2974	3045	2813	2627	2514	2712	2730	2935	3044	2875	3374

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

NET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATI

34197 BAD TOLZ GERMANY AAF

64-70

STATION	STATION NAME	YEARS												
MPS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	34.5	32.7		40.9	43.5	49.6		49.0	50.8	38.5			
	S D		2.422		6.394	4.937	7.020			5.036				
	TOTAL OBS	2	6		59	39	9		2	31	2			
03-05	MEAN	24.3	27.1	29.7	34.5	42.2	47.9	52.0	51.0	47.3	41.3	32.5	24.0	37.9
	S D	10.105	8.846	6.108	6.493	5.663	5.522	5.376	4.966	4.991	6.986	7.489	9.091	11.000
	TOTAL OBS	225	241	276	250	199	206	221	243	236	238	266	215	215
06-08	MEAN	23.8	27.0	29.3	36.3	44.6	51.6	54.3	52.6	48.1	40.8	32.7	24.2	37.1
	S D	10.357	9.260	7.134	6.378	5.571	5.919	5.397	5.045	5.557	7.122	7.723	9.752	12.040
	TOTAL OBS	439	427	558	537	537	522	505	534	506	554	552	527	513
09-11	MEAN	25.8	29.3	33.4	41.0	48.5	55.0	58.0	56.4	53.3	46.2	35.4	25.9	42.7
	S D	9.374	8.251	6.606	6.927	6.020	6.621	5.876	5.191	5.169	7.126	7.373	8.729	13.519
	TOTAL OBS	510	465	558	537	537	522	505	534	528	597	593	601	647
12-14	MEAN	29.7	33.1	36.3	43.1	49.9	56.6	59.5	58.0	55.7	49.5	38.4	29.4	44.4
	S D	8.167	7.185	6.493	7.006	6.246	6.813	6.111	5.414	5.076	7.253	7.480	7.086	12.650
	TOTAL OBS	498	462	558	537	527	512	484	518	507	527	592	583	635
15-17	MEAN	29.1	33.0	36.3	43.1	50.0	56.5	59.4	57.9	55.7	48.9	37.5	28.4	44.4
	S D	8.197	7.296	6.543	7.264	6.243	6.720	5.984	5.436	5.180	7.327	7.210	7.111	12.729
	TOTAL OBS	488	461	558	534	521	507	456	491	468	567	591	543	615
18-20	MEAN	27.2	30.2	34.4	41.0	48.5	54.9	58.9	56.8	53.5	46.4	34.5	26.3	42.4
	S D	8.565	7.269	6.360	7.065	5.845	6.685	5.942	5.203	4.996	6.278	6.783	7.978	12.913
	TOTAL OBS	347	358	465	485	393	338	339	375	388	385	446	394	473
21-23	MEAN	30.7	28.2	40.0	42.1	45.8	53.8	60.8	56.1	52.1	40.6			45.1
	S D	1.506	9.368		5.562	5.193	2.040	6.957	3.523	5.252	2.881			7.387
	TOTAL OBS	6	6	1	106	60	11	4	15	66	5			25
ALL HOURS	MEAN	27.0	30.2	33.5	40.4	47.7	54.4	57.4	55.8	52.6	46.0	35.6	26.9	42.2
	S D	9.328	8.359	7.139	7.432	6.430	6.964	6.339	5.764	6.060	7.813	7.668	8.462	13.089
	TOTAL OBS	2513	2426	2974	3045	2813	2627	2514	2712	2730	2935	3040	2861	33192

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

### MEANS AND STANDARD DEVIATIONS

DEWPOINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

34197 BAD TOLZ GERMANY AAF 64-70

STATION	STATION NAME	YEARS												
HRS U.S.T.		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	33.5	28.8		38.8	41.8	48.4		48.5	50.1	37.0			40.1
	S D		2.041		6.775	4.639	6.386			4.871				7.71
	TOTAL OBS	2	0		59	39	9		2	31	2			
03-05	MEAN	22.2	24.5	27.8	32.6	40.4	46.6	50.8	50.0	46.5	40.0	30.3	23.3	37.0
	S D	10.858	9.026	6.250	6.709	5.731	5.335	5.247	4.957	5.150	7.185	7.274	9.453	12.447
	TOTAL OBS	225	241	276	250	195	206	221	243	236	238	266	215	211
06-08	MEAN	21.5	24.2	26.5	35.6	41.7	49.2	52.2	51.1	46.9	39.2	30.4	22.7	37.0
	S D	11.089	9.607	7.913	6.593	5.458	5.530	5.253	4.892	5.613	7.329	7.583	10.162	13.15
	TOTAL OBS	499	427	558	537	537	522	505	534	506	554	552	521	514
09-11	MEAN	22.8	25.4	28.9	35.7	43.2	50.4	53.8	52.9	49.9	42.5	32.1	23.7	37.2
	S D	9.958	8.601	6.619	6.588	5.747	5.897	5.272	4.824	5.045	7.286	7.042	9.279	12.25
	TOTAL OBS	510	465	558	537	537	522	505	534	528	597	593	601	647
12-14	MEAN	25.5	28.0	30.4	36.1	43.6	50.9	54.3	53.2	50.8	43.9	33.9	25.8	37.2
	S D	8.567	7.454	6.118	6.543	6.064	6.176	5.509	4.912	5.049	7.290	6.491	7.418	12.332
	TOTAL OBS	498	462	558	537	527	512	484	518	507	587	592	583	636
15-17	MEAN	25.5	28.2	30.5	36.0	43.9	50.8	54.2	53.0	51.2	44.3	34.1	25.5	37.2
	S D	8.403	7.322	6.032	6.630	5.788	5.861	5.530	4.830	5.131	7.372	6.572	7.285	12.25
	TOTAL OBS	488	461	558	534	521	507	456	491	468	567	591	542	615
18-20	MEAN	25.2	27.3	30.4	36.3	43.8	50.7	54.9	53.6	51.1	44.1	32.8	24.4	37.1
	S D	9.017	7.560	6.076	6.637	5.415	6.073	5.889	5.058	5.029	6.653	6.401	8.072	12.554
	TOTAL OBS	347	358	465	485	393	338	339	375	388	385	445	394	473
21-23	MEAN	27.0	18.5	35.0	39.4	43.3	52.0	57.0	54.9	51.0	39.6			42.0
	S D	8.894	11.912		6.077	4.586	2.166	2.000	3.807	5.003	2.510			2.957
	TOTAL OBS	6	6	1	106	60	11	4	15	66	5			5
ALL HOURS	MEAN	23.9	26.4	29.2	35.5	43.0	50.1	52.5	52.5	49.7	42.5	32.5	24.7	37.0
	S D	9.709	8.408	6.746	6.754	5.770	5.961	5.573	5.023	5.481	7.480	7.025	8.705	12.752
	TOTAL OBS	2515	2426	2974	3045	2813	2627	2314	2712	2730	2935	3040	2861	3317

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DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/AC

RELATIVE HUMIDITY

34107 BAD TOLZ GERMANY AAF

54-70

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	100.0	99.5	95.8	89.6	72.1	44.3	85.2	2515
FEB		100.0	100.0	99.9	99.0	96.9	92.5	76.9	55.4	25.5	79.7	2420
MAR		100.0	100.0	99.7	97.0	91.6	83.5	59.7	46.8	27.9	70.8	2974
APR		100.0	100.0	99.0	94.6	88.3	79.8	67.4	49.6	26.0	76.1	3045
MAY		100.0	100.0	99.6	95.6	88.7	76.7	66.1	47.6	23.7	75.4	2813
JUN		100.0	100.0	99.9	98.0	89.7	78.5	63.3	46.5	22.2	75.7	2627
JUL		100.0	100.0	99.9	98.7	91.4	77.9	51.5	37.1	17.4	73.1	2514
AUG		100.0	100.0	100.0	98.5	94.1	85.4	74.9	62.0	40.3	81.2	2712
SEP		100.0	100.0	100.0	99.3	97.3	89.5	78.3	61.6	39.0	82.9	2737
OCT		100.0	100.0	99.8	98.5	94.7	88.3	80.8	67.3	40.5	82.9	2935
NOV		100.0	100.0	100.0	98.8	95.6	90.4	80.5	66.3	41.5	83.2	3040
DEC		100.0	100.0	100.0	100.0	99.2	97.1	90.0	73.6	42.8	85.8	2861
TOTALS		100.0	100.0	99.8	98.2	93.8	86.4	73.3	57.2	32.6	79.8	33192





DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

34197 BAF TOLZ GERMANY AAF

65-70

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%		
FEB	00=02	100.0	100.0	100.0	100.0	100.0	100.0	93.3	33.3		77.7	
	03=05	100.0	100.0	100.0	100.0	98.8	96.7	92.1	75.9	45.2	86.0	241
	06=08	100.0	100.0	100.0	100.0	99.3	97.4	87.4	73.3	43.1	85.1	427
	09=11	100.0	100.0	100.0	100.0	96.8	90.5	77.4	54.2	26.7	79.6	465
	12=14	100.0	100.0	99.1	95.9	90.0	78.4	58.0	41.8	15.6	73.1	462
	15=17	100.0	100.0	99.8	97.0	92.2	81.1	60.7	43.2	16.1	74.5	461
	18=20	100.0	100.0	100.0	99.2	98.0	93.5	89.7	71.5	40.8	84.4	358
	21=23	100.0	100.0	100.0	100.0	100.0	100.0	66.7	50.0	16.7	77.2	6
TOTALS		100.0	100.0	99.9	99.0	96.9	92.5	76.9	55.4	25.5	79.7	2426

















DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE/MAC

**RELATIVE HUMIDITY**

34197 BAD TOLZ GERMANY AAF

64-70

707

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%			
01	00-02	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	50.0	90.5	2
	03-05	100.0	100.0	100.0	100.0	100.0	99.2	98.3	87.4	56.3	91.0	91.0	238
	06-08	100.0	100.0	100.0	100.0	99.3	97.8	94.6	82.3	55.4	89.7	89.7	554
	09-11	100.0	100.0	100.0	98.8	92.5	82.4	68.0	46.1	24.3	77.0	77.0	597
	12-14	100.0	100.0	99.1	92.3	78.2	58.6	43.1	26.4	10.2	66.4	66.4	587
	15-17	100.0	100.0	99.6	96.6	88.3	72.0	53.3	29.3	11.8	70.9	70.9	567
	18-20	100.0	100.0	100.0	100.0	98.7	96.6	89.1	67.0	36.1	84.7	84.7	385
	21-23	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	80.0	92.8	92.8	5
TOTALS		100.0	100.0	99.8	98.3	94.7	88.3	80.8	67.3	40.3	82.9	82.9	2935

DATA PROCESSING DIVISION  
 ETAC/USAF  
 AIR WEATHER SERVICE/MAC

### RELATIVE HUMIDITY

34197 BAD TOLZ GERMANY AAF 64=70  
 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%		
NOV	00=02											
	03=05	100.0	100.0	100.0	100.0	98.5	96.6	91.4	80.8	55.3	88.2	266
	06=08	100.0	100.0	100.0	100.0	98.6	95.3	89.5	78.1	48.6	87.0	552
	09=11	100.0	100.0	100.0	99.0	95.6	90.7	78.1	60.2	32.4	81.3	593
	12=14	100.0	100.0	99.7	96.3	88.5	77.5	60.5	42.4	22.6	74.4	592
	15=17	100.0	100.0	100.0	98.1	94.9	87.8	74.1	56.7	31.0	80.0	591
	18=20	100.0	100.0	100.0	99.3	97.5	94.4	89.5	79.8	59.2	88.0	446
	21=23											
TOTALS		100.0	100.0	100.0	98.8	95.6	90.4	80.5	66.3	41.5	83.2	3040



DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

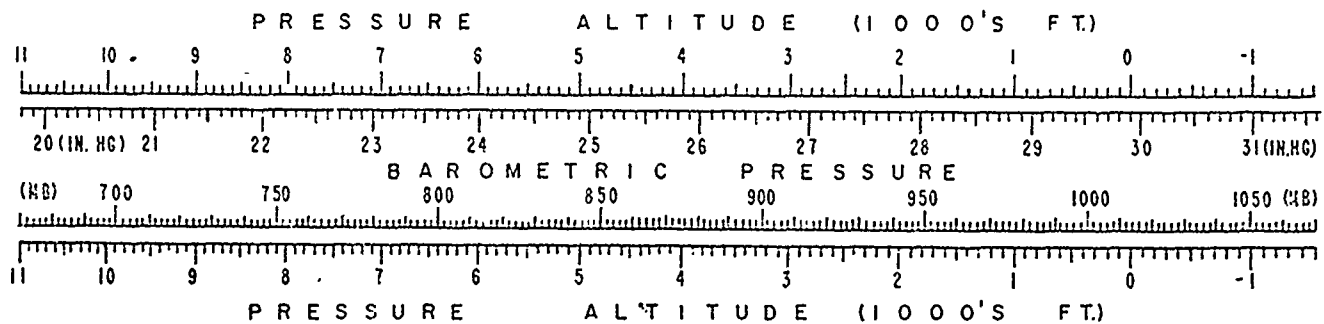
## PART F

## 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 to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

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



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MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM QUARTLY OBSERVATIONS

34197 BAD TOLZ GERMANY AAF

65-70

STATION

STATION NAME

YEARS

HRS (LST)	MEAN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
01	MEAN S D TOTAL OBS	27,720 27,840			27,431 27,557	27,577			27,780 27,524	27,63				
		1	2		28	19	3		1	5	1			
04	MEAN S D TOTAL OBS	27,516 27,405	27,475 27,492	27,510 27,510	27,492 27,510	27,510 27,625	27,625 27,679	27,679 27,572	27,572 27,580	27,580 27,615	27,615 27,672	27,672 27,483	27,483 27,44	
		99	107	122	106	62	60	78	93	91	93	119	84	
07	MEAN S D TOTAL OBS	27,489 27,398	27,506 27,467	27,467 27,542	27,542 27,602	27,602 27,643	27,643 27,580	27,580 27,615	27,615 27,619	27,619 27,471	27,471 27,467	27,467 27,467	27,467 27,467	
		148	138	155	149	147	144	145	153	146	155	178	172	
10	MEAN S D TOTAL OBS	27,503 27,408	27,516 27,495	27,495 27,549	27,549 27,604	27,604 27,547	27,547 27,591	27,591 27,624	27,624 27,634	27,634 27,488	27,488 27,434	27,434 27,434	27,434 27,434	
		148	139	155	149	148	144	144	153	146	155	178	172	
13	MEAN S D TOTAL OBS	27,491 27,390	27,504 27,481	27,481 27,538	27,538 27,594	27,594 27,633	27,633 27,580	27,580 27,609	27,609 27,613	27,613 27,467	27,467 27,467	27,467 27,467	27,467 27,467	
		144	138	155	149	143	139	140	151	145	155	178	163	
16	MEAN S D TOTAL OBS	27,492 27,378	27,489 27,461	27,461 27,523	27,523 27,581	27,581 27,621	27,621 27,569	27,569 27,594	27,594 27,600	27,600 27,463	27,463 27,464	27,464 27,464	27,464 27,464	
		144	139	155	148	143	139	140	151	145	155	178	154	
19	MEAN S D TOTAL OBS	27,519 27,414	27,478 27,472	27,472 27,519	27,519 27,589	27,589 27,650	27,650 27,571	27,571 27,608	27,608 27,671	27,671 27,500	27,500 27,491	27,491 27,491	27,491 27,491	
		115	110	123	145	128	109	109	120	134	123	148	130	
22	MEAN S D TOTAL OBS	27,800 27,830			27,451 27,534	27,607 27,700	27,700 27,606	27,606 27,668	27,668 27,64					
		2	1		35	21	3	1	5	22	1			
ALL HOURS	MEAN S D TOTAL OBS	27,501 27,400	27,496 27,478	27,478 27,533	27,533 27,597	27,597 27,643	27,643 27,578	27,578 27,638	27,638 27,630	27,630 27,477	27,477 27,47	27,47 27,47	27,47 27,47	
		801	774	865	909	811	741	757	827	834	838	979	94	

DATA PROCESSING DIVISION  
 USAF ETAC  
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### MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN HRS FROM HOURLY OBSERVATIONS

34197 BAD TDLZ GERMANY AAF

66-67

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
01	MEAN	1028.6			1008.1	1017.4		1023.5	1016.8	1018.7			
	S D												
	TOTAL OBS	2			1	2		1	2	1			
04	MEAN	1022.7	1020.5	1019.8	1015.5	1013.9	1019.4	1018.4	1016.9	1016.2	1018.2	1018.1	1017.7
	S D	5.223	9.546	8.944	7.511	6.630	4.528	3.505	3.619	5.371	6.512	9.357	7.79
	TOTAL OBS	31	26	30	30	31	30	31	31	31	31	59	61
07	MEAN	1022.7	1021.7	1020.9	1016.1	1014.7	1019.7	1016.9	1017.0	1018.1	1015.4	1018.6	1017.4
	S D	5.248	9.466	8.688	7.503	6.481	4.623	4.308	3.745	4.709	7.115	9.903	7.932
	TOTAL OBS	31	28	31	30	31	30	62	62	60	62	60	62
10	MEAN	1023.4	1021.9	1021.1	1016.1	1014.8	1019.7	1016.8	1017.1	1018.1	1015.4	1018.3	1018.1
	S D	5.197	9.345	8.838	7.404	6.168	4.311	4.346	3.671	4.752	7.189	9.848	7.912
	TOTAL OBS	31	28	31	30	31	30	62	62	60	62	60	62
13	MEAN	1022.5	1020.8	1020.9	1015.3	1014.3	1019.7	1016.5	1016.6	1017.3	1014.0	1018.6	1017.7
	S D	5.521	9.793	8.413	7.337	6.296	4.141	4.177	3.599	4.763	7.100	9.645	7.476
	TOTAL OBS	31	28	31	30	31	30	62	62	60	62	60	62
16	MEAN	1022.4	1020.1	1020.2	1014.9	1013.8	1019.1	1016.2	1016.2	1016.6	1013.7	1018.9	1017.3
	S D	5.590	9.761	8.203	6.866	6.284	4.155	4.112	3.825	4.815	7.199	9.453	7.645
	TOTAL OBS	31	28	31	30	31	30	62	62	60	62	60	62
19	MEAN	1023.3	1021.5	1020.7	1015.3	1014.1	1019.2	1018.1	1016.8	1017.9	1018.5	1019.1	1017.7
	S D	5.601	9.243	8.105	6.830	6.090	4.137	3.546	4.316	5.217	6.849	9.796	7.836
	TOTAL OBS	31	28	31	30	31	30	31	31	49	31	60	62
22	MEAN	1027.9	1029.9		1008.5	1009.5	1018.1	1017.9	1017.3	1020.5	1020.0		
	S D								4.198				
	TOTAL OBS	1	1		2	3	2	1	4	20	1		
ALL HOURS	MEAN	1022.9	1021.2	1020.6	1015.5	1014.2	1019.3	1017.0	1016.8	1017.6	1015.4	1018.7	1017.5
	S D	5.328	9.381	8.431	7.182	6.334	4.255	4.128	3.781	4.916	7.182	9.691	7.730
	TOTAL OBS	187	169	185	182	190	184	311	315	342	312	359	371