

AD-A061249

USAFETAC/DS-79/066

DATA PROCESSING BRANCH
USAFETAC
Air Weather Service (MAC)

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

RHEIN-MAIN APT GERMANY/FRANKFURT WEAN# 35032
N 50 02 E 008 34 FLD ELEV 368 FT EDDF WYO# 10537

PARTS A-F

POR FROM HOURLY OBS: JAN 67-DEC 76
POR FROM DAILY OBS: SEP 46-DEC 67

AUG 18 1977

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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 Rhein-Main Apt, Frankfurt, 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)		

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

* Germany

* Rhein-Main Apt, Germany

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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1 AD		INDEXER	CATALOGER	EDITOR	2 FLD	4																		
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* Germany										Distribution														
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Atmospheres										Dew point														
Precipitation										* Meteorological data														
Snow										* Meteorological phenomena														
Depth										Humidity														
Surfaces										Atmospheric precipitation														
Wind										Atmospheric temperature														
Ceiling										Air Force facilities														
Visibility										Military facilities														
Temperature																								
Mean																								
Wet bulb temperature																								
Barometric pressure																								
Sea level																								
Climate																								
Standard deviation										24 DESCRIPTOR CLASSIFICATION														
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25 IDENTIFIERS AND/OR OPEN-ENDED TERMS										Dry-bulb temperature versus wet-bulb temperature														
* Rhein-Main Apt. (Germany)										Surface winds														
* Frankfurt (Germany)										Percentage frequency of distribution table														
* Climatological data										Extreme surface winds														
* RUSSWO (Revised Uniform Summary of Surface Weather Observations)										Cumulative percentage frequency of distribution table														
Climatology										Extreme snow depth														
Snowfall										Psychrometric summary														
Ceiling versus visibility										Atmospheric pressure														
Daily temperature										Relative humidity														
Extreme temperature										26 IDENT. & O.E. TERMS CLASSIFICATION														
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THE EXTREME VALUES COULD CONTAIN SUSPECT OR QUESTIONABLE DATA. SUCH CASES USUALLY APPEAR IN THE TABULATIONS AS A PERCENTAGE FREQUENCY OF ".0", WHICH USUALLY INDICATES ONLY ONE OCCURRENCE. THESE MAY OR MAY NOT BE COMPLETELY VALID, BUT THE USER SHOULD NOT DISREGARD THEM ENTIRELY. OBVIOUS ERRORS OR IMPOSSIBLE CONDITIONS HAVE BEEN LINED THROUGH IN BLACK INK.

U S AIR FORCE
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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

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

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

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

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 _____

FEBRUARY _____

MARCH _____

APRIL _____

MAY _____

JUNE _____

JULY _____

AUGUST _____

SEPTEMBER _____

OCTOBER _____

NOVEMBER _____

DECEMBER _____

STATION NO OR SUMMARY 35032	STATION NAME RHEIN-MAIN APT/FRANKFURT GER	LATITUDE N 50 02	LONGITUDE E 008 34	FIELD ELEV (FT) 368	CALL SIGN EDDF	WMO NUMBER 10637
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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			FIELD (FT)	HT. BARD.	
1	Rhein-Main Frankfurt Germany	AAF	Sep 46	Sep 47	N 50 02	E 008 35	361	369 Ft	24
2	Same	Same	Oct 47	Jun 48	Same	Same	Same	364	24
3	Same	AB	Jul 48	Jul 51	Same	Same	Same	376	24
4	Same	Same	Aug 51	Mar 54	Same	Same	Same	Same	24
5	Same	Same	Apr 54	Mar 62	Same	Same	Same	368	24
6	Rhein-Main Apt Frankfurt Ger	GZMO	Apr 62	Dec 76	Same	E008 34	366 Ft	Same	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Sep 46	Located 2nd Floor of Operation Bldg	Selsyn	None	40 Ft	
2	Nov 46	Same	Same	Same	57 Ft	
3	Dec 46	Located 2nd Floor of New Terminal Bldg.	Same	Same	Same	
4	Apr 47	Located on Hangar W of new terminal bldg.	Same	Same	40 Ft	
5	Jui 48	Located on the ROS	Siemens	Same	43 Ft	
6	Apr 62	N/A	Same	Fuess	30 Ft	
7	Dec 70	N/A	AN/GMQ-20	ROS 362	13 Ft	
8	Dec 76	Same	Same	Same	Same	

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A

PART A

WEATHER CONDITIONS

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

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

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

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

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

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

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

Hail - Occurrences of hail and small hail are included.

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

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

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

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

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

Continued on Reverse

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

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

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WEATHER CONDITIONS

35032 STATION RHEIN-MAIN AFB GERMANY/FRANKFURT STATION NAME 67-76 YEARS ALL 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	ALL	.0	12.4	.8	6.4	.0	19.1	16.7	.7	.1		17.5	7177
FEB			10.2	.2	5.0		14.8	10.6	.6	.1		11.3	6515
MAR		.0	11.1		2.5		13.1	5.9	1.8			7.7	7117
APR		.1	12.8		.4		13.0	3.2	.6			3.9	6833
MAY		.7	11.5		.0	.0	11.6	4.7	.7			5.4	7046
JUN		1.0	9.6				9.6	4.4	.5			4.9	6827
JUL		1.0	6.4				6.4	4.6	1.4			6.0	6913
AUG		1.2	8.4				8.4	7.2	1.3			3.5	7049
SEP		.3	8.3	.0			8.3	14.8	1.7			16.5	6818
OCT		.0	12.4				12.4	22.4	1.5		.0	23.9	7055
NOV			15.5	.1	2.5		17.3	20.1	.6			20.7	6852
DEC		.0	11.0	.7	6.5		17.3	22.3	1.6			23.9	7126
TOTALS		.4	10.8	.2	1.9	.0	12.6	11.4	1.1	.0	.0	12.5	83328

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WEATHER CONDITIONS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		12.6	.8	6.0		18.9	15.4	.1	.1		15.6	889
	03-05		12.3	1.2	7.2		20.0	18.6		.2		18.8	899
	06-08		13.3	1.2	6.7		20.9	21.2				21.2	899
	09-11		12.8	.6	7.0		20.2	21.0	1.0			22.0	904
	12-14		12.5	.8	6.6		19.2	14.7	2.6			17.3	897
	15-17		11.8	.3	6.4		18.3	13.6	1.7			15.3	889
	18-20	.1	11.7	.3	5.7	.1	17.5	14.2	.1	.1		14.5	899
	21-23		11.2	1.0	5.3		17.6	15.0		.3		15.3	901
TOTALS		.0	12.4	.8	6.4	.0	19.1	16.7	.7	.1		17.5	7177

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 USAF ETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

35022 STATION RHEIN-MAIN APT GERMANY, FRANKFURT 67-76 YEARS FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02		9.9		4.7		14.0	14.8	.5			15.3	809
	03-05		9.2	.2	5.3		14.1	14.9				14.9	811
	06-08		9.5	.4	6.7		15.9	18.4	.2	.1		18.8	810
	09-11		10.2	.1	7.4		16.6	12.2	.9	.4		13.4	814
	12-14		11.2	.6	4.3		15.5	3.9	1.1			5.0	813
	15-17		9.1	.2	5.0		14.0	3.9	1.2			5.2	815
	18-20		12.1	.2	3.1		15.0	6.2	.4	.1		6.7	819
	21-23		10.3		3.2		13.1	10.6	.6	.1		11.3	824
TOTALS			10.2	.2	5.0		14.8	10.6	.6	.1		11.3	6515

DATA PROCESSING BRANCH
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 AIR WEATHER SERVICE/HAC

WEATHER CONDITIONS

35032 STATION RHEIN-MAIN AFB GERMANY/FRANKFURT 67-76 YEARS MAR 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
MAR	00-02		10.2		2.3		12.2	9.7	.9			10.6	875
	03-05		11.8		4.8		15.7	10.0	.3			10.3	892
	06-08		11.3		5.0		15.3	12.8	1.8			14.6	897
	09-11		11.4		2.7		13.2	4.1	3.7			7.8	894
	12-14		11.2		1.6		12.6	1.6	2.3			3.9	896
	15-17	.3	10.9		1.1		11.8	.6	2.5			3.3	884
	18-20		11.1		1.0		12.1	2.7	2.1			4.8	900
	21-23		10.8		1.4		11.6	5.2	1.1			6.4	879
TOTALS		.0	11.1		2.9		13.1	5.9	1.8			7.7	7117

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WEATHER CONDITIONS

35032 STATION RHEIN-MAIN AFB GERMANY/FRANKEURT STATION NAME 67-76 YEARS APR 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	PAIL	% 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		11.1		.4		11.2	4.9				4.9	836
	03-05		13.4		.2		13.5	8.8				8.8	853
	06-08		14.3		.8		14.9	7.9	.7			8.6	865
	09-11		13.2		.5		13.5	1.5	1.8			3.3	869
	12-14		11.4		.3		11.5	.5	1.2			1.6	858
	15-17	.8	12.9		.6		13.2	.2	.6			.8	865
	18-20		13.6		.1		13.6	.5	.4			.8	847
	21-23		12.5		.1		12.5	1.3	.4			1.7	840
TOTALS		.1	12.8		.4		13.0	3.2	.6			3.8	6833

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WEATHER CONDITIONS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
MAY	00-02	.3	11.2			.1	11.3	8.3	.1			8.4	865
	03-05	.5	12.4				12.4	13.4	.1			13.5	880
	06-08	.3	12.3				12.3	9.4	1.9			11.3	887
	09-11	.2	9.4		.1		9.5	1.0	1.6			2.6	887
	12-14	.5	11.0			.1	11.1	.1	.2			.3	881
	15-17	2.3	12.2				12.2	.3	.3			.7	878
	18-20	1.0	11.8				11.8	1.6	.8			2.4	883
	21-23	.6	12.0				12.0	3.4	.3			3.7	885
TOTALS		.7	11.5		.0	.0	11.6	4.7	.7			5.4	7046

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WEATHER CONDITIONS

35032 STATION 3HEIN-HAIN APT GERMANY/FRANKFURT 7-70 YEARS JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	.5	8.9				8.9	7.6				7.6	847
	03-05	.4	8.6				8.6	14.9				14.9	844
	06-08	.1	7.1				7.1	8.6	2.0			10.6	861
	09-11	.3	8.6				8.6	1.6	1.6			3.2	865
	12-14	1.1	11.0				11.0	.2	.1			.4	846
	15-17	3.5	13.0				13.0		.2			.2	851
	18-20	1.3	10.2				10.2	.1	.2			.3	865
	21-23	.7	9.2				9.2	1.9	.1			2.0	848
TOTALS		1.0	9.6				9.6	4.6	.5			4.9	6827

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WEATHER CONDITIONS

35032 STATION RHEIN-MAIN AFB GERMANY/FRANKFURT STATION NAME 67-76 YEARS JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	00-02	1.0	6.4				6.4	6.6	.2			6.9	861
	03-05	1.3	5.7				5.7	15.8	.1			15.9	863
	06-08		7.1				7.1	10.3	2.6			13.0	872
	09-11	.2	7.4				7.4	.8	3.6			4.4	877
	12-14	.7	7.2				7.2	.1	1.4			1.5	848
	15-17	1.6	7.7				7.7	.2	1.8			2.1	869
	18-20	1.9	5.1				5.1	.7	.5			1.2	863
	21-23	1.5	4.9				4.9	2.4	.6			3.0	860
TOTALS		1.0	6.4				6.4	4.6	1.4			6.0	6913

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

35032 STATION RHEIN-MAIN AFB GERMANY/FRANKE, PT 67-76 YEARS Aug MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	00-02	1.0	8.3				8.3	9.7				9.7	864
	03-05	.5	7.7				7.7	18.7	.1			18.8	878
	06-08		9.0				9.0	18.0	1.5			19.5	882
	09-11	.3	7.0				7.0	4.3	4.0			8.3	899
	12-14	1.7	7.6				7.6	1.1	1.6			2.7	876
	15-17	2.7	7.9				7.9	.2	1.5			1.7	881
	18-20	2.3	9.2				9.2	1.1	1.1			2.3	881
	21-23	1.2	10.4				10.4	4.6	.3			5.0	886
TOTALS		1.2	8.4				8.4	7.2	1.3			8.5	7049

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 DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKEURT STATION NAME 67-76 YEARS SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02	.5	7.5				7.5	21.9				21.9	842
	03-05	.2	7.0	.1			7.2	32.0				32.0	853
	06-08		8.2				8.2	30.9	.9			31.8	858
	09-11	.1	9.8				9.8	10.4	6.1			16.4	859
	12-14	.1	5.9				5.9	2.1	3.3			5.4	849
	15-17	.6	9.4				9.4	.9	2.2			3.1	862
	18-20	.8	10.0				10.0	6.0	1.4			7.4	851
	21-23	.4	8.4				8.4	14.2				14.2	844
TOTALS		.3	8.3	.0			8.3	14.8	1.7			16.5	6818

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

35032 STATION RHEIN-MAIN ART GERMANY/FRANKFURT 7-76 YEARS OCT 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		11.9				11.9	28.0	.1			28.1	857
	03-05		14.5				14.5	30.1				30.1	876
	06-08		15.1				15.1	36.1	.1			36.2	883
	09-11		12.4				12.4	21.6	3.2			24.8	895
	12-14		10.8				10.8	9.5	4.6		.1	14.2	879
	15-17	.1	13.0				13.0	11.3	3.8		.1	15.3	890
	18-20		10.5				10.5	18.8	.1			19.0	886
	21-23	.1	11.2				11.2	23.4	.1			23.5	889
	TOTALS		.0	12.4				12.4	22.4	1.5		.0	23.9

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 NOV
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
NOV	00-02		14.2		1.7		14.9	22.3	.1			22.4	831
	03-05		16.4	.5	2.7		18.8	25.7				25.7	874
	06-08		15.7	.3	3.1		18.5	27.6				27.6	870
	09-11		17.1		3.6		19.6	20.2	.8			21.1	855
	12-14		14.7	.2	2.4		16.7	15.0	2.2			17.2	848
	15-17		13.5		1.6		14.6	15.8	1.4			17.2	850
	18-20		15.4		2.4		16.7	15.9				15.9	866
	21-23		16.7		2.1		18.3	18.4	.2			18.6	858
TOTALS			15.5	.1	2.5		17.3	20.1	.6			20.7	6852

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS DEC 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	LOW SMOG	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
DEC	00-02		11.5	1.3	5.1		16.9	23.0	.1			23.1	877
	03-05		10.4	1.2	6.2		17.2	23.0	.3			23.3	901
	06-08		10.1	.9	8.2		18.2	25.3	.6			25.8	894
	09-11		11.2	.3	7.7		18.4	24.3	1.8			26.1	898
	12-14		11.1	.1	5.9		15.6	19.3	4.6			23.9	883
	15-17	.1	11.9	.1	6.5		17.2	20.3	3.5			23.8	902
	18-20		11.4	.8	6.8		17.9	21.1	1.4			22.4	883
	21-23		10.5	.8	5.7		16.6	21.7	.8			22.5	888
TOTALS		.6	11.0	.7	6.5		17.3	22.3	1.6			23.9	7126

PART A

ATMOSPHERIC PHENOMENA

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

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

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

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

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
WEATHER CONDITIONS
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 ATMOSPHERIC PHENOMENA

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67 ALL
STATION STATION NAME YEARS MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
 FROM DAILY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		50.6	2.9	33.0		68.2	66.1	35.9			76.7	651
FEB		1.0	51.1	2.2	28.0	.7	62.4	66.9	44.0	.2		74.2	593
MAR		1.2	44.8	.3	13.4	.6	49.0	58.8	49.8			71.0	651
APR		5.1	61.1		3.3	.8	57.3	44.8	32.9		.2	57.1	630
MAY		12.1	58.1		.5	.6	53.9	43.9	24.3			51.5	651
JUN		18.3	57.1			.6	53.9	49.1	25.1			56.8	629
JUL		14.7	54.5				51.8	45.2	24.2		.2	53.3	651
AUG		13.7	58.6			.2	55.1	53.5	27.0		.	59.6	651
SEP		4.1	50.7			.2	46.7	69.7	39.7			78.0	660
OCT		1.2	50.3		.3		46.9	78.0	46.8	.1		84.9	682
NOV		.3	63.7	.3	10.2		63.5	79.1	34.5	.2		83.9	660
DEC		.3	61.1	4.0	24.0	.1	66.1	77.3	28.7			82.4	682
TOTALS		6.0	55.1	.8	9.4	.3	56.2	61.0	34.4	.0	.0	69.1	7791

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APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

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

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

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

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

Continued on Reverse Side

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

Air Force Stations:

Beginning thru 1945 at 0800LST
Jan 46-May 47 at 1230GMT
Jun 57-present at 1200GMT

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

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

2 DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 PRECIPITATION
 (FROM DAILY OBSERVATIONS)

35037 REIN-MAIN APT GERMANY/FRANKFURT 45-67
 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	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
	NONE	TRACE	1	2	3	4-4	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	27.6	28.1	6.8	12.6	7.6	12.1	3.9	1.2						44.3	644	1.60	3.86	TRACE
FEB	33.7	23.4	7.3	12.6	7.8	10.1	4.3	.5	.2					42.9	564	1.35	3.80	.10
MAR	47.4	18.5	4.2	9.2	6.8	7.6	5.2	1.1						34.0	620	1.47	3.91	.07
APR	38.1	19.2	4.5	11.2	8.2	11.7	5.3	1.8						42.7	599	1.82	4.10	.27
MAY	41.8	18.2	4.7	10.0	5.3	10.5	6.5	2.6	.5					40.0	620	2.27	4.04	.57
JUN	42.4	15.7	3.5	9.7	7.0	9.5	7.5	3.7	1.0					41.9	599	2.77	5.33	.25
JUL	43.7	16.1	3.7	7.6	7.1	11.5	6.9	2.4	1.0					40.2	620	2.49	5.10	.08
AUG	44.1	16.3	4.0	7.2	5.4	10.2	6.3	3.2	1.1	.2				39.6	649	2.95	5.81	.10
SEP	51.6	12.1	3.9	6.7	7.1	9.4	6.4	2.3	.5					36.3	659	2.00	5.37	.11
OCT	51.8	14.4	3.8	8.7	4.6	10.1	3.7	2.3	.6					39.6	681	1.88	5.32	.19
NOV	34.6	18.9	6.5	10.4	9.7	12.0	5.2	2.3	.3					46.6	657	2.11	5.20	.31
DEC	28.7	25.1	6.8	12.4	7.5	9.9	6.6	2.4	.6					46.2	677	2.14	4.87	.25
ANNUAL	40.5	18.8	5.0	9.9	7.0	10.4	5.8	2.1	.5	.0				40.7	7589	2.85		

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EXTREME VALUES
PRECIPITATION

FROM DAILY OBSERVATIONS

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67
STATION STATION NAME YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46									*.48	.67	.33*	.68	
47	*TRACE							*.10	.72	.22	.66	1.09	
48	.49*	.41	.41	.47	.83	.33	.35	.84	.17	1.34*	.25	.38	1.34
49	.14	.31	.42	.08	1.15	.40	.07	1.19	.42	.75	.16	1.06	1.19
50	.15	.40	.03	.93	1.81	.80	1.23	.57	.75	.30	.93	.58	1.81
51	.46	.31	.47	.30	.73	.71	.28	.55	.64	.41	.78	.30	.78
52	.74	.40	.66	.48	.17	1.03	1.19	.67	.78	.73	.81	.76	1.19
53	.19	.29	.06	.58	.30	.96	.74	.54	.32	1.61	.19	.29	1.61
54	.32	.28	.30	.17	.30	.72	.43	.53	.48	.35	.39	1.09	1.09
55	.62	.37	.25	.13	.77	1.41	.99	.69	.30	.54	.28	1.06	1.41
56	.39	.13	.25	.97	.46	.96	.86	.72	.47	.72	.32	.30	.97
57	.19	.72	.76	.47	1.57	.37	.45	.70	1.17	.90	.20	.27	1.57
58	.63	.39	.39	.30	.58	.81	.58	1.98	.61	.48	.44	.41	1.98
59	.37	.04	.47	.52	.28	2.14	.56	.30	.11	.80	.26	.48	2.14
60	.23	.33	.33	.26	.67	.22	1.02	1.36	.24	.70	.41	.60	1.36
61	.30	.40	.19	.60	.41	.85	1.17	.70	.50	.52	.62	.27	1.17
62	.43	1.29	.76	.68	.64	.11	.30	.30	.64	.21	.23	.57	1.29
63	.20	.20	.89	.27	.54*	.74	2.02	1.18	.70	1.09	.39	.09	2.02
64	.11	.31	.35*	.80	.70	.44	.20	.37	.44	.95	1.74	.12	1.74
65	.63	.09	.67	.39	.40	1.63	.89	.87	1.39	.09	.72	.83	1.63
66	.35	.30	.48	.69	.36	1.17	.59	3.12	.31*	1.06	.52	.89	3.12
67	.22	.51	.50	.74	.71	.35	.59	1.72	1.08	.84	.36	.48	1.72
MEAN	.341	.374	.432	.485	.669	.808	.726	.914	.578	.695	.500	.575	1.357
S. D.	.199	.261	.230	.259	.421	.504	.460	.681	.322	.376	.359	.321	.517
TOTAL OBS.	644	564	620	599	620	399	620	649	639	681	657	677	7589

NOTE * (BASED ON < FULL MONTHS)

USAF ETAC FORM 0-885 (OIA)

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XXXXXXXXXXXXXXXXXXXX
EXTREME VALUES
 XXXXXXXXXXXXXXXXXXXX
 MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67
STATION STATION NAME YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN.	FEB	MAR.	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46									* 2.51	1.25	1.19*	1.04	
47	*TRACE							* .10	.92	.37	2.24	3.04	
48	2.73*	.94	.53	1.12	2.28	1.69	2.40	2.65	.42	1.95*	.43	.60	*17.74
49	.50	.41	1.22	.27	3.51	.74	.08	3.01	1.43	1.31	.76	1.78	15.02
50	.33	1.41	.07	3.17	4.01	3.44	2.91	2.93	3.03	.86	3.74	2.49	28.39
51	2.53	1.09	2.15	1.10	2.34	3.83	1.43	2.37	1.81	.68	2.00	.83	22.15
52	2.88	1.26	2.60	1.48	.74	2.98	1.68	2.36	4.37	2.76	5.20	3.17	31.48
53	.53	.87	.19	2.07	1.15	3.39	2.48	1.04	.89	2.02	.31	1.05	15.99
54	1.37	.69	1.28	1.26	1.09	2.58	3.18	3.57	3.32	2.09	1.48	3.68	25.59
55	1.81	1.75	.92	.36	3.05	3.41	2.78	2.43	1.37	1.14	.76	3.55	23.33
56	2.37	.37	.64	3.11	1.75	4.57	3.30	4.27	1.96	2.62	1.33	1.10	27.39
57	1.63	3.80	2.40	1.18	2.78	1.67	2.70	2.51	5.37	1.53	.67	1.36	27.60
58	2.57	2.43	1.33	.78	4.04	3.40	2.25	5.68	1.66	1.91	1.26	2.59	29.90
59	1.53	.10	1.57	2.17	.37	3.75	2.10	.67	.11	1.60	.92	2.00	17.09
60	1.84	1.72	1.01	1.28	2.82	.81	3.70	5.31	.96	5.32	2.94	2.64	30.35
61	1.81	1.58	.47	2.47	3.13	3.63	5.10	2.03	1.55	2.56	3.33	1.84	29.50
62	1.94	2.51	2.23	2.10	2.68	.23	1.21	2.21	1.38	.66	1.40	2.80	21.35
63	.67	.72	3.91	.90	1.58*	2.75	2.35	5.81	2.08	2.00	2.68	.25	*25.70
64	.54	1.26	1.83*	1.99	1.09	1.04	.42	1.01	1.34	2.17	4.97	.61	*18.27
65	3.86	.46	2.25	3.67	2.42	5.33	4.34	2.19	3.54	.19	4.17	4.87	37.29
66	1.29	1.87	1.31	4.10	1.50	4.43	3.39	5.44	.90*	3.26	2.85	4.01	*34.35
67	.83	1.85	1.47	1.85	2.80	1.67	2.00	4.44	3.14	3.11	1.85	1.88	26.89
MEAN	1.598	1.355	1.469	1.822	2.207	2.767	2.490	2.934	2.003	1.880	2.113	2.145	25.269
S.D.	.999	.886	.938	1.062	1.044	1.416	1.213	1.669	1.316	1.150	1.448	1.246	6.265
TOTAL OBS.	644	564	620	599	620	599	620	649	659	681	657	677	7589

NOTE * (BASED ON < FULL MONTHS)

USAF ETAC FORM 0-88-5 (OEA)

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 SNOWFALL
 (FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

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	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	67.2	20.6	4.9	4.8	1.5	.5	.2	.2	.2					12.2	647	4.2	10.7	TRACE	
FEB	72.2	17.9	3.2	4.1	1.0	.4	.4		.2					9.9	564	3.5	16.7	.0	
MAR	87.1	9.5	1.8	.6	.5	.3	.2							3.4	620	1.1	4.2	.0	
APR	96.5	3.2	.2		.2									.3	630	.1	2.0	.0	
MAY	99.5	.5													651	TRACE	TRACE	.0	
JUN	100.0														629	.0	.0	.0	
JUL	100.0														651	.0	.0	.0	
AUG	100.0														651	.0	.0	.0	
SEP	100.0														660	.0	.0	.0	
OCT	99.7	.3													682	TRACE	TRACE	.0	
NOV	92.6	5.5	.8	.8	.3		.2							2.0	658	.6	6.7	.0	
DEC	76.2	17.4	1.8	3.0	1.2	.1	.1		.1					6.4	677	2.5	19.1	.0	
ANNUAL	90.9	6.2	1.1	1.1	.5	.1	.1	.0	.0					2.8	7720	12.0			

DATA PROCESSING BRANCH
 USAF/ETAC/DL A
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 SNOWFALL

(FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG.	SEP	OCT	NOV	DEC	ALL MONTHS
46									.0	.0	.5	*TRACE	
47	*TRACE			.0	.0	.0	.0	.0	.0	.0	.5	1.5	
48	3.3*	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	3.3
49	.6	TRACE	2.5	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.8	2.8
50	1.1	1.1	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	9.6	9.6
51	.8	.4	.4	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.8
52	8.7	3.1	3.5	2.0	.0	.0	.0	.0	.0	.0	2.2	2.0	8.7
53	1.6	3.9	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.4	3.9
54	2.4	1.2	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.4
55	2.0	3.5	2.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.7	3.5
56	2.8	2.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.8	2.8
57	.8	.1	.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	.8	.8
58	2.4	2.0	2.0	.4	.0	.0	.0	.0	.0	.0	.0	TRACE	2.4
59	2.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
60	1.6	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	1.6	1.6
61	2.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.8
62	TRACE	1.2	1.6	TRACE	.0	.0	.0	.0	.0	.0	3.5	1.2	3.5
63	4.3	2.4	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.6	4.3
64	5.9	7.9	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	3.9	7.9
65	.4	.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0*	1.2	2.8
66	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.8
67	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*	1.6	* 1.6
MEAN	2.13	1.59	.74	.11	TRACE	.00	.00	.00	.00	TRACE	.38	1.30	3.42
S. D.	2.108	1.954	1.172	.441	.000	.000	.000	.000	.000	.000	.874	2.112	2.513
TOTAL OBS.	647	564	620	630	651	629	651	651	660	682	658	677	7720

NOTE * (BASED ON < FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXX
EXTREME VALUES
XXXXXXXXXXXXXXXXXXXX
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

STATION

STATION NAME

YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46									.0	.0	.5	TRACE	
47	*TRACE			.0	.0	.0	.0	.0	.0	.0	1.3	6.0	
48	4.0*	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	* 6.6
49	.8	TRACE	2.6	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.8	6.3
50	1.1	1.4	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	19.1	21.6
51	2.1	.4	.7	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	3.2
52	10.7	6.7	3.5	2.0	.0	.0	.0	.0	.0	.0	2.2	2.0	27.1
53	4.4	7.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.4	11.9
54	8.4	3.4	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	10.8
55	3.2	16.7	4.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.7	24.6
56	8.4	6.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	2.2	16.6
57	1.2	.1	.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	1.6	2.9
58	4.4	3.2	4.2	.4	.0	.0	.0	.0	.0	.0	.0	TRACE	12.2
59	6.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0
60	5.2	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	4.4	9.6
61	6.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	6.4
62	TRACE	1.2	2.4	TRACE	.0	.0	.0	.0	.0	.0	6.7	2.8	13.1
63	10.3	10.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.8	* 21.1
64	7.9	7.9	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	8.7	* 24.5
65	1.6	4.4	3.6	.0	.0	.0	.0	.0	.0	.0*	1.6	.4	11.6
66	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	* 1.6
67	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*	1.6	3.2
MEAN	4.20	3.51	1.09	.11	TRACE	.00	.00	.00	.00	TRACE	.58	2.47	12.05
S.D.	3.434	4.428	1.619	.441	.000	.000	.000	.000	.000	.000	1.497	4.329	8.022
TOTAL OBS.	647	544	620	630	651	629	651	651	660	682	658	677	7720

NOTE * (BASED ON < FULL MONTHS)

USAF ETAC FORM 0-80-5 (OLA)

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

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	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	69.3	11.1	9.0	3.1	1.2	3.7	.5							19.5	646			
FEB	76.1	5.0	4.8	3.3	3.0	3.7	.2							18.9	565			
MAR	93.7	3.4	1.1	1.1	.3	.3								2.9	620			
APR	99.5	.5													630			
MAY	100.0														651			
JUN	100.0														629			
JUL	100.0														651			
AUG	100.0														651			
SEP	100.0														660			
OCT	100.0														682			
NOV	96.2	1.8	1.2	.2	.2	.5								2.0	658			
DEC	82.9	7.1	3.4	3.1	.4	.3	.7							10.0	679			
ANNUAL	93.1	2.4	1.8	1.2	.4	.9	.1							4.4	7722			

DATA PROCESSING BRANCH
 USAF/ETAC/DL A
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 SNOW DEPTH

(FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67
STATION STATION NAME YEARS

DAILY SNOW DEPTH IN INCHES

YEAR	JAN	FEB	MAR.	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46									0	0	0	TRACE	
47	*TRACE			0	0	0	0	0	0	0	TRACE	2	
48	2	2	0	0	0	0	0	0	0	0	0	TRACE	2
49	TRACE	TRACE	TRACE	TRACE	0	0	0	0	0	0	0	1	1
50	0	1	0	0	0	0	0	0	0	0	0	8	8
51	7	0	TRACE	0	0	0	0	0	0	0	0	TRACE	7
52	9	2	4	0	0	0	0	0	0	0	1	2	9
53	2	4	0	0	0	0	0	0	0	0	0	TRACE	4
54	7	2	0	0	0	0	0	0	0	0	0	0	7
55	3	6	1	0	0	0	0	0	0	0	0	1	6
56	4	4	0	0	0	0	0	0	0	0	0	2	4
57	2	TRACE	0	0	0	0	0	0	0	0	0	TRACE	2
58	2	2	2	TRACE	0	0	0	0	0	0	0	TRACE	2
59	3	0	0	0	0	0	0	0	0	0	0	0	3
60	4	0	0	0	0	0	0	0	0	0	0	1	4
61	5	0	0	0	0	0	0	0	0	0	0	TRACE	5
62	TRACE	1	2	0	0	0	0	0	0	0	4	2	4
63	6	7	2	0	0*	0	0	0	0	0	0	1	7
64	2	1	0	0	0	0	0	0	0	0	0	4	4
65	TRACE	1	4	0	0	0	0	0	0	0*	1	TRACE	4
66	TRACE	0	0	0	0	0	0	0	0	0	TRACE	1	1
67	* 1	0	0	0	0	0	0	0	0	0*	0*	4	* 4
MEAN	2.8	1.7	.8	TRACE	.0	.0	.0	.0	.0	.0	.3	1.3	4.4
S.D.	2.693	2.084	1.333	.000	.000	.000	.000	.000	.000	.000	.883	1.937	2.303
TOTAL OBS.	646	565	620	630	651	629	651	651	660	682	658	679	7722

NOTE * (BASED ON < FULL MONTHS)

USAF ETAC FORM 0-883 (OLA)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

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

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

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders." DATA NOT AVAILABLE

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

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

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

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

2

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS ALL MONTH

ALL WEATHER CLASS

ALL MONTH (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	1.1	.7	.2	.0							3.0	5.2
NNE	2.0	2.9	2.9	1.5	.1	.0						9.4	6.8
NE	3.9	4.8	2.5	.8	.1	.0						12.1	5.3
ENE	3.3	2.7	1.0	.1	.0							7.2	4.2
E	2.7	1.9	.7	.1								5.4	3.9
ESE	1.2	.7	.3	.0								2.2	3.7
SE	.7	.3	.1	.0								1.1	3.4
SSE	.9	.3	.1	.0								1.3	3.0
S	2.6	2.8	2.1	.6	.0	.0						8.2	5.4
SSW	1.9	3.6	4.6	2.6	.3	.0						13.0	7.6
SW	1.3	2.4	3.4	3.0	.6	.1	.0	.0				10.9	9.0
WSW	1.0	1.5	1.8	1.7	.5	.1	.0					6.7	8.9
W	.5	1.1	1.5	1.2	.3	.1	.0					4.6	8.9
WNW	.2	.8	1.1	.5	.1	.0	.0					2.7	3.0
NW	.2	.7	1.1	.5	.0	.0						2.6	7.8
NNW	.4	.6	.6	.2	.0	.0						1.9	6.7
VARBL	2.2	.5	.0									2.7	2.4
CALM												5.0	
	25.9	29.0	24.6	13.1	2.0	.3	.0	.0				100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 82790

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JAN
STATION STATION NAME YEARS MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.3	.2	.0								1.5	3.5
NNE	2.2	1.7	.8	.6								5.4	5.1
NE	4.7	4.2	1.0	.3	.1							10.2	4.3
ENE	4.2	3.9	.8	.1	.0							9.0	3.9
E	3.8	3.8	.8	.1								8.4	3.9
ESE	1.5	.9	.2									2.6	3.4
SE	.9	.2	.0	.0								1.1	2.7
SSE	1.1	.2										1.3	2.2
S	3.7	3.8	3.2	.7	.0							11.5	5.4
SSW	2.2	4.1	6.0	3.8	.5	.1						16.8	8.1
SW	1.4	2.5	3.2	3.5	1.0	.3	.0					11.9	9.6
WSW	1.1	1.1	1.6	2.0	.4	.1	.0					6.3	9.0
W	.5	.6	1.0	.8	.3	.2	.0					3.3	10.0
WNW	.2	.5	.6	.3	.1							1.7	8.3
NW	.2	.3	.5	.5	.0							1.5	8.5
NNW	.1	.1	.2	.0								.4	6.1
VARBL	1.1	.1										1.2	1.8
CALM												6.0	
	29.8	28.4	20.1	12.6	2.5	.6	.1					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 7171

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 FEB
STATION STAT. ON NAME YEARS MONTH
ALL WEATHER ALL
CLAS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	.7	.2								3.2	5.0
NNE	2.6	3.8	3.8	2.2	.1							12.5	6.9
NE	3.8	6.1	3.2	.7								13.8	5.3
ENE	3.2	3.2	1.0	.1								7.5	4.2
E	2.8	2.1	.6	.0								5.6	3.8
ESE	1.5	.7	.2	.0								2.4	3.3
SE	.8	.3	.1									1.1	2.7
SSE	.8	.2	.1	.0								1.1	3.1
S	2.8	2.4	2.0	.6	.0							7.8	5.4
SSW	2.0	3.0	4.2	3.4	.4	.0						13.1	8.2
SW	1.5	2.0	2.5	3.6	.6	.3	.0					10.4	9.5
WSW	1.2	1.5	1.4	1.2	.4	.1	.0					5.8	8.3
W	.4	.9	1.0	.9	.4	.1	.0					3.9	9.9
WNW	.4	.8	.9	.4	.1	.0						2.5	7.7
NW	.3	.6	.8	.2								1.8	7.1
NNW	.3	.5	.4	.1								1.3	5.8
VARBL	1.2	.1										1.3	1.9
CALM												4.8	
	26.8	29.3	22.6	13.8	2.2	.5	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 6492

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAR
STATION STATION AVE YEARS MONTH
ALL WEATHER
CLASS
ALL
HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.3	.7	.1								3.1	5.1
NNE	1.9	3.2	4.5	3.4	.3	.0						3.3	8.1
NE	3.3	5.8	4.0	1.9	.2							15.1	6.2
ENE	2.4	1.8	1.5	.3								6.0	4.9
E	1.9	1.6	1.1	.0								4.6	4.5
ESE	.7	.5	.4									1.6	4.2
SE	.6	.2	.2	.0								1.1	3.7
SSE	.7	.3	.1	.0								1.1	3.4
S	2.3	2.4	1.7	.6	.0							6.9	5.5
SSW	1.7	3.2	3.5	2.6	.3							11.3	7.9
SW	1.1	2.1	3.0	3.6	.9	.2	.0					10.9	9.9
WSW	.8	1.2	1.8	2.1	.9	.2	.0					7.0	10.6
W	.5	.9	1.2	1.6	.5	.1	.0					4.7	10.0
WNW	.2	.8	1.2	.8	.1		.0					3.1	8.7
NW	.1	.7	1.2	.9	.0	.0						3.1	8.8
NNW	.2	.6	.6	.5	.0							1.9	8.0
VARBL	1.4	.2	.0									1.6	2.3
CALM												3.6	
	20.6	26.9	26.6	18.4	3.3	.5	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 7353

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032
 STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
 STATION NAME

67-76
 YEARS

APR
 MONTH

ALL WEATHER
 CLASS

ALL
 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	2.1	.9	.4	.1							4.6	5.8
NNE	1.6	3.5	4.8	3.7	.3							13.9	8.2
NE	3.1	4.8	3.7	2.3	.1							14.1	6.6
ENE	2.4	1.8	.9	.4								5.6	4.8
E	2.0	1.3	.8	.1								4.2	4.2
ESE	.9	.6	.3	.1								1.9	4.2
SE	.5	.4	.1	.0								1.0	4.0
SSE	.7	.3	.1									1.1	3.2
S	1.5	1.6	1.3	.4								4.8	5.5
SSW	1.1	2.0	3.4	2.2	.1							8.8	8.0
SW	.7	1.4	3.2	3.0	.9	.2						9.3	10.2
WSW	.7	1.2	1.6	1.9	.8	.2						6.4	10.2
W	.5	1.1	1.8	1.4	.3	.0						5.1	8.9
WNW	.3	1.3	1.7	1.2	.1							4.5	8.2
NW	.3	1.0	2.0	1.1	.1	.0						4.4	8.7
NNW	.2	1.0	1.3	.7	.0							3.6	7.6
VARBL	2.0	.6	.0									2.5	2.6
CALM												4.2	
	19.9	26.1	27.9	18.7	2.8	.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 6765

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

MAY
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.4	1.0	.2								3.7	5.5
NNE	1.8	2.8	3.2	1.1	.1	.0						9.0	6.7
NE	3.8	4.7	2.6	.9	.1							12.0	5.5
ENE	2.6	2.5	1.1	.2								6.4	4.7
E	2.4	1.8	1.2	.2								5.6	4.6
ESE	1.0	.9	.5	.2								2.6	4.9
SE	.5	.3	.2									1.1	4.1
SSE	1.1	.4	.1									1.6	3.1
S	2.3	2.7	1.7	.3	.0							7.0	5.1
SSW	1.6	3.5	3.6	1.2	.1							9.9	6.7
SW	1.1	2.1	3.5	2.2	.4	.0	.0					9.3	8.5
WSW	1.0	2.0	2.2	1.5	.6	.1						7.3	8.6
W	.5	2.0	2.1	1.6	.2	.0						6.5	8.5
WNW	.2	1.1	1.7	.8	.0							3.8	8.1
NW	.2	.9	1.5	.6	.0							3.3	8.0
NNW	.3	.9	.9	.4								2.5	7.3
VARBL	3.2	1.1										4.3	2.6
CALM												4.2	
	24.7	30.9	27.2	11.3	1.5	.2	.0					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

6972

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS JUN MONTH
 ALL WEATHER CLASS ALL HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.0	1.6	.4	.0							5.3	6.0
NNE	1.8	3.8	3.8	2.7	.1							12.2	7.4
NE	3.3	4.5	3.3	.9	.0							11.9	5.7
ENE	2.6	2.4	1.4	.3								6.7	4.8
E	2.4	1.3	.7	.1								4.4	4.0
ESE	.9	.7	.1	.0								1.8	3.7
SE	.5	.4	.1									1.0	3.4
SSE	.8	.4	.1									1.3	3.4
S	2.2	2.1	1.2	.2								5.7	4.7
SSW	1.6	2.9	3.1	1.0	.0							8.7	6.6
SW	1.3	2.1	3.5	1.5	.2							8.6	7.9
WSW	.9	2.0	1.9	1.7	.5	.0						7.1	8.4
W	.5	2.0	2.4	1.4	.3	.0						6.6	8.3
WNW	.1	1.1	1.4	.5	.0							3.1	7.7
NW	.3	1.0	1.6	.8								3.7	8.0
NNW	.5	1.2	1.0	.3								3.0	7.1
VARBL	3.0	1.1										4.1	2.6
CALM												4.9	
	24.0	30.8	27.2	11.9	1.2	.0						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 6763

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUL
STATION STATION NAME YEARS MONTH

ALL WEATHER
CONDITION

ALL
MOON (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
NI	.9	1.5	.9	.1								3.3	5.1
NNE	1.7	2.8	2.5	.5								7.5	6.0
NE	3.4	4.2	2.0	.5								10.1	5.0
ENE	3.0	2.5	.7	.1								6.3	4.0
E	2.1	1.4	.6									4.1	3.9
ESE	1.0	.6	.3									1.8	3.9
SE	.5	.5	.1									1.1	3.9
SSE	.9	.4	.1									1.4	3.3
S	2.8	2.5	1.2	.2								6.7	4.6
SSW	2.1	3.3	3.3	1.2	.0	.0						10.0	6.5
SW	1.3	2.4	3.5	2.1	.3	.0						9.7	8.1
WSW	1.0	2.1	2.3	1.8	.5	.0						7.7	8.4
W	.9	2.1	2.4	1.4	.3	.1	.0					7.2	8.2
WNW	.4	1.4	2.2	.6	.1							4.6	7.6
NW	.4	1.4	2.1	.7								4.6	7.5
NNW	.8	1.3	1.4	.4								3.9	6.4
VARBL	3.1	1.6	.0									4.8	2.9
CALM												5.2	
	26.2	31.9	25.6	9.7	1.2	.2	.0					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 6841

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

AUG
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.3	.7	.1	.0							3.1	5.2
NNE	2.5	3.5	3.4	.7								10.1	5.9
NE	4.7	6.5	3.1	.3								14.6	4.9
ENE	3.6	3.0	1.3	.1								8.0	4.3
E	2.9	2.1	1.2	.2								6.3	4.4
ESE	1.3	.9	.5	.1								2.8	4.2
SE	.6	.5	.3	.0								1.4	4.5
SSE	1.1	.4	.2									1.7	3.4
S	2.2	2.4	1.5	.2	.0							6.4	5.0
SSW	1.7	3.4	3.6	1.1	.0							9.8	6.6
SW	1.2	2.4	3.7	1.9	.1							9.4	7.7
WSW	1.0	1.3	1.9	1.7	.3							6.1	8.5
W	.5	.9	1.3	1.1	.2	.0						4.0	8.5
WNW	.2	.8	1.1	.3								2.4	7.4
NW	.4	1.0	1.2	.3	.0							2.9	6.6
NNW	.4	.6	.6	.1								1.7	5.9
VARBL	3.5	1.1										4.6	2.5
CALM												4.7	
	28.8	32.1	25.6	8.1	.7	.0						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

6996

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/TAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

SEP
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	.9	.4	.1								2.5	4.3
NNE	2.3	3.3	2.5	.4	.0							8.6	5.6
NE	5.1	5.0	2.5	.3								12.8	4.8
ENE	4.5	2.9	.8	.1								8.2	3.6
E	3.2	1.5	.4									5.1	3.2
ESE	1.4	.5	.3									2.1	3.3
SE	.9	.3	.1									1.4	3.1
SSE	1.1	.5	.1	.0								1.7	3.0
S	2.8	3.7	3.2	1.2	.0							10.9	6.1
SSW	2.1	4.2	1.9	2.5	.1							13.9	7.3
SW	1.0	2.9	3.2	2.4	.4	.0						9.9	8.4
WSW	1.3	1.2	1.6	1.4	.4	.0						5.9	8.1
W	.4	.7	.8	.8	.1							2.7	8.2
WNW	.1	.5	.4	.3	.0							1.4	7.9
NW	.3	.5	.6	.1	.0							1.5	6.6
NNW	.4	.6	.3	.1								1.4	5.4
VARBL	2.9	.5										3.3	2.2
CALM												6.8	
	30.8	29.6	21.9	9.7	1.1	.0						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

6755

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS UCI MONTH
ALL CLASS ALL HOURS (L.S.T.)
 _____ CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.4	.8	.1	.0							1.9	5.9
NNE	1.6	1.7	1.5	.7	.1							5.7	6.2
NE	4.0	4.7	2.1	.6								11.5	4.9
ENE	4.1	3.4	.8	.1								8.4	3.9
E	3.2	2.4	.7									6.3	3.7
ESE	1.2	.5	.3	.0								1.9	3.7
SE	.8	.2	.1	.0								1.1	2.8
SSE	.9	.3	.1	.0								1.3	3.0
S	3.3	3.2	2.1	.5								9.1	5.1
SSW	2.7	4.4	5.5	2.4	.2							15.3	7.0
SW	2.3	3.3	3.9	3.2	.6	.0	.0	.0				13.3	8.2
WSW	1.5	1.6	1.8	1.6	.5	.1						7.0	8.1
W	.6	1.0	1.1	1.2	.3	.0						4.1	9.0
WNW	.2	.6	.9	.4	.1							2.3	8.0
NW	.2	.5	.5	.1		.0						1.4	7.0
NNW	.3	.3	.3	.1		.0						.9	6.5
VARBL	1.9	.1										2.1	1.9
CALM												6.5	
	29.4	28.7	22.3	11.2	1.7	.2	.0	.0				100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 7022

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERNANY/FRANKFURT
STATION NAME

67-76
YEAR

NOV
MONTH

ALL WEATHER
CLASS

ALL
NUMBER (L I 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	1.3	.7	.4	.3								2.7	4.8
NNE	2.0	2.1	2.1	1.0	.2							7.4	6.5
NE	3.4	3.1	1.1	.4								8.1	4.6
ENE	3.2	1.8	.6	.0								5.6	3.6
E	2.9	1.4	.5	.0								4.9	3.5
ESE	1.5	.7	.0									2.2	2.9
SE	.7	.2	.0									1.0	2.6
SSE	.9	.3	.0									1.3	2.7
S	2.9	3.5	3.3	1.4	.2							11.4	6.4
SSW	2.0	4.3	6.5	5.2	.7	.0						18.8	8.6
SW	1.3	2.6	3.8	4.9	1.5	.4	.0					14.6	10.4
WSW	1.2	1.7	2.1	1.9	.6	.1	.0					7.7	9.1
W	.5	.7	1.4	1.3	.2	.1	.0					4.3	9.5
WNW	.1	.5	.8	.3	.1							1.8	7.9
NW	.1	.4	.4	.2								1.1	6.8
NNW	.3	.4	.1	.0	.0							.8	4.8
VARBL	1.7	.1										1.8	1.8
CALM												4.7	
	26.2	24.5	23.3	17.0	3.5	.7	.1					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

6844

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

25032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 DEC
STATION MONTH
 ALL WEATHER ALL
CLASS HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.6	.4	.1								1.7	4.9
NNE	1.4	2.3	2.3	1.3	.0							7.3	6.8
NE	2.4	4.3	2.3	1.0	.0	.0						11.0	5.5
ENE	3.7	3.5	.9	.0								8.2	4.0
E	2.7	2.2	.3	.0								5.2	3.6
ESE	1.4	.8	.1									2.3	3.1
SE	.8	.2	.0									1.0	2.6
SSE	1.0	.3	.0									1.3	2.6
S	2.9	3.6	2.9	.6	.1	.0						10.1	5.6
SSW	1.9	5.2	7.7	4.7	.5	.0						19.9	8.2
SW	1.4	2.9	4.1	4.1	.8	.0	.0					13.4	9.1
WSW	.8	1.1	1.6	1.6	.7	.1						5.9	9.6
W	.3	.6	1.1	.8	.2	.1						3.1	9.4
WNW	.2	.3	.8	.4	.1	.0						1.7	8.5
NW	.1	.5	.8	.3	.0	.0						1.7	8.4
NNW	.3	.4	.3	.1	.0							1.0	5.6
VARBL	.9	.1										1.0	2.0
CALM												4.2	
	23.8	28.9	25.4	15.0	2.5	.2	.0					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 7116

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JAN
MONTH

ALL WEATHER
CLASS

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

CORRECTION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	.2	.1									1.5	2.8
NNE	2.6	2.0	1.1	.4								6.2	4.9
NE	6.3	4.2	.7	.2	.1							11.5	3.9
ENE	4.4	3.9	.7									9.0	3.9
E	3.7	3.0	.8	.1								7.6	3.8
ESE	1.6	.6										2.1	2.5
SE	1.1	.1	.1									1.3	3.0
SSE	1.1	.3										1.5	2.5
S	4.4	3.6	2.9	.6								11.5	3.0
SSW	2.4	3.9	2.2	3.7	.9							16.1	8.4
SW	1.5	2.6	3.0	2.9	1.0	.6						11.6	9.9
WSW	.8	1.6	1.7	1.5	.2							5.7	8.3
W	.4	.4	.8	1.0	.2							2.9	9.6
WNW		.3	.4	.1	.2							1.1	9.6
NW	.2	.2	.3	.1	.1							1.0	7.7
NNW		.1										.1	4.0
VARBL	.7	.1										.8	2.6
CALM												8.4	
	32.3	27.3	17.9	10.7	2.8	.6						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

889

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0000-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.1	.2									.7	5.0
NNE	2.3	1.7	1.3	.6								5.9	5.3
NE	6.1	5.9	.4	.3	.1							12.9	3.9
ENE	5.3	3.5	.7									9.5	3.4
E	3.0	2.7	.8									6.5	3.9
ESE	1.7	.4	.1									2.2	3.0
SE	1.1	.2										1.3	2.3
SSE	.7	.2										.9	2.5
S	2.6	4.6	4.3	.4								11.9	5.8
SSW	2.4	3.0	4.7	4.3	.7							15.1	8.4
SW	1.4	2.8	2.9	3.6	.7	.6						11.9	9.7
WSW	1.4	1.2	1.2	1.8	.3	.2	.1					6.3	9.0
W	.2	.6	.7	.3	.2							2.0	8.9
WNW	.2	.3	.4	.2	.2							1.4	8.9
NW	.1	.1	.2	.3								.8	9.3
NNW	.1		.2									.3	6.3
VARBL	1.1	.1										1.2	1.4
CALM												9.0	
	30.3	27.4	18.3	11.9	2.2	.8	.1					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

898

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JAN
STATION MONTH

ALL WEATHER 0600-0800
CLASS HOURS (L.R.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	.3										.8	2.9
NNE	1.7	1.7	.6	1.1								5.0	6.1
NE	5.9	3.4	.9	.6								10.8	4.0
ENE	6.5	4.1	.6		.1							11.2	3.5
E	4.1	2.9	.4									7.5	3.6
ESE	2.4	.4	.1									3.0	2.6
SE	1.0											1.0	1.6
SSE	1.2	.2										1.4	2.5
S	3.3	3.4	4.1	.6								11.5	5.7
SSW	2.3	3.6	6.9	3.9	.7	.2						17.6	8.4
SW	.7	2.9	2.6	2.6	1.3							10.0	9.7
WSW	1.2	1.0	.9	1.4	.7	.1						5.3	8.9
W	.4	.8	1.1	.6	.2	.2						3.3	9.5
WNW	.1	.3	.4	.3	.1							1.3	9.3
NW	.1	.1	.3	.6								1.1	9.6
NNW	.2											.2	2.5
VARBL	1.0	.1										1.1	1.9
CALM												7.8	
	32.7	25.4	18.9	11.6	3.1	.6						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 899

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

JAN

ALL WEATHER

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

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.1	.6									1.2	5.1
NNE	1.6	.9	.9	1.0								4.3	6.6
NE	4.0	3.7	1.9	.1	.2							9.9	4.8
ENE	3.2	4.1	.8	.1								8.2	4.2
E	3.5	4.0	1.4	.1								9.1	4.3
ESE	1.7	1.1	.2									3.0	3.6
SE	1.1	.2										1.3	2.4
SSE	1.4											1.4	1.4
S	3.8	2.4	3.3	1.2								10.7	6.1
SSW	2.3	5.6	6.9	3.3	.4	.1						18.7	7.7
SW	2.1	2.2	3.8	4.0	1.2	.3						13.6	9.2
WSW	1.3	1.0	.8	3.1	.3							6.5	9.1
W	.4	.7	1.2	.6	.3	.3	.1					3.7	10.5
WNW		.3	.4	.6	.1							1.4	10.1
NW		.4	.4	.7								1.6	9.2
NNW			.2									.2	9.0
VARBL	1.2	.1										1.3	1.8
CALM												3.8	
	28.2	26.9	22.8	14.7	2.7	.8	.1					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

903

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JAN
STATION MONTH
 ALL WEATHER 1200-1400
CLASS TIME (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	48-5	≥56	%	MEAN WIND SPEED
N	1.0	.7	.2	.2								2.1	4.5
NNE	1.5	1.2	1.3	.7								4.7	6.1
NE	2.1	4.0	1.1	.4	.2							7.9	5.4
ENE	1.7	3.5	1.0	.1								6.2	4.9
E	2.6	5.0	1.8	.2								9.6	4.9
ESE	1.7	1.9	.9									4.5	4.3
SE	.7	.4		.1								1.2	3.4
SSE	1.1	.1										1.2	1.9
S	3.1	2.3	2.7	.2								8.4	5.1
SSW	2.0	4.8	6.6	3.7	.7							17.7	8.0
SW	1.1	2.5	4.7	4.8	1.2	.2	.1					14.6	10.2
WSW	1.2	1.7	1.6	3.3	.4							8.3	7.2
W	.4	.6	1.0	.9	.6	.2						3.7	11.2
WSW	.2	.4	.2	.3	.2							1.6	9.6
W	.1	.1	.9	1.3	.2							2.7	10.9
WNW	.2	.2	.3									.6	7.4
VARBL	1.3	.1										1.5	2.1
CALM												3.6	
	21.9	29.6	24.4	16.4	3.6	.4	.1					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 896

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JAN
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.8	.4	.1	.1								2.5	3.2
NNE	2.8	2.0	.6	.3								5.7	4.6
NE	2.6	3.4	.7	.1								6.7	4.3
ENE	3.1	3.0	1.5	.3								8.0	4.7
E	5.1	5.3	1.0									11.4	3.9
ESE	.8	1.1	.3									2.2	4.3
SE	.3	.1	.1									.6	3.4
SSE	1.0											1.0	1.9
S	3.4	4.2	3.0	.7								11.2	5.5
SSW	1.9	4.8	4.7	3.7								15.2	7.6
SW	1.7	2.7	3.9	4.7	.7	.2						13.9	9.5
WSW	1.0	.7	2.0	2.2	.2	.2						6.4	9.4
W	1.1	.2	1.1	.8	.2	.3	.1					4.0	9.7
WNW	.3	.9	1.6	.2								3.0	7.0
NW	.1	.7	1.0	.4								2.2	7.7
WNW	.2	.3	.3	.2								1.1	6.9
VAR.	.9											.9	2.0
CALM												3.7	
	28.2	36.0	22.0	13.9	1.1	.8	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

889

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JAN
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	.4										1.7	2.9
NNE	3.2	1.3	.6									5.1	3.5
NE	4.7	4.5	.9	.2	.1							10.4	4.4
ENE	4.5	5.4	.7	.1								10.6	3.9
E	4.8	3.9										8.7	3.3
ESE	.7	.3										1.0	2.7
SE	.7	.2										.9	2.5
SSE	1.0	.2										1.2	2.6
S	4.5	4.5	2.5	1.0	.1							12.3	5.4
SSW	1.7	3.9	6.1	4.3	.2							16.3	8.2
SW	1.8	2.7	2.6	3.1	1.1							11.3	8.9
WSW	.9	.8	2.2	1.9	.4							6.2	9.0
W	.2	.8	1.0	.6	.2	.2						3.0	10.2
WNW	.4	.4	.9									1.8	6.1
NW	.3	.7	.4	.1								1.6	6.2
NNW	.3	.1	.1									.6	4.6
VARBL	2.0	.1										2.1	1.7
CALM												5.4	
	32.7	30.2	17.9	11.4	2.2	.2						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 897

2

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-74 JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER
 CLASS

2100-2300
 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	.3										1.3	2.5
NNE	2.3	3.0	.3	.4								6.1	4.4
NE	6.0	4.2	1.1	.2	.1							11.7	4.0
ENE	4.7	3.8	.4									8.9	3.6
E	3.2	3.8	.1									7.1	3.5
ESE	1.3	.9	.2									2.4	3.4
SE	.8	.6										1.3	3.0
SSE	1.1	.2										1.3	2.1
S	5.0	5.7	2.9	.8								14.3	5.0
SSW	2.6	3.4	7.0	3.3	.8	.2						17.3	8.3
SW	1.2	1.9	2.4	2.2	.6	.2						8.6	9.2
WSW	.9	.9	2.2	1.1	.2	.1	.1					5.6	9.0
W	.6	.8	.9	1.3	.4							4.0	9.9
WNW		.8	.6	.4								1.8	7.8
NW	.3	.3	.2	.1								1.0	5.6
NNW	.1	.2										.3	4.3
VARBL	.7											.7	1.7
CALM												6.2	
	31.8	30.8	18.4	10.0	2.1	.6	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0000-0700
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	1.4	.5									2.5	4.8
NNE	3.5	4.6	3.2	1.5								12.7	5.9
NE	5.8	8.8	2.7	.2								17.6	4.6
ENE	5.3	3.2	.6									9.2	3.4
E	2.6	.7										3.3	2.5
ESE	1.4											1.4	1.5
SE	.9	.1										1.0	2.3
SSE	.4	.1	.2									.7	4.0
S	3.2	3.2	1.7	.6								8.8	5.1
SSW	2.6	3.6	4.7	3.3	.7	.1						15.1	8.1
SW	1.6	1.5	2.0	4.6	.6	.1						10.4	9.7
WSW	.9	1.1	.9	.7	.2							3.8	7.2
W	.2	.9	.6	.5								2.2	6.8
WNW	.4	1.2	.5	.5	.1							2.7	6.8
NW	.2	.7	.2									1.2	5.0
NNW	.1	.1	.1									.4	5.3
VARBL	.9											.9	1.4
CALM												6.1	
	30.6	31.3	18.1	12.0	1.7	.2						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

808

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

FEB
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.7	.5	.1								2.1	5.2
NNE	3.1	3.0	4.5	1.5								12.0	6.5
NE	5.9	7.9	2.6	.1								16.6	4.4
ENE	5.0	3.1	.5	.1								8.7	3.4
E	2.7	1.0	.2									4.0	3.3
ESE	1.4	.2										1.6	1.9
SE	.9	.2										1.1	2.2
SSE	.6	.4	.1									1.1	3.7
S	2.6	2.5	2.5	1.0								8.5	5.6
SSW	3.1	4.2	4.0	2.6	.1							14.0	6.8
SW	1.0	1.9	1.6	3.8	.9	.5						9.7	10.7
WSW	1.2	1.2	1.4	.5	.2	.2						4.8	7.7
W		.9	.9	.2	.2							2.2	8.6
WNW	.2	.2	.2	.2	.1	.1						1.2	10.0
NW		.4	1.2	.4								2.0	8.3
NNW		.9	.1									1.0	5.1
VARBL	1.0	.1										1.1	2.6
CALM												8.3	
	29.5	28.8	20.3	10.5	1.6	.9						100.0	5.5

TOTAL NUMBER OF OBSERVATION 808

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS FEB MONTH

ALL WEATHER
CLAS

CONDITION

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

SPED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.0	.4									2.5	4.0
NNE	2.6	3.3	2.0	2.1	.1							10.1	6.6
NE	6.1	7.7	3.1	.4								17.2	4.7
ENE	4.3	4.1	1.0									9.4	3.8
E	4.4	1.5	.2									6.2	2.6
ESE	1.1	.4										1.5	2.8
SE	1.1											1.1	1.3
SSE	.6	.1										.7	2.0
S	2.8	2.5	2.7	.2								8.1	5.3
SSW	2.2	3.7	6.1	3.3	.2							15.6	7.8
SW	1.9	2.6	2.3	3.0	.2	.4						10.4	8.4
WSW	.9	.7	1.4	.6	.2							3.8	7.8
W	.7	.6	.6	.2	.5	.1	.1					3.0	9.9
WNW	.2	.5	.9	.2	.2							2.1	8.3
NW	.1	.1	.5	.2								1.0	8.8
NNW	.9	.2	.2									1.0	4.0
VARBL	.6											.6	1.6
CALM												5.6	
	31.4	29.0	21.4	10.4	1.6	.5	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 809

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS FEB MONTH
 ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	1.0	.6	.2								3.2	4.5
NNE	1.1	3.5	3.2	3.0	.4							11.1	8.2
NE	2.1	3.6	5.2	.6								11.5	6.3
ENE	2.3	4.2	1.4	.6								8.5	5.1
E	3.7	3.8	1.5	.1								9.1	4.3
ESE	1.7	.9	.4									3.0	3.6
SE	.5	.4										.9	2.6
SSE	1.2	.2										1.5	2.3
S	2.5	2.0	2.1	.9								7.4	5.9
SSW	1.5	3.7	5.2	5.4	.5							16.3	8.8
SW	1.5	2.6	3.5	2.8	.2	.4	.1					11.1	8.7
WSW	1.2	1.5	1.4	.7	.2							5.1	7.2
W	.2	.9	.9	1.7	1.0							4.7	11.5
WNW	.1	.5	.7	.4	.1							1.9	8.1
NW		.1	.5	.2								.9	9.7
NNW	.5		.4	.2								1.1	6.0
VARBL	.9											.9	1.4
CALM												2.0	
	22.5	28.8	26.8	17.0	2.5	.4	.1					160.0	6.8

TOTAL NUMBER OF OBSERVATIONS 810

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

FEB
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	1.0	1.7	.6								4.0	7.0
NNE	1.1	3.0	5.3	2.7	.2							12.4	8.2
NE	.4	4.0	4.0	1.1								9.4	7.2
ENE	1.2	2.1	1.6	.2								5.2	5.5
E	2.7	2.9	2.2									7.8	5.0
ESE	.6	1.0	.7	.1								2.5	5.9
SE	.4	.2	.2									.9	4.1
SSE	.5	.1	.1	.1								.9	4.6
S	2.1	2.1	1.4	.5	.1							6.2	5.5
SSW	1.0	2.0	4.1	3.7	.5							11.3	9.0
SW	.9	2.5	3.8	3.3	.7	.2	.1					11.6	9.9
WSW	1.0	2.1	1.6	2.7	1.4	.1	.1					9.0	10.6
W	.9	.7	1.2	1.9	.6	.4	.1					5.8	11.1
WNW	.4	.7	1.2	.7	.2							3.3	9.2
NW	.6	.4	1.4	.6								3.0	7.6
NNW		.6	.5	.5								1.6	8.0
VARBL	3.3	.2										3.6	2.2
CALM												1.5	
	17.7	25.7	31.2	19.0	3.8	.7	.4					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

807

2
DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

FEB
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.9	1.4	1.2	.2								4.7	5.2
NNE	1.6	4.0	5.2	3.1	.1							14.0	7.7
NE	1.9	3.5	2.6	1.2								9.1	6.5
ENE	1.4	2.3	1.1	.1								4.9	5.1
E	2.1	3.7	.5	.2								6.5	4.7
ESE	2.5	1.6	.4									4.4	3.6
SE	.2	1.0										1.2	4.2
SSE	1.1	.6	.1									1.9	3.1
S	2.6	2.5	2.0	.2								7.3	5.0
SSW	1.2	1.7	2.2	2.2	.2							7.7	8.4
SW	1.4	2.5	1.5	4.3	.5	.4						10.5	10.0
WSW	1.4	1.9	1.2	3.0	.7							8.1	9.6
W	.5	1.0	1.7	1.4	.7	.2						5.6	10.6
WNW	.6	1.4	1.6	.9								4.4	7.4
NW	.4	.7	1.5	.2								2.8	7.0
NNW	.2	.9	.6	.1								1.9	6.3
VARBL	1.6											1.6	1.7
CALM												3.3	
	22.5	30.5	23.5	17.3	2.3	.6						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

810

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 FFB
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1800-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.6	.2	.1								3.5	4.0
NNE	3.3	4.2	3.2	2.7	.1							13.4	6.7
NE	3.7	5.6	2.4	1.2								12.9	5.4
ENE	2.8	3.7	.9									7.3	4.2
E	2.6	2.2	.1									4.9	3.3
ESE	2.1	1.2										3.3	2.7
SE	1.2	.1	.1									1.5	2.8
SSE	.7	.2		.1								1.1	3.4
S	2.6	2.7	1.7	.4								7.3	5.2
SSW	1.8	2.8	3.7	3.3	.6							12.2	8.3
SW	2.2	1.7	1.8	3.7	.2	.2						9.9	8.8
WSW	1.8	2.3	1.8	.5	.2							6.7	6.2
W	.2	.9	1.5	1.0	.1	.4						4.0	10.0
WNW	.4	1.0	1.0									2.3	6.2
NW	.6	1.1	.4	.1								2.2	5.1
NNW	.7	1.0	.6									2.3	5.1
VARBL	.6											.6	1.4
CALM												4.4	
	28.9	32.2	19.4	13.1	1.3	.6						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 819

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 7-76 FEB
STATION STATION NAME YEARS MONTH
 ALL WEATHER CLASS 2100-2300
HOURS (LST)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.1	.4	.2								2.8	4.7
NNE	4.9	4.6	3.5	1.1								14.1	5.6
NE	4.9	7.9	2.9	.7								16.4	5.0
ENE	3.0	2.9	.7									6.7	3.9
E	1.9	.7	.1									2.8	2.8
ESE	1.6	.2										1.8	2.6
SE	.9	.1	.1									1.1	2.4
SSE	1.1	.1										1.2	2.3
S	4.0	2.1	1.7	.7	.1							8.6	5.2
SSW	2.3	2.7	4.0	3.0	.6	.1						12.8	8.2
SW	1.6	.9	3.2	3.0	1.0							9.6	9.6
WSW	1.2	1.0	1.2	1.2	.1	.1						4.9	7.9
W	.7	1.1	1.0	.2	.4							3.4	7.5
WNW	.5	.9	.7	.1	.1							2.3	6.3
NW	.1	.9	.5	.1								1.6	6.5
NNW	.4	.4	.5	.1								1.3	5.8
VARBL	.9	.1										1.0	2.0
CALM												7.4	
	31.1	27.6	20.6	10.7	2.3	.2						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 821

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

MAR
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	1.0	.7									2.2	5.3
NNE	2.7	3.6	6.2	2.1	.2							14.8	7.2
NE	6.2	9.0	4.4	.7	.2							20.5	5.2
ENE	3.7	1.8	.3									5.8	3.1
E	2.2	.9	.2									3.3	3.2
ESE	.7											.7	1.8
SE	.6	.1										.7	2.3
SSE	.8											.8	2.1
S	3.9	2.7	1.9	.6	.1							9.3	5.0
SSW	2.9	4.9	3.6	2.2	.1							13.6	6.6
SW	1.6	3.0	1.8	3.0	.2	.1						9.7	8.1
WSW	.7	.9	1.3	1.0	.7							4.6	9.2
W	.8	1.5	.7	1.1	.2							4.4	7.9
WNW	.1	.5	.2	.5								1.3	7.7
NW	.1	.3	.5	.5								1.5	7.7
NNW	.2	.6	.2	.3								1.4	7.0
VARBL	.7	.1										.8	1.9
CALM												4.7	
	28.3	31.2	22.0	11.9	1.8	.1						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 873

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS MAR MONTHS 0300-0500 HOURS (L.A.T.)
 ALL WEATHER CLASS
 CORRECTION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.0	.6									2.7	4.3
NNE	2.1	3.8	5.5	2.1	.1							13.7	7.3
NE	7.9	8.3	3.9	.8	.1							21.0	4.9
ENE	4.0	2.5	.1									6.6	3.3
E	2.0	.8										2.8	2.8
ESE	.7	.2										.9	2.1
SE	.4											.4	1.0
SSE	.9											.9	1.6
S	3.7	2.8	1.7	.3								8.5	4.7
SSW	2.4	5.2	3.6	2.2	.1							13.5	6.8
SW	2.0	1.7	2.2	3.3	.7							9.9	8.8
WSW	.2	1.2	1.5	1.3	.2							4.5	9.4
W	.4	.3	.7	1.0	.1							2.6	9.3
WNW	.2	.6	.4	.3								1.6	6.8
NW	.2	.8	.6	.3								1.9	6.9
NNW	.4	.4	.2									1.1	4.5
VARBL	1.1	.1										1.2	2.3
CALM												6.1	
	30.0	29.1	21.0	11.8	1.3							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 890

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MAR MONTH
 ALL WEATHER CLASS 0600-0800 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.5	.8									3.1	4.9
NNE	1.8	3.2	4.1	3.5	.2							12.9	8.0
NE	4.8	8.3	3.7	1.1								17.9	5.4
ENE	4.7	2.2	1.5	.1								8.5	4.0
E	2.6	.8	.7									4.0	3.6
ESE	.8	.1	.1									1.0	2.3
SE	.9	.1										1.0	2.6
SSE	.9	.2										1.1	2.4
S	2.1	2.9	2.2	.2								7.5	5.4
SSW	1.7	5.0	4.9	2.6	.8							15.0	7.9
SW	.7	2.1	2.2	2.7	1.6	.1						9.4	10.4
WSW	.7	.8	1.6	1.3	.6	.1						5.0	9.7
W	.3	.7	.7	.6	.2							2.5	8.6
WNW	.3	.4	1.5	.2								2.5	7.4
NW		.2	.8	.2								1.2	8.5
MNW	.1	.3	.2	.6								1.2	9.5
VARBL	.9											.9	1.8
CALM												5.2	
	24.2	29.0	25.0	15.1	3.4	.2						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 893

DATA PROCESSING BRANCH
 STAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35-32 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MAR MONTH
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)
 _____ CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	1.7	1.1	.2								3.9	5.7
NNE	1.4	2.7	3.3	3.9	.5							11.7	8.8
NE	.8	4.4	4.4	2.3	.3							12.2	7.8
ENE	1.1	2.3	3.9	.8								8.0	7.0
E	1.1	3.2	2.5									6.8	5.7
ESE	.2	.2	.8									1.2	5.8
SE	.5		.2	.1								.8	5.3
SSE	.3	.3										.7	3.7
S	.5	1.0	2.2	1.1								4.8	8.1
SSW	1.5	2.5	5.7	3.7	.3							13.7	8.9
SW	.9	1.9	3.1	3.3	1.1	.5						10.8	10.5
WSW	1.6	1.0	2.3	2.0	1.1	.6						8.6	10.6
W	.2	.7	1.9	2.8	.8	.2						6.7	11.7
WNW	.1	.6	.9	.2	.1							1.9	8.2
NW		.6	1.0	1.6								3.2	10.4
NNW		.2	.5	.6								1.2	10.0
VARBL	1.5	.1										1.6	2.2
CALM												2.2	
	12.5	23.5	33.7	22.7	4.3	1.2						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 882

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-76 MONTH MAR
 CLASS ALL WEATHER HOURS (L.S.T.) 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	1.9	.6	.5								3.4	6.1
NNE	.5	3.0	3.0	4.2	.7							11.3	9.7
NE	.3	3.1	4.1	3.0	.2							10.7	8.6
ENE	.3	1.1	2.4	.6								4.5	7.5
E	.3	1.3	2.6									4.5	6.8
ESE	.1	1.4	1.1									2.6	6.5
SE	.3	.3	.8	.1								1.6	6.2
SSE	.1	.1										.2	4.0
S	.9	2.2	1.1	.7	.1							5.0	6.6
SSW	.5	2.1	3.8	3.8	.7							10.7	9.8
SW	.9	1.6	2.9	4.1	1.5	.6						11.5	11.4
WSW	1.1	1.8	2.4	4.0	2.3	.7	.1					12.4	11.8
W	1.0	1.5	1.4	2.4	1.0	.1	.2					7.6	10.6
WNW	.5	.7	1.5	1.6	.2		.1					4.6	10.4
NW		.3	.9	1.6	.1							3.0	11.0
NNW	.1	.8	.7	.6	.2							2.4	9.0
VARBL	2.9	.5	.1									3.4	2.7
CALM												.5	
	10.4	23.9	29.3	27.1	7.1	1.4	.5					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 876

2
DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

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	1.0	1.6	.7	.5								3.8	5.6
NNE	1.6	1.6	4.5	4.9	.5	.1						13.2	9.4
NE	.5	2.8	2.6	2.9	.2							9.0	8.8
ENE	.2	1.6	2.1	.2								4.1	6.9
E	1.7	2.6	2.0	.1								6.4	5.0
ESE	1.0	1.1	.9									3.1	4.8
SE	.5	.7	.2									1.4	4.3
SSE	.7	.6	.2									1.5	4.2
S	.8	1.6	1.8	.6								4.8	6.6
SSW	.2	1.5	2.4	1.5	.3							6.0	9.1
SW	.3	2.0	3.3	4.8	.8	.1	.1					13.4	10.7
WSW	.8	1.4	1.7	3.7	2.1	.1	.1					9.9	12.0
W	.1	.8	1.7	2.8	1.0	.1						6.5	12.0
WNW	.1	.8	2.2	1.6	.2							4.9	10.0
NW	.2	1.1	2.3	1.7	.1	.1						5.6	9.3
NNW		.9	1.4	1.7								4.0	9.1
VARBL	1.4	.2										1.6	2.4
CALM												.7	
	11.3	23.0	32.0	27.0	5.3	.6	.2					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

871

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAR
STATION STATION NAME YEARS MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	1.3	.4									3.0	4.2
NNE	2.0	3.4	4.7	3.9	.1							14.1	8.0
NE	2.4	3.7	3.8	2.5								12.3	6.9
ENE	2.5	1.8	1.0	.3								5.6	4.7
E	3.1	2.1	.7									5.9	3.8
ESE	1.3	.4	.2									2.0	3.2
SE	1.0	.4	.1									1.6	3.0
SSE	1.2	.9	.1	.2								2.5	4.3
S	3.5	2.2	.7	.7								7.1	4.5
SSW	1.3	2.0	1.8	2.6								7.7	8.0
SW	.7	2.0	3.8	4.0	.6	.3						11.4	10.2
WSW	.4	.9	1.7	1.8	.2							5.0	9.5
W	.4	.8	1.6	1.2	.1							4.1	8.5
WNW	.2	1.6	1.6	1.6								4.9	8.1
NW	.3	1.8	2.6	.8	.1							5.6	7.8
NNW	.3	1.1	.7									2.1	5.7
VARBL	1.5	.2										1.7	2.1
CALM												3.2	
	23.5	26.8	25.4	19.6	1.1	.3						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 893

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MAR MONTH
 ALL WEATHER CLAS 2100-2300 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥56	%	MEAN WIND SPEED
N	1.3	.7	.6									2.5	3.8
NNE	3.0	4.0	4.8	2.5	.3							14.6	7.2
NE	3.8	6.6	4.8	1.7	.3							17.3	6.2
ENE	2.5	1.3	.8	.1								4.7	4.0
E	1.8	1.0	.2									3.1	3.5
ESE	1.0	.5										1.5	3.0
SE	.8	.2										1.0	2.3
SSE	.9	.3	.1									1.4	3.3
S	2.7	3.4	1.6	.6								8.3	5.2
SSW	2.9	2.6	2.2	2.2	.1							10.3	6.9
SW	1.4	2.6	2.6	3.8	.5							10.9	8.8
WSW	.5	1.5	2.1	1.4	.3							5.7	8.8
W	.3	1.4	1.0	.6	.2							3.5	7.7
WNW		1.1	1.6	.6								3.3	8.0
NW	.2	.5	1.4	.5								2.5	8.2
NNW	.3	.1	.6	.5								1.5	7.8
VARBL	1.4	.2										1.6	2.1
CALM												6.3	
	24.8	28.1	24.7	14.3	1.8							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 875

1
2
DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

APR
MONTH

ALL WEATHER
CLASS

0000-0700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.2	.2	.2								3.8	4.8
NNE	3.0	7.9	6.2	1.8	.1							19.0	6.4
NE	5.7	6.8	2.4	1.2	.1							16.3	5.1
ENE	3.5	1.2	.1									4.8	2.7
E	1.8	.7										2.5	2.3
ESE	1.2	.2										1.4	2.2
SE	.2	.1	.1									.5	4.3
SSE	1.1	.4										1.4	2.3
S	2.4	1.2	1.0	.2								4.8	4.3
SSW	1.9	3.1	3.1	1.7								9.8	7.0
SW	.7	2.3	3.2	3.0	.2							9.4	9.3
WSW	.2	1.2	1.3	1.0	.2	.1						4.1	9.1
W	.1	1.2	1.1	.4	.1							2.9	7.9
WNW	.4	1.2	1.6	.2								3.3	6.8
NW	.2	1.3	1.6	.2								3.3	7.0
NNW	.1	.7	.5									1.3	6.1
VARBL	1.8											1.8	1.8
CALM												9.4	
	25.6	31.7	22.4	9.9	.8	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

836

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

APR
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.8	1.5	.4									3.6	3.5
NNE	1.6	2.8	6.2	2.6	.2							13.5	8.0
NE	8.6	8.5	1.6	1.2								19.9	4.5
ENE	5.4	2.0										7.4	2.9
E	3.2	.6										3.8	2.2
ESE	.9	.1										1.1	2.1
SE	.4											.4	1.3
SSE	.7	.1										.8	2.0
S	3.2	2.8	.9	.2								7.2	4.3
SSW	1.4	2.0	4.9	2.0	.1							10.5	7.7
SW	.9	1.5	3.4	2.6	.5	.1						9.0	9.3
WSW	.8	1.2	.9	.4	.2							3.5	6.9
W	.7	.8	1.3	.7	.1							3.6	7.5
WNW	.2	1.5	1.2	.7								3.6	7.5
NW	.4	.4	.8	.2								1.8	6.9
NNW	.6	.6	.4									1.5	5.1
VARBL	.5											.5	1.8
CALM												8.3	
	31.3	26.4	22.1	10.6	1.2	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 851

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS MONTH APR

ALL WEATHER
 CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.6	.7		.1							2.0	6.1
NNE	1.7	3.1	5.5	5.1	.3							15.9	8.5
NE	4.1	6.7	5.1	2.2								18.1	6.1
ENE	4.1	2.0	.8	.1								7.0	3.8
E	2.3	1.2	.5									3.9	3.5
ESE	.8	.1										.9	1.9
SE													
SSE	.6	.1										.7	2.7
S	1.6	1.2	1.0	.2								4.1	4.7
SSW	.8	2.8	5.0	3.7	.1							12.4	8.4
SW	1.0	1.9	4.1	3.2	.6	.2						11.0	9.3
WSW	.9	1.0	1.2	1.6	.1							4.9	8.5
W	1.3	.9	.9	.6	.1							3.8	6.4
WNW	.2	.9	1.5	.8								3.5	7.7
NW	.6	.8	1.4	.3								3.1	7.1
NNW	.2	.7	1.0									2.0	6.5
VARBL	1.2	.1										1.3	1.6
CALM												5.5	
	22.2	24.1	28.7	18.0	1.4	.2						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 862

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-76 MONTH APR
STATION NAME YEARS MONTH
 CLASS ALL WEATHER HOURS (L.T.) 0900-1100
CLASS HOURS (L.T.)
 CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	1.8	1.2	.5	.4							5.0	6.7
NNE	.9	2.5	6.2	4.3	.4							14.3	9.3
NE	.5	2.0	4.6	3.2								10.2	9.1
ENE	1.2	1.6	1.6	.4								4.8	6.2
E	1.4	2.2	1.8	.1								5.5	5.3
ESE	.5	.5	.6									1.5	4.9
SE	.1											.1	3.0
SSE	.4	.2	.1									.7	4.5
S	.6	1.1	1.2	.4								3.2	6.4
SSW	.8	1.8	3.8	2.9	.1							9.4	8.7
SW	.7	1.5	3.4	4.5	2.1	.4						12.6	11.5
WSW	1.4	.8	1.2	2.3	1.5	.2						7.5	10.8
W	.7	1.3	2.0	1.3	.5							5.8	8.9
WNW	.2	1.3	1.8	2.0	.4							5.6	9.5
NW		.7	1.6	1.6		.1						4.1	10.1
NNW	.5	1.1	.6	.4								2.5	6.4
VARBL	5.0	1.5										6.6	2.5
CALM												.6	
	16.2	21.8	31.6	23.8	5.3	.7						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 852

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MA:

SURFACE WINDS

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

35032 RHEIN-MAIN APF GERMANY/FRANKFURT 67-76 APR
STATION STATION NAME YEARS MONTH
ALL WEATHER 1200-1400
CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	2.1	.8	1.2	.4							5.5	7.9
NNE	.5	2.6	3.5	5.3	.6							11.9	10.1
NE	.4	1.2	3.6	4.6	.4							10.1	10.0
ENE	.5	1.4	1.4	1.2								4.6	8.1
E	.4	1.0	1.8	.1								3.2	6.6
ESE	.1	.6	.4	.6								1.7	8.0
SE		1.0	.5	.1								1.6	6.5
SSE	.5	.2	.2									1.0	4.3
S	.2	.8	1.4	.7								3.2	8.0
SSW		1.2	2.9	2.8	.1							6.9	9.9
SW	.5	1.3	3.4	3.6	1.9	.2						10.9	11.8
WSW	.6	1.6	2.4	3.5	2.0	.2						10.3	11.7
W	.1	1.3	3.4	2.9	.7	.4						8.7	10.8
WNW	.6	.8	2.0	1.8								5.5	8.3
NW	.1	.5	.7	2.0	.2							4.6	10.4
NNW	.4	1.0	.8	1.1	.1							4.3	9.1
VARBL	3.5	1.9	.1									5.5	3.3
CALM												.6	
	8.9	20.6	31.3	31.4	6.5	.8						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 835

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY//FRANKFURT YEARS 67-76 MONTH APR
 CLASS ALL WEATHER HOURS (L.S.T.) 1500-1700
 CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	1.9	1.8	.4								4.7	6.4
NNE	.2	2.1	3.1	4.9	.4							10.7	10.2
NE	.1	1.5	4.2	3.4	.7							10.0	10.0
ENE	.4	1.5	2.1	.9								4.9	7.8
E	.4	1.4	2.1	.2								4.1	6.8
ESE	.9	1.9	1.1	.1								4.0	5.3
SE	.4	1.4	.2									2.0	4.9
SSE	.1	.7	.1									.9	5.0
S	.7	1.6	1.4	.7								4.5	7.2
SSW	.5	1.8	1.8	2.4								6.4	8.9
SW	.2	1.1	2.4	2.8	.8	.4						7.6	11.1
WSW	.1	1.2	3.1	3.4	1.4	.4						9.5	11.9
W	.4	1.1	2.0	3.4	.6							7.4	10.5
WNW		1.6	1.9	2.5	.2							6.2	9.8
NW		1.1	2.9	2.5	.4							6.8	10.2
NNW	.5	1.4	2.5	2.8	.1							7.3	9.2
VARBL	1.6	.7										2.4	3.2
CALM												.3	
	7.2	24.0	32.6	30.5	4.6	.7						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 850

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 APR

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

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.5	3.2	1.4	1.0								7.1	5.8
NNE	.6	3.0	2.9	3.3	.1							9.9	8.8
NE	1.3	3.7	4.6	2.0								11.6	7.4
ENE	2.0	2.9	1.1	.4								6.3	4.9
E	4.8	2.5	.4									7.6	3.3
ESE	1.5	.8	.2									2.6	3.3
SE	1.9	.2	.1									2.3	2.7
SSE	1.2	.6										1.8	3.0
S	1.5	2.6	1.8	.4								6.3	5.5
SSW	1.5	1.3	2.5	.7								6.1	6.6
SW	.5	1.0	2.7	1.9	.2							6.3	9.2
WSW	.2	1.2	1.3	2.4	.5	.4						5.9	11.1
W	.2	1.3	2.4	1.3	.1							5.3	8.6
WNW	.5	1.4	1.4	.7								4.0	7.2
NW	.4	1.5	3.8	1.3								7.0	8.0
NNW	.6	1.5	2.6	1.2	.1							6.1	8.0
VARBL	1.0	.1										1.1	1.8
CALM												2.7	
	21.3	28.9	29.7	16.5	1.1	.4						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 842

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS APR MONTH
 ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	3.3	.4									5.0	4.1
NNE	3.9	5.0	4.9	1.8	.2							15.9	6.4
NE	4.5	7.9	3.5	.8								16.7	5.4
ENE	2.5	1.9	.2	.1								4.8	3.6
E	2.0	1.0										3.0	2.6
ESE	1.2	.6										1.8	2.7
SE	.8	.2	.1									1.2	2.5
SSE	.8	.4										1.2	2.7
S	1.6	1.7	1.7									4.9	5.0
SSW	1.8	2.2	3.5	1.2	.2							8.8	7.3
SW	.6	.6	3.2	2.5	.5							7.4	9.7
WSW	1.3	1.4	1.6	1.0	.4							5.6	7.5
W	.8	1.0	1.2	.6								3.6	6.6
WNW	.4	1.4	1.9	.5								4.2	6.9
NW	.4	1.4	2.2	.2	.1							4.3	7.2
NNW	1.4	1.4	1.2									4.1	4.8
VARBL	1.2	.1										1.3	2.5
CALM												6.2	
	26.6	31.5	25.4	8.7	1.4							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 837

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAY

STATION STATION NAME YEARS MONTH

ALL WEATHER 0000-0200

CLASS HOUR (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	.3	.1								2.2	4.7
NNE	3.8	4.5	3.3	.9								12.6	5.5
NE	8.7	7.2	2.4	.3								18.7	4.4
ENE	4.4	1.9										6.3	2.9
E	2.3	.7										3.0	2.8
ESE	1.2	.2										1.4	2.0
SE	.3											.3	1.0
SSE	.8	.2										1.0	2.7
S	3.5	3.6	2.4	.1								9.7	4.6
SSW	2.6	4.8	4.2	.7								12.2	6.0
SW	1.4	1.9	2.1	1.0								6.4	6.8
WSW	1.4	1.5	1.5	.6	.1	.1						5.2	7.0
W	.3	1.4	.8	.5	.2							3.3	7.8
WNW	.6	.9	1.2	.3								3.0	6.6
NW		.2	.2	.1	.1							.7	10.5
NNW	.1	.3	.2	.2								.9	7.3
VARBL	2.9											2.9	1.8
CALM												10.1	
	35.2	30.2	18.7	5.0	.5	.1						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 860

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MAY MONTH
 ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)
 CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	1.0	.5									2.7	3.8
NNE	2.1	4.2	2.2	1.4								9.9	6.2
NE	8.2	9.9	2.2	.3								20.6	4.2
ENE	6.1	1.5	.2	.1								7.2	3.0
E	2.6	.3	.2									3.2	2.9
ESE	1.0											1.0	1.9
SE	.8											.8	1.6
SSE	1.1	.2										1.4	2.5
S	3.3	4.5	2.1	.1								10.0	4.7
SSW	1.8	4.7	3.3	.8								10.7	6.0
SW	1.9	1.6	3.6	1.0								8.1	6.5
WSW	.5	1.4	1.0	.6								3.4	7.2
W	.4	1.4	1.6	.5								4.2	6.3
WNW	.2	.5	.7	.3								1.7	7.7
NW		.9	.9	.5								2.3	8.2
NNW	.1	.7	.1	.2								1.1	6.5
VARBL	3.0	.3										3.3	1.8
CALM												7.6	
	34.9	33.1	18.6	5.8								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 873

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

MAY

STATION

STATION NAME

YEAR

MO

ALL WEATHER

0600-0800

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.5	.7	.7	.5								3.3	5.6
NNE	1.8	1.7	4.7	1.0	.2							9.4	7.2
NE	2.7	6.5	4.5	.8	.2							14.8	6.0
ENE	2.7	5.1	1.2									9.1	4.6
E	3.3	1.2	1.4									5.9	3.8
ESE	.2	.6	.1									.9	4.5
SE	.2	.1										.3	2.3
SSE	.9	.3										1.2	2.4
S	1.5	1.8	1.9	.2								5.5	5.6
SSW	1.9	3.9	5.8	.9								12.5	6.7
SW	1.9	4.2	4.0	2.5	.1							12.7	7.3
WSW	1.4	2.2	1.6	1.1	.2							6.5	7.1
W	.5	1.4	2.0	.9	.1	.1						5.0	8.3
WNW	.2	.8	1.9	.3								3.3	7.4
NW		.7	.5	.3								1.5	8.5
NNW	.2	.1	.2	.3								.9	7.9
VARBL	3.0	.5										3.4	2.0
CALM												3.7	
	24.0	31.7	30.6	9.0	.9	.1						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

880

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAY
STATION YEAR MONTH

ALL WEATHER
CLASS

CONDITION

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

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.3	.9	.2								3.3	5.6
NNE	1.3	2.0	3.9	1.6	.1							8.9	7.6
NE	.5	2.0	3.3	1.0	.5							7.2	8.3
ENE	.6	2.0	1.7	.2								4.5	6.4
E	.8	3.1	2.5	.6								7.0	6.7
ESE	.5	1.0	1.0	.2								2.8	6.3
SE		.7	.2									.9	5.5
SSE	.5	.8	.2									1.5	4.4
S	1.3	1.4	1.6	.3								4.6	5.9
SSW	1.3	2.9	3.1	2.6								9.9	7.9
SW	1.2	3.2	3.8	3.6	.5							12.2	8.8
WSW	.7	3.3	3.3	2.9	1.2	.1						11.5	9.5
W	.6	3.1	3.0	2.8	.2							9.7	8.8
WNW	.2	.2	2.1	1.5								4.0	9.9
NW		.3	1.7	.5								2.5	8.8
NNW	.1	.6	1.2	.2								2.1	7.6
VARBL	4.7	1.6										6.3	2.9
CALM												1.0	
	15.0	29.5	33.7	18.3	2.4	.1						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 869

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-70 MONTH MAY
 CLASS ALL WEATHER HOURS (L.T.) 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	.2	2.4	1.9	.2								5.0	6.8
NNE	.5	1.6	2.7	1.4		.1						6.3	8.4
NE	.3	1.0	2.2	1.2	.3							5.1	8.8
ENE	.2	1.7	1.2	.5								3.6	7.1
E	.5	2.3	2.6	.7								6.0	6.9
ESE	.6	.7	1.5	.8								3.6	7.6
SE	.1	.6	.7									1.4	6.8
SSE	.3	.3	.1									.8	4.9
S	.9	2.0	2.1	.9								5.9	6.8
SSW	.8	2.1	4.2	2.4	.2							9.8	8.5
SW	.5	2.1	4.8	3.3	1.2	.1						11.8	10.2
WSW	.6	1.6	3.1	2.1	1.2	.2						8.8	10.4
W	.6	3.9	2.8	3.1	.9							11.4	9.2
WNW	.2	1.2	1.4	1.4	.2							4.4	9.4
NW	.2	.7	2.3	1.2								4.4	8.9
NNW	.2	1.0	1.5	.7								3.5	8.2
VARBL	3.9	3.8										7.8	3.4
CALM												.3	
	10.8	29.3	35.0	20.1	4.1	.5						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 861

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MAY MONTH

ALL WEATHER
CONDITION

1500-1700
HOURS (L.G.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	.9	1.7	1.4	.3								4.4	6.1
NNE	.6	1.4	2.5	.7	.2							5.4	7.9
NE	.2	1.5	3.1	1.3	.1							6.2	8.4
ENE	.2	1.5	2.6	.5								4.8	7.4
E	.8	1.7	2.0	.1								4.6	6.3
ESE	.3	2.5	1.4	.2								4.5	6.1
SE	.3	.9	.7									2.0	5.5
SSE	1.4	.5	.5									2.3	4.1
S	1.5	2.3	1.8	.5	.1							6.2	5.9
SSW	.7	3.0	3.2	1.2								8.1	7.2
SW		.8	4.0	2.8	.7	.1						8.5	10.5
WSW	.7	2.1	3.0	2.5	1.5	.1						9.9	10.3
W	.3	2.5	3.3	3.3	.2							9.8	9.2
WNV	.1	1.7	2.8	1.3								5.9	8.3
NW	.1	1.0	3.2	1.0								5.4	8.6
NNW	.2	1.6	2.0	.8								4.6	7.9
VARBL	4.6	2.1										6.7	2.9
CALM												.8	
	13.2	28.9	37.5	16.5	2.9	.2						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 869

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAY
STATION STATION NAME YEARS MONTH
ALL WEATHER 1800-2000
CLASS HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.1	1.6	1.8									5.5	5.0
NNE	2.1	3.0	2.4	.9								8.3	6.1
NE	3.0	2.1	1.6	1.4								8.0	5.9
ENE	2.4	3.0	1.6	.3								7.3	5.0
E	5.8	3.0	.7									9.5	3.4
ESE	2.5	1.6	.2									4.3	3.4
SE	1.5	.1	.2									1.8	3.1
SSE	2.8	.3										3.2	2.3
S	2.7	2.6	.6	.1								6.0	4.3
SSW	.9	3.1	1.7	.5	.2							6.4	6.4
SW	.6	1.7	3.3	1.8	.5							7.5	9.0
WSW	1.4	2.3	2.5	1.4	.5							8.0	7.9
W	.3	1.7	1.8	1.4	.2	.1						5.6	8.8
WNW		1.5	2.2	.7								4.3	7.6
NW	.5	2.2	2.3	.8								5.7	7.0
NNW	.6	2.1	1.8	.5								4.9	7.0
VARBL	.8	.1										.9	1.9
CALM												2.8	
	29.8	31.4	24.7	9.7	1.4	.1						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 878

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-76 MONTH MAY
 CLASS ALL WEATHER HOURS (L.S.T.) 2100-2300
 CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.2	.7	.2								3.3	5.1
NNE	2.4	3.7	4.1	.9								11.1	6.1
NE	6.3	7.1	1.2	.7								15.4	4.3
ENE	3.9	3.3	.5									7.6	3.8
E	3.1	2.0										5.1	3.2
ESE	1.5	.7										2.2	2.8
SE	.9	.1										1.0	2.0
SSE	1.2	.2										1.5	2.8
S	3.5	3.1	1.2		.1							7.9	4.5
SSW	2.7	3.4	2.9	.5								9.5	5.5
SW	1.1	1.4	2.5	1.7	.1	.1	.1					7.0	8.6
WSW	1.2	1.7	1.8	.6	.1							5.4	6.6
W	.8	.7	1.4	.6								3.4	7.0
WNW	.1	1.8	1.4	.2								3.5	6.5
NW	.9	1.2	.9	.5								3.5	6.0
NNW	.6	.8	.5	.2								2.0	5.6
VARBL	2.9	.1										3.1	1.7
CALM												7.4	
	34.4	32.7	19.0	6.0	.3	.1	.1					100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 882

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKEURT 67-76 YEARS JUN MONTH
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)
 _____ CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	2.1	.5	.2								3.9	5.0
NNE	4.8	6.4	3.8	1.4	.1							16.5	5.6
NE	7.1	8.2	1.3	.2								16.8	4.0
ENE	3.8	1.7										5.4	3.0
E	1.9											1.9	1.9
ESE	.6											.6	2.0
SE	1.3	.1										1.4	1.7
SSE	.9	.2										1.2	2.4
S	4.6	3.0	.9									9.5	3.7
SSW	2.7	3.7	2.8	.2	.1							9.6	5.3
SW	1.8	1.9	2.1	.8								6.6	6.2
WSW	.9	1.4	1.2	.6								4.1	6.5
W	.5	.9	1.3	.7	.1							3.5	7.9
WNW	.2	.8	.7	.1								1.9	6.2
NW	.1	.9	1.4	.2								2.7	7.4
NNW	.6	.9	.5	.4								2.4	6.4
VARBL	1.9											1.9	1.8
CALM												11.0	
	34.9	32.3	16.5	5.0	.4							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 846

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS JUN MONTH
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)
 _____ CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	.6	.7	.6								3.2	5.9
NNE	1.7	4.8	2.6	1.8								10.8	6.8
NE	9.2	6.2	3.0	.1								18.5	4.2
ENE	7.0	2.3										9.3	2.8
E	4.8	.2										5.0	2.1
ESE	.7	.1										.8	1.9
SE	.7	.1										.8	1.6
SSE	1.1											1.1	1.6
S	3.2	1.7	.8									5.7	3.6
SSW	2.9	3.9	3.4	1.0								11.2	5.8
SW	3.0	3.3	2.7	.4								9.4	5.3
WSW	1.0	1.4	.6	.2								3.2	5.5
W	.5	1.0	.8	.6								2.9	6.9
WNW	.2	1.1	.4	.4								2.0	6.8
NW	.2	.7	1.0	.5								2.4	8.3
NNW	.2	1.1	.4									1.7	5.4
VARBL	2.5											2.5	1.9
CALM												9.6	
	40.1	28.4	16.4	5.5								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 842

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY/FRAANKFURT YEARS 67-76 MONTH JUN
 CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800
 CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	.7	1.5	.4								3.4	6.9
NNE	1.2	2.7	4.6	3.9	.2							12.5	8.6
NE	2.6	7.8	5.4	.5								16.3	5.7
ENE	2.1	4.6	2.2									8.9	5.0
E	2.3	1.6	.2									4.2	3.1
ESE	.8	.2	.1									1.2	2.6
SE	.5											.5	2.5
SSE	.6											.6	2.2
S	.7	1.1	.7	.5								2.9	6.0
SSW	1.8	3.4	5.4	.9								11.5	6.8
SW	2.0	3.3	4.8	1.1	.1							11.2	6.7
WSW	2.1	2.0	1.3	1.1	.2							6.7	6.2
W	.4	1.3	2.0	.8	.2							4.7	8.2
WNW	.1	1.4	1.9	.6								4.0	7.5
NW	.2	.6	.7	.7								2.2	8.4
NNW		.4	.5									.8	7.1
VARBL	3.3	.4										3.6	2.1
CALM												4.8	
	21.4	31.4	31.3	10.3	.3							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 856

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION MONTH YEARS

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	.9	1.4	.5								3.3	7.1
NNE	.9	2.8	4.6	4.8								13.2	8.8
NE	.9	2.2	4.0	1.2								8.4	7.3
ENE	.4	1.5	2.7	.7								5.6	7.0
E	.7	1.3	1.3	.1								3.4	5.9
ESE	.6	.9	.2									1.8	4.3
SE		.6	.1									.7	5.5
SSE	.8	.6	.1									1.5	3.8
S	1.4	1.4	1.3	.5								4.6	5.7
SSW	1.5	3.3	3.6	2.2	.1							10.8	7.6
SW	.2	2.8	4.0	2.2	.4							9.6	8.8
WSW	.6	2.4	3.2	2.8	.6							9.5	9.2
W	.9	1.6	3.8	1.3	.2							7.8	7.9
WNW		1.2	1.6	.7								3.5	8.5
W	.6	.5	1.5	.8								3.4	7.9
NNW	.4	.7	.8	.5								2.4	7.7
VARBL	6.5	2.9										9.4	2.8
CALM												1.1	
	16.9	28.1	34.4	18.4	1.2							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 850

2
 DATA PROCESSING BRANCH
 E1AC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS JUN MONTH
 ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	2.2	1.9	.1	.2							4.8	7.0
NNE	.8	2.5	5.1	2.8	.2							11.5	8.4
NE	.1	1.4	3.3	1.7	.1							6.6	8.6
ENE	.2	1.7	2.5	1.1								5.6	8.0
E	.7	2.8	2.1	.4								5.9	6.2
ESE	.4	1.0	.5	.2								2.1	6.0
SE	.2	.4	.4									1.0	5.4
SSE	.2	.7	.5									1.4	5.6
S	.4	1.2	1.9	.4								3.9	7.4
SSW	.4	2.4	2.3	2.1								7.1	8.3
SW	.2	1.2	4.5	4.0	.6							10.6	11.2
WSW	.5	2.1	2.4	3.5	1.7							10.1	10.7
W	.2	3.3	4.0	2.9	.4							10.7	9.1
WNW	.2	.7	1.6	.8								3.4	8.4
NW	.1	.7	2.7	1.1								4.6	8.8
NNW		1.0	1.7	.4								3.1	11.8
VARBL	3.7	3.4										7.1	3.3
CALM												.4	
	8.9	28.6	37.2	21.4	3.3							100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 828

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUN
STATION STATION NAME YEARS MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-56	≥56	%	MEAN WIND SPEED
N	.7	3.2	2.6	.7								7.3	6.9
NNE	.6	2.7	4.0	2.9	.1							10.3	8.5
NE	.6	1.7	3.7	1.5	.1							7.6	8.3
NNE	1.1	1.4	2.4	.5								5.4	6.8
E	1.3	1.8	1.4	.4								4.9	5.8
ESE	.6	1.0	.1	.1								1.8	4.7
SE	.1	.7	.2									1.1	5.0
SSE	.5	.5	.1									1.1	3.9
S	1.1	2.1	1.2									4.4	5.2
SSW	.2	1.2	3.1	.8								5.4	8.2
SW	.5	1.2	5.9	2.6	.5							8.7	9.7
WSW	.4	2.6	2.7	3.8	1.0	.1						10.6	10.2
W	.7	2.7	4.2	2.5	.8	.1						11.1	9.1
WNW	.2	1.4	2.7	.7	.1							5.2	8.1
NW	.2	1.2	2.1	1.8								5.4	8.9
NW	.7	2.3	1.5	.5								5.0	6.5
VARBL	2.7	1.5										4.3	3.0
CALM												.7	
	12.2	29.3	33.1	18.8	2.6	.2						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 841

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS JUN MONTH
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)
 _____ CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.8	3.7	2.7	.7								9.9	5.6
NNE	1.2	2.7	2.6	2.1								8.5	7.3
NE	1.3	2.9	3.6	1.4								9.2	7.3
ENE	2.6	3.9	1.0	.1								7.7	4.5
E	4.1	.9	.3									6.3	3.2
ESE	1.7	1.0	.1									2.9	3.4
SE	.8	.6	.1									1.5	3.5
SSE	1.3	1.2	.1									2.6	3.6
S	2.7	2.7	1.4									6.7	4.3
SSW	1.6	2.3	1.7	.5								6.1	5.5
SW	.9	1.6	3.7	.9	.3							7.5	7.9
WSW	.8	2.2	2.9	1.2	.1							7.2	7.5
W	.7	2.2	2.4	2.2	.3							7.9	8.4
WNW	.1	1.0	1.0	.3								2.6	7.4
N ^W	.2	2.0	2.3	.9								5.5	7.4
NNW	1.0	1.6	1.6	.6								4.9	6.5
VARBL	1.0	.2										1.3	2.1
CALM												2.0	
	24.8	32.8	27.7	10.9	.5							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 862

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-76 MONTH JUN
 ALL WEATHER CLASS ALL WEATHER HOURS (L.S.T.) 2100-2300
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	2.9	1.5									6.7	4.7
NNE	3.3	6.0	3.1	1.9	.1							14.4	6.0
NE	4.6	5.4	1.8	.4								12.1	4.6
ENE	3.7	1.9	.2									5.8	3.2
E	3.0	.7	.1									3.8	2.6
ESE	1.9	1.1										3.0	2.8
SE	.7	.5										1.2	3.0
SSE	.8	.1										1.0	2.5
S	3.5	4.0	1.0	.1								8.6	4.2
SSW	1.8	2.6	3.6	.5								7.5	6.1
SW	1.4	1.3	2.3	.4								5.4	6.6
WSW	1.2	1.7	1.2	.8	.1							5.0	6.5
W	.5	2.6	.7	.5								4.3	6.0
WNW		.8	1.0	.2								2.0	7.4
NW	.6	1.2	1.3	.2								3.3	6.5
NNW	.8	1.5	1.1									3.5	5.6
VARBL	2.6	.4										3.0	2.1
CALM												9.5	
	32.7	34.6	17.9	5.0	.2							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 840

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS MONTH JUL
 ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.5	.6										2.1	2.7
NNE	3.3	3.9	1.9	.5								9.5	5.1
NE	8.5	6.9	1.5	.1								17.1	3.9
ENE	4.9	2.0	.1									7.0	3.1
E	2.2	.2										2.5	2.0
ESE	.8											.8	1.7
SE	.9	.2										1.2	2.4
SSE	1.6	.1										1.8	2.1
S	4.0	2.9	.7									7.6	3.7
SSW	4.2	4.7	2.5	1.2								12.5	5.3
SW	1.5	3.2	1.4	.6								6.7	5.6
WSW	1.8	1.6	1.1	.7								5.1	5.5
W	.6	1.4	.9	.6								3.5	6.4
WNW	.2	.9	1.3	.4	.1							2.9	7.7
NW	.5	1.2	1.1	.1								2.8	6.3
NNW	.6	.5	.7									1.8	5.0
VARBL	2.1	.1										2.2	1.9
CALM												13.0	
	39.3	30.4	13.1	4.1	.1							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 855

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 STATION NAME RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-76 MONTH JUL

CLASS ALL WEATHER HOURS (L.S.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	.6	.6	.1									1.3	3.5
NNE	2.2	1.9	1.3	.7								6.0	5.4
NE	8.0	7.0	1.3	.7								17.0	4.1
ENE	7.4	1.9	.1									9.4	2.8
E	2.9	.3										3.3	2.2
ESE	1.0											1.0	1.6
SE	.2											.2	2.5
SSE	1.9											1.9	1.5
S	6.2	3.6	1.3									11.0	3.6
SSW	4.8	3.7	4.8	1.0								14.3	5.5
SW	2.4	2.2	2.4	1.6								8.7	6.4
WSW	1.0	1.7	1.2	.1								4.1	5.2
W	.6	1.7	1.3	.1								3.7	5.9
WNW	.6	.5	1.0	.5								2.6	6.9
NW	.3	.6	.8	.2								2.0	6.5
NNW	.7	.6	.7	.1								2.1	5.3
VARBL	2.0											2.0	1.4
CALM												9.5	
	42.9	26.2	14.3	5.1								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 861

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUL
STATION STATION NAME YEARS MONTH

ALL WEATHER 0600-0900
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	.6	.5	.6									1.6	4.7
NNE	1.3	1.7	2.6	.6								6.2	6.7
NE	2.9	6.4	3.9	.7								13.9	5.7
ENE	2.8	6.2	1.4	.1								10.5	4.6
E	3.1	1.7	.7									5.5	3.6
ESE	.6		.1									.7	2.2
SE	.5	.1										.6	2.0
SSE	.6	.1										.7	2.5
S	1.8	1.7	.7	.5								4.7	4.9
SSW	2.4	5.4	4.7	1.3								13.8	6.3
SW	2.0	2.6	4.7	3.1	.1							12.5	7.7
WSW	2.0	2.6	1.8	.7								7.1	5.7
W	1.0	1.7	1.0	.3								4.1	5.7
WNW	.3	1.8	1.3	.2								3.7	6.3
NW	.7	.9	1.5	.8								3.9	7.7
NNW	.2	.5	.8									1.5	6.3
VARBL	3.1	.1										3.2	1.9
CALM												5.6	
	25.8	34.3	25.9	8.3	.1							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 869

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS JUL MONTH

ALL WEATHER CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.4	1.5									3.8	5.5
NNE	.7	2.1	2.9	.6								6.3	6.7
NE	.7	2.5	2.8	.3								6.4	6.5
ENE	1.2	2.4	1.4									5.0	5.3
E	1.5	2.7	1.0									5.2	4.7
ESE	.9	1.2	1.0									3.1	3.4
SE		.5	.3									.8	3.9
SSE	.3	.3	.1									.8	4.0
S	1.4	1.2	.9	.6								4.1	3.8
SSW	.8	2.5	4.1	2.1	.1							9.6	7.9
SW	1.4	2.0	5.3	2.3	.8	.2						12.1	9.1
WSW	.7	2.9	3.7	2.2	.8							10.4	8.8
W	1.6	2.5	3.5	1.6	.1							9.4	7.5
WNW	.8	2.0	2.8	.2								5.8	6.7
NW	.1	1.2	2.3	.8								4.4	8.2
NNW	.2	.3	.8	.6								2.0	8.1
VARBL	6.0	4.2										10.3	3.1
CALM												.6	
	19.4	32.0	34.5	11.5	1.9	.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 863

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS JUL MONTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	2.2	1.3	.1								4.1	6.1
NNE	.4	2.7	2.9	.1								6.0	6.6
NE	.2	1.8	1.4	.7								4.2	7.3
ENE	.6	1.0	1.1	.1								2.8	6.0
E	.2	1.8	1.9									4.0	6.3
ESE	.5	1.0	.7									2.2	5.6
SE	.1	1.2	.2									1.6	5.3
SSE		.4	.7									1.1	6.8
S	.1	2.1	1.6	.6								4.3	7.0
SSW	.2	1.7	3.4	1.8	.1	.1						7.4	9.0
SW	.5	1.9	4.6	3.3	1.0	.1						11.3	10.0
WSW	.4	1.7	3.9	4.5	1.4	.1						11.9	10.9
W	1.3	3.3	4.8	2.9	.5							12.8	8.3
WNW	.4	2.2	3.1	1.6								7.2	8.1
NW	.1	1.4	2.1	1.4								5.1	8.2
NNW	.2	2.3	1.7	.6								4.8	7.1
VARBL	4.6	4.5	.1									9.2	3.5
CALM													
	10.4	32.9	35.6	17.7	3.0	.4						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 829

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUL

ALL WEATHER
 CLAS
 CONDITION

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

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	2.1	1.6	.2								4.6	6.3
NNE	.8	3.0	3.2	.4								7.4	6.5
NE	.2	1.4	2.3	.7								4.7	7.9
ENE	.4	2.0	1.2	.2								3.7	6.1
E	.1	1.5	1.1									2.7	5.9
ESE	.6	1.4	.5									2.5	4.6
SE	.1	1.1	.6									1.8	5.8
SSE	.6	.9	.2									1.8	4.6
S	.8	1.9	1.8	.2								4.7	6.3
SSW	.5	2.0	3.5	1.3								7.3	7.9
SW	.4	2.5	4.6	3.0	.7							11.1	9.2
WSW	.6	2.0	3.3	4.4	1.8	.1						12.2	11.0
W	.5	2.0	3.4	2.3	.7	.2						9.1	9.7
WNW	.2	1.8	3.5	1.2	.2							6.9	8.5
NW	.6	1.5	3.4	1.8								7.3	8.2
NNW	.4	1.5	2.8	1.5								6.2	8.1
VARBL	3.2	2.7										5.8	3.3
CALM												.5	
	10.4	31.2	36.8	17.3	3.4	.4						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 855

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS JUL MONTH
 ALL WEATHER CLAS 1800-2000 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.5	1.2	.2								4.8	5.4
NNE	1.3	3.5	2.9	.3								8.0	6.1
NE	1.9	2.1	1.5	.2								5.7	5.2
ENE	3.6	2.3	.5									6.4	3.6
E	3.7	2.3	.1									6.2	3.4
ESE	2.1	.9										3.0	2.8
SE	1.4	.5										1.9	2.7
SSE	1.2	.3										1.5	2.9
S	3.3	3.5	1.4									8.2	4.4
SSW	1.2	2.6	2.1	.2								6.1	5.8
SW	.3	2.6	3.1	2.0								8.0	8.1
WSW	.8	2.0	2.0	1.4								6.2	7.8
W	.9	2.6	2.9	2.2	.9	.2	.1					9.9	9.5
WNW	.1	.9	2.9	.8								4.8	8.1
NW	.6	3.0	3.0	.6								7.2	6.8
NNW	1.9	3.0	2.7	.3								7.9	5.9
VARBL	.9	.7										1.6	3.1
CALM												2.6	
	26.2	35.2	26.3	8.4	.9	.2	.1					100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 858

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUL
STATION YEARS MONTH

ALL WEATHER
CLASS

2100-2300
MOVES (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	1.5	2.4	.7									4.6	4.1
NNE	3.6	3.8	2.2	1.2								10.8	5.4
NE	5.1	5.2	.9	.2								11.4	4.2
ENE	3.2	1.8	.1									5.1	3.1
E	2.8	.8										3.6	2.5
ESE	1.1	.2										1.3	2.5
SE	.7	.5										1.2	2.7
SSE	.7	.7										1.4	3.1
S	4.7	3.3	.9	.1								9.0	3.9
SSW	2.9	3.4	1.5	1.1								8.9	5.5
SW	1.8	2.6	2.0	.7								7.1	6.1
WSW	.8	2.1	1.4	.4								4.7	6.1
W	.4	1.8	1.6	.8	.4	.1						5.1	8.5
WNW	.2	.9	1.5	.4	.1							3.2	7.7
NW	.4	1.2	2.4	.2								4.1	7.1
NNW	1.9	2.1	1.2	.1								5.3	4.8
VARBL	3.3	.5										3.8	2.1
CALM												9.5	
	35.0	33.1	16.6	5.2	.5	.1						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 851

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 57-76 AUG
STATION STATION NAME YEARS MONTH

ALL WEATHER
CLASS

0000-0200
HOWR (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	.9	.2								2.4	3.7
NNE	3.9	5.7	2.8	.3							12.8	5.0
NE	10.1	10.8	2.1	.1							23.1	4.0
ENE	5.6	.9									6.5	2.5
E	2.9	.3									3.3	2.1
ESE	1.6	.1									1.7	1.9
SE	.6	.1									.7	2.7
SSE	1.4	.1									1.5	2.1
S	4.2	2.8	.6	.2							7.8	3.8
SSW	3.3	5.0	3.3	.3							11.3	5.4
SW	2.3	3.1	2.8	.1							8.4	5.4
WSW	1.0	.6	.7								2.3	4.7
W	.6	.3	.3	.1							1.4	5.2
WNW	.6	.9	.7	.1							2.3	5.8
NW	.5	1.0	1.3	.2							3.0	6.5
NNW	.3	.2	.1								.7	4.2
VARBL	1.7										1.7	1.9
CALM											8.5	
	41.9	33.1	16.9	1.6							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 861

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0300-0500
PERIOD (L.R.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	.5	.1									1.4	3.5
NNE	3.0	3.5	2.5	.1								9.1	4.9
NE	11.3	8.4	1.5	.1								21.3	3.7
ENE	8.4	2.4										10.8	2.6
E	3.7	.6										4.2	2.1
ESE	1.8	.1										1.9	1.7
SE	1.0	.2										1.3	2.0
SSE	1.6	.3										1.9	2.4
S	3.7	2.4	.9									7.0	3.9
SSW	3.0	5.0	4.7	.1								12.8	5.6
SW	.9	2.2	2.4	.7								6.2	6.4
WSW	1.0	.8	.8									2.6	4.4
W	.5	.6	.6	.1								1.7	5.3
WNW	.2	.8	.8									1.8	6.1
NW	.5	.5	1.5									2.4	6.5
NNW	.3	.2	.1									.7	3.8
VARBL	3.0	.2										3.2	1.6
CALM												9.6	
	44.6	28.8	15.9	1.1								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

876

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

AUG
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	.5	.1									1.9	2.8
NNE	2.2	2.8	3.6	.3								9.0	5.9
NE	4.0	10.4	6.2	.1								20.6	5.0
ENE	5.1	4.9	1.9									12.0	4.2
E	3.6	2.4	.3									6.4	3.1
ESE	1.4	.3										1.7	2.3
SE	.8											.8	2.1
SSE	.8	.1										.9	1.9
S	1.4	1.4	1.4	.1								4.2	5.1
SSW	2.1	5.0	5.0	.8								12.9	6.2
SW	2.2	3.1	5.9	1.6								12.8	6.9
WSW	.9	.9	1.3	.5	.1							3.6	6.6
W	.5	.8	.5	.6								2.3	7.1
WNW	.1	.5	1.0	.1								1.7	7.5
NW	.8	.6	.3	.2								1.9	4.6
NNW	.3	.1	.1	.1								.7	5.5
VARBL	1.6	.1										1.7	1.9
CALM												4.9	
	29.0	33.8	27.7	4.6	.1							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

878

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 AUG
STATION STATION NAME YEARS MONTH
ALL WEATHER 0900-1100
CLASS HOURS (L.F.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	1.5	.6									2.3	5.4
NNE	1.8	3.2	3.9	1.1								10.0	6.7
NE	1.0	3.7	4.2	.1								9.0	6.2
ENE	1.5	4.5	2.9	.3								9.2	5.8
E	1.5	3.4	3.0	.6								8.4	6.2
ESE	.8	1.6	1.4	.1								3.8	5.6
SE	.6	.5	.5									1.5	5.2
SSE	.8	.1	.1									1.0	3.0
S	1.2	1.8	1.7	.5								5.2	6.1
SSW	1.1	3.2	4.5	1.6								10.4	7.5
SW	1.5	3.9	3.7	3.0	.3							12.5	7.8
WSW	.7	1.0	3.6	2.8	.5							8.6	9.6
W	.7	.9	1.4	1.6								4.5	8.4
WNW		.8	1.0	.2								2.0	7.4
NW		.2	1.2	.3								1.8	9.0
NNW	.1	.3	.1									.6	5.0
VARBL	6.2	1.9										8.1	2.5
CALM												1.1	
	19.6	32.4	33.8	12.3	.8							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 888

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1200-1400

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	1.7	1.4	.2								3.9	6.5
NNE	.6	1.9	4.3	1.2								7.9	7.8
NE	.8	3.5	2.3	.9								7.5	6.7
ENE	.2	1.9	1.9	.2								4.2	7.1
E	.8	3.4	3.1	.2								7.5	6.5
ESE	.1	1.6	2.0	.3								4.1	6.9
SE	.3	.9	1.0	.2								2.5	6.1
SSE	.5	1.2	1.0									2.7	5.7
S	.7	2.4	2.1	.2	.1							5.6	6.4
SSW	.1	1.7	1.9	2.4								6.1	9.1
SW	.6	2.2	3.6	3.8	.8							11.0	9.9
WSW	1.2	1.9	3.5	4.5	.8							11.8	9.7
W	.5	1.4	2.4	2.8	.6	.1						7.8	10.1
WNW	.1	.8	.6	.5								3.0	8.1
NW	.1	.5	.6	.5								1.9	8.1
NNW	.1	.3	.8	.3								1.6	8.1
VARBL	6.4	3.9										10.3	3.1
CALM												.6	
	13.7	31.2	33.7	18.4	2.3	.1						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 863

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS AUG MONTH
ALL WEATHER CLAS 1500-1700 HOURS (LST)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	1.9	1.9	.2	.1							4.5	7.2
NNE	.7	1.8	2.4	1.7								7.7	7.9
NE	.5	2.1	3.0	.5								6.0	7.1
ENE	1.8	3.0	2.3	.2								7.3	5.7
E	.9	2.7	2.5	.5								6.6	6.6
ESE	1.1	1.8	.8	.1								3.9	5.1
SE	.3	1.8	.8	.1								3.1	5.7
SSE	1.0	1.0	.5									2.5	4.3
S	.7	2.9	2.2	.3								6.1	6.3
SSW	.7	1.8	2.0	1.6	.1							6.9	8.3
SW	.3	1.1	3.0	3.8								8.2	9.8
WSW	1.0	1.4	2.5	4.6	.9							10.4	10.5
W	.8	1.7	2.4	2.3	.6							7.8	9.1
WNW	.2	.6	2.7	.9								3.8	8.8
NW	.8	1.0	2.3	.6								4.7	7.2
NNW	.5	.9	1.4	.2								3.0	6.8
VARBL	4.5	2.2										6.6	2.9
CALM												.9	
	16.2	29.9	33.7	17.6	1.7							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 873

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS AUG MONTH 1800-2000 HOURS (L.G.T.)
 ALL WEATHER CLASS
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	2.3	1.0	.1								4.6	5.0
NNE	2.7	3.8	3.3	.6								10.4	5.7
NE	2.2	4.2	3.2	.3								9.9	5.7
ENE	3.1	3.8	1.0									7.9	4.1
E	6.7	3.1	1.3									10.2	3.1
ESE	2.4	1.1	.1									3.7	3.2
SE	.9	.1	.1									1.1	3.1
SSE	1.1	.6	.2									1.9	3.4
S	2.4	2.7	1.8	.1								7.1	5.0
SSW	.8	1.7	2.7	1.0								6.3	7.3
SW	1.0	1.8	4.2	1.5								8.6	7.6
WSW	.6	1.6	1.8	1.3	.1							5.4	8.0
W	.6	.9	2.3	1.4	.1							5.3	8.1
WNW	.2	1.5	.7	.5								2.9	7.2
NW	.3	2.4	1.1	.5	.1							4.5	7.1
NNW	1.1	1.8	1.3	.2								4.5	5.3
VARBL	2.3	.1										2.4	1.7
CALM												3.7	
	29.7	33.6	25.3	7.4	.3							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 876

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-HAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

AUG
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.5	1.4	.6	.1								3.5	4.6
NNE	4.9	5.7	3.3									13.8	4.7
NE	7.7	9.3	2.0									19.1	4.1
ENE	3.2	3.0	.2									6.4	3.6
E	2.8	1.0	.1									4.0	2.6
ESE	1.5	.1										1.6	2.2
SE	.2	.1										.3	2.3
SSE	1.4											1.4	1.3
S	3.5	3.1	1.7									8.3	4.2
SSW	2.6	3.5	4.4	.7								11.2	6.0
SW	1.1	2.0	4.0	.7								7.8	6.6
WSW	1.2	1.9	.9	.1	.1							4.3	5.5
W	.3	.2	.2	.3								1.1	7.0
WNW	.1	.6	.6	.1								1.4	7.1
NW	.3	1.6	.8	.2								3.0	6.0
NNW	.6	.5	.7									1.7	5.8
VARBL	2.6											2.6	2.1
CALM												8.5	
	35.6	33.9	19.5	2.3	.1							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 881

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

SEP
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	.6	.1									1.7	3.5
NNE	3.5	3.6	1.4	.4								8.9	4.6
NE	9.8	7.3	1.7									18.8	3.7
ENE	6.8	1.9										8.7	2.6
E	3.6	.2										3.8	2.2
ESE	1.1	.1										1.2	1.7
SE	1.1											1.1	1.4
SSE	.8	.4										1.2	2.4
S	3.0	4.6	3.0	.2								10.8	5.2
SSW	3.5	5.5	4.4	2.8	.1							16.3	6.6
SW	1.1	1.2	1.8	1.8								5.9	8.0
WSW	1.3	.6	.7									2.6	4.6
W	1.0	.7	.5	.7								2.9	6.5
WNW	.1	.1	.1									.4	5.0
NW	.2	.2	.2									.7	5.3
NNW	.4	.5	.1									1.0	3.9
VARBL	1.2											1.2	1.5
CALM												12.9	
	39.4	27.5	14.1	5.9	.1							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 835

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS SEP MONTH
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)
 _____ CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.1										.5	2.5
NNE	1.9	3.4	1.4									6.7	5.0
NE	9.9	6.0	1.4									17.3	3.6
ENE	10.2	2.5	.2									12.9	2.6
E	5.1	.2										5.3	1.8
ESE	1.3											1.3	1.5
SE	.7	.1										.8	2.0
SSE	1.2	.2										1.4	2.3
S	4.0	5.1	2.4	.6								12.0	5.0
SSW	2.9	4.7	4.0	2.9								14.6	6.7
SW	1.2	2.0	2.6	1.1	.2							7.1	7.2
WSW	1.3	.7	.7	.5								3.2	5.4
W	.2	.5	.5									1.2	5.8
WNW	.1	.2	.2	.1								.7	7.2
NW	.1	.2	.1									.5	4.8
NNW	.5											.5	1.5
VARBL	2.0											2.0	1.8
CALM												12.2	
	42.9	26.0	13.5	5.2	.2							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 851

SURFACE WINDS

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS SEP MONTH
ALL WEATHER CLASS 0600-0800 HOURS (L.F.T.)
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-15	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.6	.5	.1									2.2	2.8
NNE	1.3	2.2	2.7	.1								6.3	5.9
NE	4.8	9.4	3.3	.2								17.8	5.4
ENE	6.1	3.9	.7									10.6	3.3
E	4.8	1.5										6.3	2.5
ESE	1.8											1.8	1.7
SE	.9	.1										1.1	1.7
SSE	.7	.5										1.2	2.3
S	1.9	2.7	2.6	1.3								8.4	6.4
SSW	1.6	4.8	5.8	2.3	.1							14.7	7.2
SW	1.4	5.8	2.5	2.2	.1							12.0	6.9
WSW	1.3	2.3	.5	.6	.1	.1						4.9	6.0
W	.2	.6		.2	.1							1.2	7.5
WNW			.5	.2								.7	9.8
NW		.1	.2	.1								.5	8.0
NNW		.1	.1									.2	5.5
VARBL	1.8											1.8	1.3
CALM												8.3	
	30.2	34.5	18.9	7.4	.5	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 855

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
-STATION NAME

67-76
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0900-1100
HOURL (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	.6	.5									1.4	5.4
NNE	1.7	3.9	3.2	.6	.1							9.5	6.4
NE	1.4	3.2	2.9	.8								8.3	6.1
ENE	1.5	4.9	2.0	.2								8.7	5.6
E	1.8	2.7	1.3									5.8	4.8
ESE	1.0	.8										1.8	3.5
SE	.8	.2	.2									1.3	3.8
SSE	.4	.4										.7	4.0
S	1.8	2.7	3.6	1.8								9.9	7.1
SSW	2.7	4.9	4.5	4.2								16.3	7.6
SW	1.0	5.1	4.5	4.8	1.1	.1						16.5	9.0
WSW	1.3	1.8	1.3	1.5	.2							6.2	8.0
W	.6	.8	.5	.8	.2							3.0	8.4
WNW	.4	.2	.4	.2	.1							1.3	8.2
NW	.1	.4	.2	.2								1.0	7.1
NNW	.2	.1	.1	.2								.7	7.5
VARBL	4.6	1.1										5.7	2.3
CALM												2.0	
	21.6	33.8	25.2	15.4	1.8	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 842

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

SEP

ALL WEATHER

1200-1400

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	.8	.7	.1								2.5	5.5
NNE	.7	2.5	3.5	1.1								7.8	7.3
NE	.7	2.0	3.7	1.0								7.5	7.5
ENE	.1	2.0	2.0									4.2	6.2
E	.8	2.0	1.1									4.0	5.2
ESE	.4	.6	1.6									2.5	6.7
SE	.5	.6	.4									1.4	4.8
SSE	.6	.8	.1	.1								1.7	4.0
S	1.3	2.6	2.4	3.1	.2							9.7	8.2
SSW	2.0	3.8	6.5	2.9	.6							15.9	8.0
SW	.5	3.7	4.4	4.0	1.6							14.2	9.9
WSW	1.4	1.6	2.9	3.5	1.4							10.8	10.1
W	.1	1.4	1.3	1.4	.2							4.6	8.9
WNW		.5	.7	.6								1.8	9.1
NW	.4	.4	.5	.4								1.6	7.4
NNW	.5	.8	.4	.1								1.8	5.7
VARBL	5.5	1.8										7.3	2.9
CALM												.7	
	16.5	28.2	32.2	18.3	4.1							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

832

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 SEP
STATION STATION NAME YEARS MONTH
ALL WEATHER 1500-1700
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	1.4	1.8	1.2	.2								4.5	5.4
NNE	.8	2.5	2.5	.8								6.6	6.7
NE	1.2	1.9	4.2	.2								7.5	6.8
ENE	1.6	3.2	1.2	.2								6.2	5.1
E	2.3	2.9	.5									5.7	3.8
ESE	1.9	1.6	.6									4.1	4.1
SE	1.2	.4	.4									1.9	3.8
SSE	2.0	.6	.2									2.8	2.9
S	2.6	3.6	4.2	1.6								12.1	6.4
SSW	1.3	3.2	4.2	2.1	.2							11.0	7.9
SW	.7	2.5	4.0	2.5	.4							10.0	8.7
WSW	2.3	1.1	2.9	3.8	.7							10.8	9.1
W	.2	.2	1.9	1.9								4.2	10.1
WNW	.1	.7	.7	1.1								2.6	8.7
NW	.1	1.1	1.5	.5								3.2	7.6
NNW	.6	.8	.9	.1								2.5	6.0
VARBL	3.0	.2										3.3	2.2
CALM												1.1	
	23.4	28.1	31.1	15.0	1.3							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 853

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

SEP
MONTH

ALL WEATHER
CLASS

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

CONDITIONS

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	1.5	.7	.1								4.3	4.2
NNE	3.9	4.4	2.6	.4								11.2	4.9
NE	4.1	3.4	1.3	.2								9.1	4.4
ENE	3.4	2.2										5.7	3.1
E	4.1	2.4										6.5	3.0
ESE	2.5	.2										2.7	2.0
SE	2.0	.6										2.6	2.7
SSE	1.8	.9	.1	.1								3.0	3.6
S	3.5	3.4	4.6	.2								11.8	5.5
SSW	1.1	3.0	4.0	1.4								9.5	7.2
SW	.8	1.8	3.5	1.2	.1	.1						7.6	8.0
WSW	.2	1.5	2.2	.9	.1							5.1	8.1
W	.7	.9	.9	.5								3.1	6.7
WNW	.1	1.1	.4	.4								1.9	7.1
NW	.5	.9	1.8		.1							3.3	6.4
NNW	.7	1.9	.5	.2								3.3	5.3
VARBL	2.4	.4										2.7	2.1
CALM												6.7	
	33.8	30.6	22.7	5.7	.4	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 646

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS SEP MONTH

ALL WEATHER CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.1										2.7	3.0
NNE	5.0	3.8	2.9	.1								11.8	4.6
NE	8.6	6.5	1.3									16.4	3.7
ENE	5.9	2.3										8.2	2.8
E	3.1	.2										3.3	2.1
ESE	1.2	.2										1.4	2.1
SE	.4	.4										.7	3.7
SSE	1.3	.1										1.4	2.0
S	3.9	4.5	3.1	.7								12.2	5.2
SSW	1.5	3.9	5.6	1.8	.1							13.0	7.1
SW	1.3	1.2	1.9	1.7								6.1	7.6
WSW	1.1	.4	1.3	.5	.2							3.4	7.5
W	.2	.6	.5	.5	.1							1.9	8.1
WNW	.1	1.1	.5									1.7	6.1
NW	.6	.5	.4									1.4	4.5
NNW	.1	.6	.4									1.1	5.4
VARBL	2.4	.2										2.6	1.9
CALM												10.6	
	38.4	27.6	17.7	5.2	.5							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 841

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS UIC ROUTE
 ALL WEATHER CLEAR 0000-0200 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	.2	.5									1.2	4.9
NNE	1.5	2.5	1.5	.6								6.1	5.2
NE	7.1	6.9	1.2	.2								15.4	3.8
ENE	6.1	4.8	.1									11.0	3.3
E	3.6	1.2	.1									4.9	2.5
ESE	.2	.4										.6	4.2
SE	.8											.8	1.4
SSE	1.3	.2										1.5	1.8
S	3.7	3.2	2.6	.9								10.4	5.3
SSW	3.7	4.6	5.6	2.3								16.2	6.6
SW	2.0	2.2	4.0	2.5	.4							11.0	7.9
WSW	1.1	1.2	.7	.5	.1							3.5	6.2
W	.4	1.5	.6									2.5	5.3
WNW		.7	.4	.5								1.5	8.7
W	.2	.1	.4									.7	5.5
NNW	.2	.1	.1	.1								.6	6.0
VARBL	2.2											2.2	1.8
CALM												9.9	
	34.7	29.7	17.6	7.6	.5							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 856

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

OCT
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-35	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.3	.7									1.6	5.5
NNE	2.9	2.3	.8	.2								6.2	4.2
NE	7.3	6.7	1.6									15.7	3.8
ENE	6.2	4.2	.2									10.6	3.3
E	3.2	1.7	.1									5.0	2.9
ESE	.9											.9	1.8
SE	.5											.5	1.5
SSE	.5	.3	.1	.1								1.0	4.7
S	3.0	3.4	2.3	1.0								9.7	5.7
SSW	3.4	4.3	5.3	2.6	.2							15.9	7.0
SW	2.3	3.0	2.4	2.5	.2							10.4	7.4
WSW	1.7	1.1	1.0	.9	.2							5.0	6.8
W	.5	.9	.9	.8								3.1	7.7
WNW	.2	.6	.2	.1								1.1	5.7
WV	.1	.7	.2									1.0	5.1
NNW	.2	.1		.2								.6	8.0
VARBL	1.9	.1										2.1	1.8
CALM												9.6	
	35.3	29.9	15.9	8.6	.7							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 875

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS OCT MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.1	.9									1.8	5.3
NNE	2.3	.9	1.0	.7								4.9	5.4
NE	4.8	5.7	1.9	.3								12.7	4.6
ENE	3.9	4.2	.9									11.0	3.6
E	3.5	2.6	.1									6.3	3.3
ESE	1.8	.3										2.2	2.5
SE	1.4	.2	.2									1.8	2.9
SSE	.5	.1	.1									.7	3.3
S	3.4	3.1	2.6	.6								9.7	5.2
SSW	1.8	5.2	5.1	3.6	.6							16.4	7.9
SW	1.6	3.0	4.8	2.4	.8							12.5	8.3
WSW	1.8	1.7	.9	1.3	.1							5.8	6.6
W	.8	.7	.8	.5								2.7	6.8
WNW	.2	.3	.3	.2								1.1	7.1
NW	.1	.5	.2									.8	5.7
NNW	.2	.1	.2	.2								.8	7.9
VARBL	2.2											2.2	1.5
CALM												6.6	
	33.1	28.8	20.3	9.8	1.5							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 879

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

OCT
MONTH

ALL WEATHER
CLASS

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

CORRECTION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.2	1.0		.1							1.9	6.8
NNE	.8	1.5	1.8	.8	.1							4.9	7.3
NE	1.7	3.1	3.4	.8								9.0	6.4
ENE	2.2	3.5	2.7									8.4	5.2
E	3.6	2.7	1.9									8.2	4.4
ESE	1.1	1.1	1.0	.1								3.4	5.1
SE	.7	.3	.1									1.1	3.0
SSE	.4	.2	.2									.9	4.3
S	2.4	2.4	1.0	.7								6.4	5.3
SSW	2.2	4.4	5.2	3.4	.2							15.4	7.6
SW	3.0	5.6	4.4	4.2	.9		.1					18.2	8.1
WSW	1.5	1.8	2.6	2.2	.8							8.9	8.8
W	.8	.7	1.1	1.6	.1	.2						4.5	9.6
WNW	.1	.6	1.1	.6								2.4	8.3
NW		.2	.7	.3		.2						1.5	11.5
NNW			.2									.2	10.0
VARBL	2.5	.1										2.6	1.9
CALM												2.2	
	23.6	28.4	28.4	14.6	2.2	.4	.1					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 891

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

UCT
NORTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.5	.7	.2								1.6	6.7
NNE	.6	1.6	2.1	.7	.2							5.2	7.7
NE	1.2	2.4	3.2	1.0								7.8	7.1
ENE	.8	2.2	1.3	.6								4.8	6.3
E	1.5	2.8	2.2									6.5	5.3
ESE	1.0	1.0	1.2	.1								3.3	5.4
SE	.5	.5	.3									1.3	4.9
SSE	.5	.7	.1									1.3	3.6
S	1.6	1.7	1.4	.2								5.0	5.6
SSW	1.4	3.7	5.7	2.7	.3							13.7	8.0
SW	2.2	3.1	4.5	6.0	1.0	.2		.1				17.2	9.8
WSW	1.6	2.7	3.1	3.0	1.4	.3						12.1	9.5
W	.7	1.3	2.1	2.5	1.4							8.0	10.6
WNW	.3	.8	2.0	1.2	.1							4.4	8.8
NW	.3	.5	.5	.1								1.4	6.3
NNW	.3	.2	.3	.2		.1						1.3	8.3
VARBL	3.7	.3										4.0	2.2
CALM												1.2	
	18.5	26.0	30.6	18.6	4.5	.7		.1				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 867

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

UCT
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.8	.8	.3								2.8	6.1
NNE	.3	1.5	1.9	1.5	.1							5.3	8.6
NE	1.7	2.6	1.7	1.5								7.5	6.3
ENE	2.4	1.4	.9									4.6	4.3
E	4.5	4.2	1.1									9.8	4.0
ESE	.9	.2	.1									1.2	3.4
SE	1.0	.2	.1	.1								1.5	3.5
SSE	1.2	.1										1.4	2.3
S	3.1	3.8	2.9	.1								10.0	5.1
SSW	2.4	4.3	4.9	1.7								13.2	6.6
SW	2.7	3.3	4.8	3.2	.9	.1						14.9	8.3
WSW	.8	2.3	2.6	2.4	.3	.1						8.5	8.8
W	.8	.9	1.7	2.5	.7							6.6	10.2
WNW	.6	.9	2.3	.2	.1							4.2	7.6
NW	.3	1.2	1.2									2.8	6.1
NNW	.1	.5	.6	.1								1.2	6.3
VARBL	.7	.3										1.0	2.4
CALM												3.4	
	24.4	28.5	27.6	13.7	2.1	.2						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

884

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS MONTH JCT
ALL WEATHER 1800-2000
CLAM HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	1.0	1.1	.1								2.8	6.0
NNE	1.5	1.5	1.7	1.1								5.8	6.6
NE	2.7	3.6	2.0	.5								9.8	4.9
ENE	4.1	3.3	.2									7.6	3.5
E	3.1	2.7										5.8	3.3
ESE	1.9	.5										2.4	2.3
SE	.9	.1										1.0	1.9
SSE	1.1	.7										1.8	2.8
S	5.4	4.1	1.5	.5								11.4	4.3
SSW	3.1	4.1	5.9	1.5								14.5	6.3
SW	2.1	2.8	3.5	2.8	.5							11.9	8.0
WSW	2.1	1.6	1.8	1.1	.3							7.0	7.0
W	.5	1.2	.3	1.0	.3							3.4	8.7
WNW	.2	.3	.7	.3	.1							1.7	8.2
NW	.1	.6	.6	.3								1.6	7.6
NNW	.3	.6	.5	.1								1.5	5.5
YARL	1.5											1.5	1.5
CALM												8.7	
	32.2	28.6	19.9	9.4	1.2							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 885

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS UCT NORTH 2100-2300 HOURS (L.S.T.)
 ALL WEATHER CLAS
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.2	.3	.1								1.4	4.8
NNE	3.3	2.0	1.4	.2								7.0	4.7
NE	5.0	6.8	1.4	.8								13.9	4.6
ENE	5.2	3.6	.1									8.9	3.1
E	2.5	1.5										4.0	2.9
ESE	1.2	.1										1.4	1.8
SE	1.0											1.0	1.4
SSE	1.4	.3										1.7	2.5
S	4.0	3.8	2.4	.2								10.4	4.9
SSW	3.7	5.0	6.3	1.7								16.7	6.4
SW	2.3	3.1	2.9	1.8	.3							10.4	7.1
WSW	1.2	.7	1.6	1.6	.3							3.4	8.4
W	.2	.9	.9	.3								2.4	7.3
WNW	.2	.7	.3	.2	.2							1.7	7.9
NW	.3	.3	.5	.3								1.5	7.0
NNW	.6	.5	.1	.1								1.2	4.2
VARBL	.9	.1										1.0	2.0
CALM												10.1	
	33.7	29.4	18.2	7.6	.9							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 885

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS NOV MONTH
 ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	.7										1.8	3.1
NNE	2.2	3.0	2.4	1.0	.4							6.9	6.6
NE	4.9	3.7	.8	.1								9.6	3.8
ENE	4.5	1.3	.4									6.1	3.0
E	2.4	.5										2.9	2.4
ESE	1.8											1.8	2.0
SE	.6	.1										.7	2.8
SSE	1.2	.1										1.3	1.8
S	4.5	3.9	2.9	1.3	.6							13.1	6.0
SSW	3.3	4.8	6.1	3.1	.7							18.1	7.4
SW	1.3	2.4	3.1	4.5	1.2	.6						13.1	10.5
WSW	.8	1.0	2.3	1.6	.8							6.5	9.4
W	.6	.4	1.2	.5	.4	.1						3.1	9.3
WNW	.2	1.0	.6	.1								1.9	5.9
NW		1.1	.6	.1								1.8	6.3
NNW	.4	.4	.1	.1								1.0	5.1
VARBL	1.4											1.4	1.5
CALM												6.4	
	31.2	24.3	20.6	12.4	4.1	.7						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 830

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS NOV MONTH
0300-0500 HOURS (L.S.T.)
 ALL WEATHER CLASS
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	.6	.5									2.1	4.4
NNE	2.6	2.1	2.4	.8								7.9	5.8
NE	4.9	3.3	1.3	.5								10.0	4.4
ENE	2.6	2.1	.8									5.5	4.0
E	3.4	.8	.2									4.5	2.6
ESE	1.8	.1										1.9	1.9
SE	.9											.9	1.9
SSE	.3	.3										1.1	2.5
S	2.6	3.4	3.7	.8								10.5	5.9
SSW	2.6	4.7	5.4	6.8	.9	.1						20.5	8.7
SW	2.2	2.3	3.0	3.8	1.0	.5	.2					12.9	9.7
WSW	1.6	1.8	2.3	1.3	.1							7.1	7.2
W	.7	.7	1.0	1.1	.3	.1						4.0	9.5
WNW		.2	.8	.1								1.1	7.8
NW	.3	.1	.2									.7	4.7
NNW		.3	.2									.6	6.0
VARBL	1.6											1.6	1.5
CALM												7.1	
	29.9	22.9	21.7	15.1	2.4	.7	.2					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 874

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

NOV
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	.3	.7	.2								2.4	5.0
NNE	1.5	1.5	2.4	.9								6.3	6.7
NE	4.1	3.9	.9	.5								9.4	4.5
ENE	4.3	2.1	.8									7.1	3.5
E	3.3	.6	.6									4.5	2.8
ESE	1.4	.3										1.7	2.1
SE	.7	.1										.8	1.7
SSE	.5	.3										.8	2.6
S	2.8	3.7	3.7	1.2	.1							11.4	6.1
SSW	1.7	4.7	7.8	5.9	.6	.1						20.8	8.6
SW	1.2	3.6	3.6	4.1	1.3	.8						14.5	10.1
WSW	1.3	1.3	1.8	2.0	.5		.1					6.9	9.0
W	.6	.7	1.2	.7								3.1	7.7
WNW	.2	.3	.6	.2								1.4	6.6
NW	.1	.1	.3									.6	5.6
NNW	.7	.2	.1									1.0	3.4
VARBL	2.3											2.3	1.7
CALM												4.8	
	27.7	23.8	24.5	15.7	2.4	.9	.1					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

869

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

NOV
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.5	.5	.4								2.0	6.4
NNE	.8	.8	1.6	1.8								5.0	8.3
NE	1.9	3.5	1.4	.9								7.7	5.9
ENE	3.6	2.0	.8									6.4	3.9
E	2.3	1.9	1.1									5.3	4.2
ESE	.9	.8	.1									1.9	3.5
SE	.8	.1	.1									1.1	2.7
SSE	.2		.1									.4	4.3
S	1.8	2.6	3.8	1.9								10.0	7.2
SSW	1.4	4.3	8.2	6.6	.4	.1						21.0	9.1
SW	1.5	3.5	5.3	5.3	2.5	.7						18.8	10.5
WSW	1.2	1.8	1.2	2.1	.4	.1						6.7	9.0
W	.4	.5	1.6	2.0	.1	.2						4.8	10.5
WNW	.2	.2	.7	.1	.1							1.4	7.8
NW	.2	.4	.2	.4								1.2	6.9
NNW	.4	.4	.1									.8	4.3
VARBL	2.0	.2										2.2	1.8
CALM												3.4	
	20.4	23.4	26.8	21.3	3.4	1.2						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

853

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS NOV MONTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
 _____ CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	1.3	.2	.6								2.7	6.5
NNE	1.2	1.5	2.4	1.4	.2							6.7	8.0
NE	1.2	1.9	1.9	.5								5.6	6.1
ENE	1.2	2.0	.7	.1								4.0	4.8
E	2.0	1.3	1.5	.1								5.0	4.8
ESE	.5	1.3	.2									2.0	4.8
SE	.4	.2										.6	3.4
SSE	.9	.6										1.5	3.0
S	2.0	2.6	2.4	1.5	.5							9.0	7.4
SSW	1.7	4.6	6.7	5.7	.8							19.5	8.8
SW	.3	2.1	5.4	5.9	2.4	.5						17.1	11.4
WSW	1.4	1.1	1.7	3.0	1.1	.5						8.6	10.7
W	.4	1.1	3.0	2.8	.4	.2	.1					7.9	10.5
WNW	.4	.2	1.8	.9								3.3	8.7
NW	.1	.4	.7	.1								1.3	7.2
NNW	.1	.2										.4	4.0
VARBL	2.0	.1										2.1	1.9
CALM												2.6	
	16.9	22.6	28.6	22.7	5.3	1.2	.1					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 846

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 RHEIN-MAIN APT GERMANY/FRANKEURT 67-76 NOV
STATION STATION NAME YEARS MONTHS
 ALL WEATHER 1500-1700
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.8	1.1	.8	.6								4.2	5.2
NNE	2.5	2.5	2.0	.9	.2							8.1	6.4
NE	2.1	1.6	1.3	.2								5.3	5.0
ENE	2.8	1.9	.4									5.1	3.5
E	2.8	2.7	.4									5.9	3.7
ESE	1.4	1.2										2.6	3.4
SE	.9	.5										1.6	2.6
SSE	1.2	.7										1.9	3.1
S	2.6	3.5	3.6	1.4	.2							11.6	6.7
SSW	1.3	2.8	5.5	4.2	.8							14.7	9.2
SW	1.1	2.0	2.8	6.0	2.2	.1						14.2	11.2
WSW	1.2	2.4	2.5	2.9	1.3							10.2	9.6
W	.6	1.1	1.9	2.0	.1	.2						5.9	9.2
WNW		.6	1.1	.2								1.9	8.0
NW		.6	.6	.2								1.6	7.9
NNW	.1	.5	.1									.7	4.8
VARBL	1.9	.1										2.0	2.2
CALM												3.1	
	24.2	25.6	22.9	18.8	6.9	.4						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 950

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

NOV
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.4	.7	.5	.2								3.8	3.7
NNE	2.4	2.0	1.0	.6	.2							6.8	5.8
NE	3.0	3.5	.8	.5								8.3	4.4
ENE	3.2	1.6	.2									5.1	3.2
E	3.8	2.7	.2									6.7	3.5
ESE	1.7	.8										2.5	2.8
SE	.6	.7										1.3	3.5
SSE	1.5	.3										1.8	2.9
S	2.7	4.4	2.3	2.0	.1							11.4	6.4
SSW	2.5	3.9	6.0	3.1	.5							18.6	8.5
SW	1.4	2.4	2.9	6.0	.8							13.5	10.0
WSW	.7	2.1	2.2	1.4	.3	.3						7.1	9.1
W	.3	1.0	1.2	1.0	.1							3.7	8.8
WNW		.6	.7	.2	.3							1.8	9.7
NW		.2	.2									.5	7.5
NNW	.1	.6	.1		.1							.9	6.5
VARBL	.9	.3										1.3	2.4
CALM												4.7	
	28.0	27.9	19.5	17.0	2.5	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 865

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 35032 RHEIN-MAIN APT GERMANY/FRANKFURT YEARS 67-76 MONTH NOV
 STATION NAME ALL WEATHER CLAS 2100-2300
 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-5	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	.6	.2	.1								2.3	3.7
NNE	2.9	3.6	1.9	.7	.4							9.2	5.7
NE	4.4	3.6	.6									8.4	3.7
ENE	3.6	1.6	.6									5.6	3.3
E	3.0	.9	.1									4.1	2.9
ESE	2.2	.8										3.0	2.5
SE	1.1	.2										1.3	1.9
SSE	1.1	.1	.1									1.3	2.2
S	4.7	4.1	6.0	1.6	.2							14.4	5.9
SSW	1.2	4.7	6.0	4.6	.6							16.8	8.6
SW	1.9	2.1	4.6	4.0	.7	.1						12.7	9.5
WSW	1.3	1.9	2.9	1.3	.6	.2	.1					8.3	8.7
W	.7	.2	.4	.5	.4	.1						2.2	9.2
WNW	.1	.3	.4	.4								1.3	7.8
NW	.2	.6	.1	.5								1.4	7.2
NHW	.5	.6	.1									1.2	4.2
VARBL	1.6											1.6	1.5
CALM												4.9	
	31.3	25.4	21.8	13.2	2.8	.5	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 857

SURFACE WINDS

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS DEC MONTH
ALL WEATHER PERIOD 0000-0200 HOURS (L.S.T.)
 CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.6	.2									1.6	3.9
NNE	1.4	2.7	1.9	.9								7.0	6.5
NE	4.2	4.9	2.1	.9	.1	.1						12.3	5.4
ENE	3.2	4.2	.8	.1								8.3	4.2
E	1.6	2.6	.1									4.3	3.7
ESE	1.5	.5										1.9	2.6
SE	1.0											1.0	2.0
SSE	.9	.3										1.3	2.5
S	3.3	4.5	2.7	.9								11.4	5.5
SSW	2.4	4.8	7.9	3.9	.3							19.3	7.8
SW	1.6	2.2	3.1	3.6	.9	.1						11.3	9.1
WSW	.8	1.5	1.5	1.8	.3	.1						6.1	9.3
W	.8	.7	1.0	.9								3.4	7.6
WNW	.2	.5	.7	.3								1.7	7.9
NW	.2		.3	.3	.1	.1						1.1	11.2
NNW	.3	.6										.9	3.5
VARBL	1.1											1.1	1.5
CALM												5.7	
	25.5	30.5	22.4	13.6	1.8	.5						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 875

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS MONTH DFC
 CLASS ALL WEATHER HOURS (L.S.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	.3	.4	.4									1.2	5.1
NNE	1.4	2.7	2.1	.7								6.9	6.1
NE	4.6	5.4	1.4	.8	.2							12.4	5.1
ENE	4.6	3.9	1.0									9.4	3.8
E	3.0	1.0										4.0	2.6
ESE	1.6	.4	.1									2.1	3.0
SE	.7											.7	2.2
SSE	1.0											1.0	2.0
S	3.4	4.6	2.7	.4	.2							11.3	5.4
SSW	2.1	5.0	7.2	4.9	.6							19.8	8.2
SW	2.1	2.2	3.4	3.9	.4							12.1	8.6
WSW	.6	.9	1.6	1.2	.7							4.9	9.4
W	.1	.6	1.2	.7	.2	.2						3.0	10.3
WNW	.1	.3	.9	.4	.1	.1						2.0	9.5
NW		.6	.4									1.0	6.8
NNW	.6	.4	.4									1.4	5.2
VARBL	.6	.1										.7	2.3
CALM												6.1	
	26.6	28.5	23.0	13.0	2.4	.3						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 901

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS DEC MONTH
 ALL WEATHER CLASS 0600-0800 HOURS (L. S. T.)
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.2	.3	.1								1.3	6.6
NNE	1.8	1.8	2.4	.9								6.8	6.5
NE	4.0	4.3	2.5	.8								11.5	5.2
ENE	4.3	3.5	1.0									8.7	3.9
E	2.8	1.1	.3									4.3	3.3
ESE	1.8	.6										2.4	2.5
SE	.7	.1										.8	2.3
SSE	1.3	.3										1.7	2.5
S	3.0	3.7	3.1	1.3		.1						11.3	6.2
SSW	2.1	5.4	7.5	5.5	.7							21.2	8.3
SW	1.8	2.7	3.8	3.8	1.0							13.1	9.0
WSW	.8	.9	1.1	1.2	.8							4.8	9.7
W	.1	.3	.8	.7	.2	.1						2.2	10.5
WNW		.2	.8	.3								1.3	9.2
NW		.8		.4								1.2	7.7
NNW	.3	.2	.1									.7	4.3
VARBL	.9	.1										1.0	1.9
CALM												5.6	
	26.4	26.2	23.7	15.1	2.7	.2						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 893

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS DFC MONTH

ALL WEATHER CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.8	.1	.1								1.7	4.6
NNE	1.8	1.8	1.8	1.6								6.9	6.7
NE	2.7	2.8	3.1	1.0								9.6	6.1
ENE	3.8	4.6	.6									8.9	3.8
E	2.6	1.7	.8									5.0	3.8
ESE	1.3	.9	.1									2.3	3.5
SE	.7	.7	.1									1.5	3.8
SSE	1.1	.4	.1									1.7	3.1
S	2.2	2.7	2.8	.8	.1							9.6	6.0
SSW	1.6	5.1	9.2	3.9	1.1							20.9	8.6
SW	1.3	3.5	4.7	5.6	.6		.1					15.7	9.4
WSW	1.0	.9	2.1	1.9	.6	.1						6.6	9.6
W	.1	1.1	.8	.6	.1							2.7	8.3
WNW	.1	.1	.3	.8								1.3	9.6
NW	.1	.7	1.0	.3								2.1	7.4
NNW		.2	.3	.1								.7	8.2
VARBL	1.0	.2										1.2	2.5
CALM												2.6	
	22.1	28.1	27.9	16.6	2.5	.1	.1					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 896

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKEUPT 67-76 YEARS DEC MONTH

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	.7	.6	.6	.1								1.9	5.2
NNE	1.4	1.8	1.6	2.4								7.1	7.5
NE	2.0	3.3	2.9	1.6								9.9	6.6
ENE	2.4	4.2	1.9	.2								8.7	5.0
E	2.0	3.2	.6	.1								5.9	4.4
ESE	1.0	1.6										2.6	3.9
SE	.6	.1										.7	2.5
SSE	.2	.2										.5	4.0
S	1.8	1.9	2.8	.6	.1							7.3	6.2
SSW	1.2	4.9	7.4	4.8	.3							18.6	8.3
SW	.2	2.8	6.3	4.5	1.1	.1						15.2	10.0
WSW	1.1	1.5	2.0	2.7	1.2	.2						8.8	10.3
W	.2	.1	1.2	1.0	.3							2.9	10.7
WNW	.1	.2	1.2	.2								1.8	8.2
NW		.5	1.1	.7	.2							2.5	10.0
NNW	.2	.3	.3	.1	.1							1.1	7.2
VARBL	1.1	.2										1.4	2.3
CALM												3.1	
	16.4	27.4	30.2	19.0	3.5	.3						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 882

6
2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS MONTH DEC

ALL WEATHER
CLASS
CONDITION

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

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.9	.2	.3								2.3	5.1
NNE	1.4	1.8	2.9	1.8								7.9	7.5
NE	3.7	4.1	1.7	.4								9.9	4.8
ENE	3.7	2.6	.9									7.1	3.7
E	3.7	3.3	.4									7.4	3.7
ESE	1.1	1.0	.2									2.3	3.7
SE	.8	.2										1.0	2.8
SSE	.9	.2										1.1	2.4
S	2.3	4.2	2.4	.4								9.4	5.4
SSW	1.1	4.2	7.9	4.8	.2							18.2	8.7
SW	1.4	3.4	4.3	4.9	.6							14.7	8.8
WSW	1.0	1.2	1.6	2.0	.6							6.3	9.4
W	.6	1.0	.9	.8	.4	.1						3.8	9.3
WNW	.1	.2	1.1	.4								1.9	8.8
NW	.1	.7	1.3	.2								2.3	7.7
NNW	.2	.6	.4	.2								1.4	6.1
VARBL	.7											.7	1.8
CALM												2.2	
	23.6	29.6	26.3	16.3	1.8	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 901

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 DEC
STATION NAME YEAR MONTH
ALL WEATHER 1800-2000
CLAS HOUR (LST 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	.6	.8									2.2	5.4
NNE	1.4	3.2	3.7	1.2	.2							9.8	7.1
NE	2.2	4.9	2.0	.9								10.0	5.6
ENE	3.6	1.9	.3									5.9	3.5
E	2.8	3.1	.1	.1								6.1	3.6
ESE	1.9	.6										2.5	2.5
SE	1.1	.2										1.4	2.4
SSE	1.1	.3										1.5	2.5
S	3.4	3.5	3.1	.1								10.1	5.0
SSW	2.5	4.4	7.2	5.2	.5	.1						19.9	8.4
SW	1.1	3.3	3.4	4.1	.7	.1						12.7	9.0
WSW	.7	1.1	1.5	1.0	.5	.1						4.9	9.0
W	.2	.6	1.2	.8	.2							3.1	9.4
WNW	.1	.8	.7	.3	.2							2.2	8.5
NW	.1	.3	1.1	.1								1.7	7.5
NNW	.1	.3										.5	4.0
VARBL	1.0											1.0	1.7
CALM												4.7	
	24.3	29.2	25.2	14.0	2.3	.3						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 880

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

DEC
MONTH

ALL WEATHER
CLASS

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

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	.6	.6									1.7	5.1
NNE	.7	2.8	2.4	.6								6.4	6.5
NE	4.2	4.8	2.4	1.4								12.7	5.4
ENE	4.1	3.4	.6									8.0	3.8
E	2.7	2.0										4.7	3.0
ESE	1.1	.8	.1									2.0	3.3
SE	.9	.3										1.2	2.4
SSE	1.2	.1	.1									1.5	2.2
S	3.9	3.8	3.3	.5								11.5	5.1
SSW	2.1	7.4	7.3	4.5	.3							21.7	7.5
SW	1.2	3.0	3.5	2.8	1.4							11.9	9.1
WSW	.7	.9	1.2	1.1	.8							4.7	9.9
W	.2	.6	1.6	.7	.3							3.4	9.5
WNW	.5	.1	.6	.7	.1							1.2	6.2
NW		.5	.8	.5								1.7	9.0
NNW	.5	.1	.5									1.0	5.2
VARBL	.7											.7	1.8
CALM												3.8	
	25.2	31.3	24.8	11.9	2.9							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

888

2
 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

25022 STATION RHEIN-MAIN APT GERMANY/ERANKUPT 67-70, 73-76 YEARS ALL
STATION NAME YEARS NORTH

INSTRUMENT ALL
INSTRUMENT TYPE HOURE (L.S.T.)

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

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

SPEED: (KNTS) DIR.	1-3	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	.6	.3	.0								2.0	3.7
NNE	2.4	2.1	1.7	1.0	.1							7.3	6.0
NE	5.6	4.8	1.2	.1	.0							11.8	4.0
ENE	5.1	3.5	.3									8.9	3.3
E	4.0	2.5	.2									6.7	3.2
ESE	1.8	.7	.1									2.6	2.7
SE	.8	.3										1.1	2.5
SSE	1.2	.4		.0								1.6	2.5
S	3.8	3.3	2.8	.3	.0							10.2	5.0
SSW	2.7	5.0	6.1	2.7	.2	.0						16.7	7.1
SW	2.1	3.4	2.3	1.1	.3	.0						9.2	6.6
WSW	1.6	1.4	.8	.2	.1		.0					4.1	5.1
W	.6	.7	.3	.1	.0	.0						1.6	5.2
WP W	.3	.4	.2	.1								.9	5.2
NW	.2	.1	.2	.0		.0						.6	5.9
NNW	.3	.1	.1	.1								.6	4.9
VARBL	3.7	.1										3.8	1.8
CALM												10.3	
	37.3	29.5	16.5	5.8	.6	.1	.0					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 7416

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

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

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

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

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

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
1800															
1500					91.0										92.6
1200															
1000															
900															
800															
700															
600															
500										97.4					98.1
400															
300															
200															
100					95.4		96.9			98.3					
0															100.0

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

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

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

ADDITIONAL EXAMPLES

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

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

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

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

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35C32
 STATION

RFEIN-MAIN APT GERMANY/FRANKFURT

67-76

ALL
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL
 MONTHS

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.15	≥.1	
NO CEILING																	
≥ 20000		26.2	27.9	30.5	33.5	34.2	35.0	36.1	36.4	36.6	36.7	36.8	36.8	36.9	36.9	37.0	
18000		31.7	33.8	36.9	40.4	41.4	42.2	43.5	44.0	44.2	44.3	44.4	44.5	44.5	44.6	44.7	44.8
16000		31.8	33.9	37.0	40.5	41.6	42.5	43.8	44.1	44.4	44.5	44.5	44.6	44.7	44.7	44.8	
14000		31.8	33.9	37.0	40.6	41.6	42.5	43.8	44.1	44.4	44.5	44.6	44.6	44.7	44.7	44.8	
12000		32.4	34.6	37.8	41.3	42.4	43.3	44.6	45.0	45.2	45.3	45.4	45.4	45.5	45.5	45.7	
10000		34.3	36.7	40.1	43.9	45.0	46.0	47.3	47.7	48.0	48.1	48.1	48.2	48.3	48.3	48.4	
9000		37.0	39.6	43.4	47.6	48.9	49.9	51.4	51.8	52.0	52.2	52.2	52.3	52.4	52.4	52.5	
8000		38.2	41.0	44.9	49.3	50.6	51.6	53.1	53.3	53.8	53.9	54.0	54.1	54.1	54.2	54.3	
7000		39.0	41.8	45.9	50.3	51.7	52.8	54.3	54.5	55.0	55.1	55.2	55.3	55.3	55.4	55.5	
6000		40.6	43.5	47.7	52.3	53.7	54.8	56.4	56.5	57.0	57.1	57.2	57.3	57.4	57.5	57.5	
5000		43.1	46.2	50.6	55.5	56.9	58.1	59.8	60.3	60.6	60.7	60.8	60.8	60.9	60.9	61.1	
4500		46.0	49.3	54.0	59.2	60.8	61.1	62.9	63.4	64.7	64.8	64.9	65.0	65.1	65.1	65.2	
4000		47.9	51.3	56.2	61.6	63.2	64.6	66.1	67.3	67.9	67.9	67.9	67.9	67.9	67.9	67.9	
3500		50.6	54.3	59.4	65.3	67.0	68.5	70.5	71.0	71.4	71.5	71.5	71.7	71.8	71.8	71.9	
3000		52.5	56.4	61.8	68.0	69.8	71.3	73.4	74.0	74.4	74.5	74.5	74.7	74.8	74.8	74.9	
2500		55.0	59.1	64.9	71.4	73.4	75.1	77.3	78.0	78.4	78.5	78.5	78.7	78.8	78.8	79.0	
2000		56.9	61.3	67.5	74.4	76.6	78.4	80.8	81.9	81.9	81.9	82.1	82.2	82.4	82.4	82.5	
1800		58.5	63.4	70.0	77.4	79.8	81.7	84.4	85.1	85.5	85.5	85.5	85.7	85.8	85.8	86.1	
1500		59.0	64.2	70.9	78.6	81.0	82.9	85.7	86.4	86.9	87.0	87.1	87.2	87.3	87.3	87.5	
1200		60.3	65.4	72.4	80.5	83.0	85.1	88.1	88.8	89.4	89.5	89.5	89.7	89.8	89.9	90.0	
1000		61.0	66.0	73.4	81.9	84.5	86.7	89.9	90.7	91.3	91.5	91.5	91.7	91.8	91.8	91.9	
900		61.2	66.2	73.7	82.5	85.3	87.6	91.0	91.8	92.4	92.6	92.7	92.8	92.9	92.9	93.1	
800		61.2	66.3	73.8	82.7	85.3	87.9	91.3	92.2	92.8	92.9	93.1	93.2	93.3	93.3	93.4	
700		61.2	66.3	74.0	83.0	85.8	88.3	91.9	92.8	93.4	93.6	93.7	93.8	93.9	93.9	94.1	
600		61.2	66.4	74.1	83.2	86.1	88.6	92.3	93.3	93.9	94.1	94.2	94.3	94.4	94.5	94.6	
500		61.3	66.4	74.2	83.6	86.5	89.3	93.3	94.4	95.1	95.4	95.6	95.7	95.8	95.8	96.0	
400		61.3	66.4	74.2	83.6	86.7	89.5	93.7	94.9	95.7	96.1	96.3	96.4	96.5	96.6	96.7	
300		61.3	66.4	74.2	83.7	86.8	89.6	94.1	95.4	96.3	96.9	97.2	97.4	97.6	97.6	97.8	
200		61.3	66.4	74.2	83.7	86.8	89.6	94.2	95.6	96.8	97.3	97.4	97.9	97.9	98.2	98.3	
100		61.3	66.4	74.2	83.7	86.8	89.6	94.2	95.6	96.8	97.4	97.7	98.0	98.4	98.6	99.2	
0		61.3	66.4	74.2	83.7	86.8	89.6	94.2	95.6	96.8	97.4	97.8	98.1	98.6	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 81458

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 07-70 JA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FT)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥1	≥½	≥½	≥.	≥5/16	≥.	≥0
NO CEILING ≥ 20000		9.1	10.1	11.0	14.2	15.2	16.0	17.6	18.1	18.6	18.6	19.1	19.2	19.3	19.4	19.5
8000 = 16000		11.1	12.6	14.5	17.5	18.8	19.9	22.0	22.6	23.2	23.5	23.9	24.1	24.3	24.3	24.4
≥ 14000 = 12000		11.1	12.9	14.9	18.0	19.3	20.4	22.5	23.1	23.7	24.0	24.4	24.6	24.8	24.8	24.9
≥ 10000 = 9000		12.1	13.8	15.9	19.3	20.7	21.8	24.0	24.7	25.3	25.6	25.9	26.2	26.4	26.4	26.5
≥ 8000 = 7000		13.4	15.2	17.9	21.5	23.1	24.2	26.6	27.3	27.9	28.3	28.7	28.8	29.1	29.1	29.2
≥ 6000 = 5000		14.3	16.4	19.3	23.3	24.9	26.2	28.7	29.5	30.1	30.3	30.5	31.1	31.3	31.3	31.5
≥ 4500 = 4000		15.1	17.3	20.3	24.4	26.1	27.3	30.1	30.9	31.6	31.7	32.4	32.6	32.9	32.9	33.0
≥ 3500 = 3000		16.5	18.8	21.9	26.4	28.2	29.6	32.4	33.3	34.1	34.5	34.9	35.1	35.4	35.5	35.6
≥ 2500 = 2000		18.2	20.7	23.7	29.0	31.1	32.7	35.7	36.6	37.5	37.9	38.4	38.6	38.9	39.0	39.1
≥ 1800 = 1500		19.6	22.2	25.6	31.0	33.1	34.9	38.1	39.1	40.0	40.4	40.9	41.1	41.4	41.5	41.6
≥ 1200 = 1000		21.3	24.1	27.5	33.9	36.1	38.2	41.8	42.9	43.8	44.2	44.7	45.0	45.3	45.4	45.5
≥ 900 = 800		23.2	26.4	30.6	37.0	39.3	41.4	45.4	46.5	47.5	48.0	48.5	48.7	49.1	49.1	49.3
≥ 700 = 600		25.7	30.2	34.5	42.1	44.8	47.2	51.5	52.7	53.9	54.3	54.9	55.2	55.6	55.6	55.9
≥ 500 = 400		29.7	33.5	39.0	47.2	50.3	52.9	57.7	59.0	60.2	60.7	61.3	61.6	62.0	62.0	62.2
≥ 300 = 200		33.6	37.7	43.8	53.1	56.8	59.7	65.0	66.4	67.7	68.2	68.4	69.1	69.5	69.6	69.7
≥ 100 = 0		35.0	39.4	45.8	55.6	59.4	62.5	68.1	69.6	70.9	71.4	72.0	72.3	72.7	72.7	72.9
		37.1	41.9	48.5	59.3	63.6	67.1	73.4	75.0	76.5	77.0	77.4	78.0	78.4	78.4	78.6
		38.3	43.4	51.0	62.3	66.8	70.4	77.2	79.1	80.6	81.2	81.6	82.2	82.6	82.6	82.8
		38.7	44.0	52.0	63.9	68.5	72.2	79.5	81.5	83.1	83.6	84.2	84.7	85.1	85.1	85.3
		38.8	44.1	52.3	64.3	68.9	72.7	80.2	82.2	83.8	84.3	85.0	85.4	85.8	85.9	86.0
		38.8	44.2	52.6	65.0	69.8	73.7	81.5	83.6	85.1	85.7	86.4	86.8	87.2	87.2	87.4
		38.8	44.3	52.8	65.3	70.3	74.3	82.4	84.6	86.2	86.8	87.5	88.0	88.4	88.5	88.7
		38.8	44.3	52.9	65.8	70.7	74.8	83.2	85.6	87.3	88.1	88.8	89.3	89.8	89.9	90.0
		38.8	44.3	53.0	66.0	71.1	75.4	84.2	86.8	88.7	89.5	90.3	90.9	91.5	91.6	91.7
		38.8	44.3	53.0	66.1	71.4	75.7	85.1	88.0	90.1	91.1	92.0	92.6	93.3	93.4	93.5
		38.8	44.3	53.0	66.3	71.5	76.1	85.9	89.2	91.7	93.0	94.1	94.9	95.7	95.9	96.1
		38.8	44.4	53.1	66.3	71.6	76.2	86.2	89.6	92.4	93.8	95.0	96.0	97.1	97.3	97.6
		38.8	44.4	53.1	66.3	71.6	76.2	86.2	89.6	92.5	93.9	95.2	96.3	97.6	97.8	98.4
		38.8	44.4	53.1	66.3	71.6	76.2	86.2	89.6	92.5	93.9	95.2	96.4	97.8	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 7054

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 REIN-MAIN APT GERMANY/FRANKFURT 57-76

FE.
MONTH

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	≥½	≥¼	≥0.16	≥0.1	≥0
NO CEILING																
≥ 20000		17.0	18.7	22.0	26.5	27.8	26.7	30.2	30.5	30.9	31.0	31.0	31.1	31.1	31.1	31.2
18000		20.3	22.3	26.1	31.6	33.0	34.2	36.1	36.5	36.9	37.0	37.1	37.1	37.2	37.2	37.3
16000		20.3	22.4	26.1	31.7	33.1	34.3	36.2	36.6	37.0	37.1	37.2	37.2	37.3	37.3	37.4
14000		20.7	22.8	26.6	32.2	33.7	34.9	36.9	37.3	37.7	37.8	37.9	37.9	38.0	38.0	38.1
12000		21.9	24.4	28.4	34.4	35.9	37.1	39.2	39.6	40.0	40.1	40.2	40.2	40.3	40.3	40.4
10000		23.1	25.8	30.1	36.6	38.3	39.5	41.6	42.1	42.6	42.7	42.7	42.8	42.8	42.8	43.0
9000		23.5	26.3	30.8	37.6	39.2	40.5	42.7	43.2	43.6	43.7	43.8	43.8	43.9	43.9	44.0
8000		23.8	26.6	31.2	38.1	39.8	41.0	43.3	43.8	44.3	44.4	44.4	44.5	44.5	44.5	44.7
7000		24.5	27.3	32.1	39.1	40.8	42.1	44.4	45.0	45.4	45.6	45.6	45.7	45.7	45.7	45.9
6000		26.1	29.2	34.2	41.4	43.2	44.5	47.0	47.5	48.0	48.2	48.2	48.3	48.3	48.3	48.5
5000		28.5	31.8	37.2	44.9	46.7	48.1	50.7	51.3	51.8	52.0	52.0	52.1	52.2	52.2	52.3
4500		30.7	34.2	39.8	48.0	49.9	51.4	54.1	54.8	55.3	55.5	55.5	55.6	55.6	55.7	55.9
4000		33.7	37.5	43.4	52.0	54.2	55.9	58.8	59.5	60.0	60.2	60.2	60.3	60.3	60.4	60.5
3500		36.4	40.4	46.5	55.5	57.8	59.6	62.5	63.2	63.8	64.0	64.0	64.1	64.1	64.1	64.3
3000		39.2	43.6	50.3	59.7	62.2	64.1	67.4	68.3	68.9	69.1	69.1	69.2	69.2	69.2	69.4
2500		41.6	46.5	53.8	63.9	66.8	68.9	72.6	73.5	74.2	74.3	74.4	74.5	74.5	74.5	74.7
2000		44.5	49.8	57.6	69.7	71.8	74.1	78.1	79.0	79.8	80.0	80.0	80.1	80.2	80.2	80.3
1800		45.4	50.8	58.7	70.2	73.6	76.2	80.4	81.4	82.1	82.4	82.4	82.5	82.6	82.6	82.7
1500		46.4	52.2	60.6	72.9	76.3	79.3	84.1	85.2	86.0	86.2	86.3	86.4	86.5	86.5	86.6
1200		46.9	52.8	61.5	74.4	78.2	81.5	86.7	87.9	88.8	89.0	89.1	89.2	89.3	89.3	89.4
1000		47.1	53.1	62.0	75.3	79.2	82.7	88.1	89.4	90.4	90.7	90.7	90.9	90.9	90.9	91.1
900		47.1	53.2	62.3	75.6	79.6	83.1	88.8	90.0	91.0	91.3	91.4	91.5	91.6	91.6	91.7
800		47.2	53.2	62.3	75.8	79.8	83.4	89.2	90.6	91.6	91.9	92.0	92.2	92.2	92.2	92.4
700		47.2	53.3	62.4	76.1	80.2	83.9	89.9	91.3	92.4	92.8	92.9	93.1	93.2	93.2	93.3
600		47.3	53.4	62.5	76.2	80.3	84.1	90.4	91.9	93.1	93.5	93.6	93.8	93.9	93.9	94.0
500		47.3	53.4	62.5	76.2	80.5	84.4	90.9	92.5	93.9	94.3	94.4	94.6	94.7	94.7	94.9
400		47.3	53.4	62.5	76.3	80.6	84.6	91.4	93.0	94.5	95.0	95.3	95.0	95.7	95.7	95.8
300		47.3	53.4	62.5	76.3	80.6	84.7	91.7	93.6	95.4	96.2	96.6	97.0	97.3	97.3	97.5
200		47.3	53.4	62.5	76.3	80.6	84.7	91.7	93.7	95.7	96.6	97.1	97.7	98.1	98.2	98.5
100		47.3	53.4	62.5	76.3	80.6	84.7	91.7	93.7	95.7	96.7	97.2	97.8	98.4	98.5	99.2
0		47.3	53.4	62.5	76.3	80.6	84.7	91.7	93.8	95.8	96.8	97.5	98.2	99.0	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 6461

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

NA
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS CST

CEILING (FEET)	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥10	≥	≥0	
NO CEILING																	
≥ 20000		25.2	27.7	30.9	34.9	36.0	36.6	37.4	37.6	37.7	37.7	37.9	37.8	37.8	37.8	37.8	37.9
≥ 18000		29.9	33.0	37.2	42.2	43.7	44.5	45.5	45.3	45.9	45.9	46.7	46.0	46.0	46.0	46.1	46.1
≥ 16000		30.0	33.2	37.5	42.4	44.0	44.7	45.8	46.0	46.2	46.2	46.7	46.2	46.2	46.3	46.3	46.3
≥ 14000		30.5	33.8	33.1	43.1	44.7	45.5	46.5	46.7	46.9	46.9	46.9	46.9	46.9	47.0	47.0	47.0
≥ 12000		31.8	35.2	39.8	45.2	46.9	47.7	48.7	49.0	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.3
≥ 10000		33.7	37.2	42.2	48.0	49.8	50.7	51.9	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.5
≥ 9000		34.5	38.1	43.2	49.2	51.0	51.9	53.2	53.5	53.6	53.6	53.7	53.7	53.7	53.7	53.7	53.8
≥ 8000		35.0	38.7	43.8	49.8	51.7	52.6	53.9	54.2	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.5
≥ 7000		36.0	39.8	45.1	51.2	53.1	54.0	55.3	55.6	55.8	55.8	55.8	55.8	55.9	55.9	55.9	56.0
≥ 6000		38.3	42.3	47.7	54.2	56.2	57.1	58.4	58.7	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1
≥ 5000		41.2	45.7	51.5	58.3	60.3	61.4	62.8	63.1	63.3	63.4	63.4	63.4	63.4	63.5	63.5	63.5
≥ 4500		43.3	47.9	54.1	61.1	63.2	64.3	65.7	66.0	66.3	66.4	66.4	66.4	66.4	66.5	66.5	66.5
≥ 4000		47.0	52.1	58.6	66.4	68.5	69.8	71.3	71.7	71.9	72.0	72.0	72.0	72.0	72.1	72.1	72.1
≥ 3500		49.9	55.4	62.4	70.7	72.9	74.2	75.8	76.2	76.4	76.5	76.5	76.5	76.5	76.6	76.6	76.7
≥ 3000		53.1	59.0	66.6	75.4	77.7	79.2	80.9	81.2	81.5	81.6	81.6	81.6	81.7	81.7	81.7	81.7
≥ 2500		55.8	61.7	70.0	79.6	82.1	83.7	85.4	86.0	86.3	86.4	86.4	86.4	86.4	86.5	86.5	86.5
≥ 2000		57.9	64.2	73.1	83.2	85.9	87.8	89.8	90.3	90.6	90.7	90.7	90.7	90.8	90.8	90.8	90.9
≥ 1800		58.7	65.1	74.3	84.6	87.3	89.2	91.3	91.7	92.1	92.2	92.2	92.2	92.3	92.3	92.3	92.3
≥ 1500		60.0	66.5	76.0	86.6	89.6	91.5	93.7	94.1	94.5	94.6	94.6	94.6	94.7	94.7	94.7	94.8
≥ 1200		60.3	67.1	76.8	87.7	90.7	92.7	95.0	95.5	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.3
≥ 1000		60.3	67.1	76.9	88.1	91.3	93.4	95.9	96.4	96.9	97.1	97.1	97.1	97.1	97.2	97.2	97.2
≥ 900		60.4	67.2	77.0	88.2	91.5	93.7	96.1	96.6	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.5
≥ 800		60.4	67.2	77.1	88.4	91.8	94.1	96.7	97.3	97.8	97.9	98.0	98.0	98.0	98.1	98.1	98.1
≥ 700		60.4	67.2	77.1	88.5	92.0	94.3	97.0	97.5	98.1	98.2	98.3	98.3	98.3	98.4	98.4	98.4
≥ 600		60.4	67.2	77.1	88.6	92.1	94.4	97.2	97.8	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.8
≥ 500		60.4	67.2	77.1	88.6	92.1	94.5	97.3	98.0	98.6	98.8	98.8	98.8	98.9	98.9	98.9	99.0
≥ 400		60.4	67.2	77.1	88.7	92.2	94.6	97.5	98.1	98.8	99.1	99.1	99.1	99.2	99.2	99.2	99.3
≥ 300		60.4	67.2	77.1	88.7	92.3	94.8	97.7	98.3	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.7
≥ 200		60.4	67.2	77.1	88.7	92.3	94.8	97.7	98.3	99.1	99.5	99.6	99.6	99.7	99.7	99.7	99.8
≥ 100		60.4	67.2	77.1	88.7	92.3	94.8	97.7	98.3	99.1	99.5	99.6	99.7	99.7	99.8	99.8	99.9
≥ 0		60.4	67.2	77.1	88.7	92.3	94.8	97.7	98.3	99.1	99.5	99.6	99.7	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6949

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRAKUFPT 67-76 YEARS

AP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL YEARS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.7	≥ 2	≥ 1.7	≥ 1.4	≥ 1	≥ .7	≥ .5	≥ .3	≥ .16	≥ .1	≥ 0
NO CEILING	38.0	39.5	42.0	44.1	44.4	44.7	45.1	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.5	45.5
≥ 20000	45.4	47.4	50.4	52.5	53.4	53.7	54.4	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.9
≥ 18000	45.6	47.6	50.6	53.1	53.6	53.9	54.6	54.8	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0
≥ 16000	45.6	47.6	50.6	53.2	53.6	53.9	54.6	54.8	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.1
≥ 14000	46.4	48.4	51.5	54.1	54.6	54.9	55.6	55.8	55.9	55.9	55.9	55.9	55.9	56.9	55.9	56.0
≥ 12000	48.4	50.5	53.7	56.4	56.9	57.3	58.0	58.2	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.5
≥ 10000	51.1	53.6	56.9	59.8	60.4	60.8	61.6	61.8	61.9	61.9	61.9	61.9	61.9	61.9	62.0	62.0
≥ 9000	52.6	55.1	58.5	61.5	62.1	62.5	63.3	63.5	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7
≥ 8000	53.5	56.1	59.7	62.7	63.3	63.7	64.5	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0
≥ 7000	55.2	57.9	61.6	64.8	65.5	65.9	66.7	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.2
≥ 6000	58.0	60.8	64.7	68.0	68.7	69.1	70.0	70.2	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.5
≥ 5000	60.8	63.7	67.8	71.3	72.1	72.6	73.5	73.7	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0
≥ 4500	63.3	66.2	70.4	74.0	74.8	75.3	76.2	76.4	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.7
≥ 4000	67.0	70.1	74.5	78.2	79.0	79.6	80.6	80.8	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.1
≥ 3500	69.2	72.5	77.0	81.0	81.8	82.4	83.4	83.6	83.8	83.9	83.9	83.9	83.9	83.9	84.0	84.0
≥ 3000	72.3	75.8	80.7	84.8	85.7	86.3	87.4	87.7	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.1
≥ 2500	75.1	78.7	83.9	88.2	89.1	89.7	90.8	91.0	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.5
≥ 2000	77.2	81.0	86.5	91.1	92.1	92.8	94.0	94.2	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 1800	77.7	81.5	87.2	91.8	92.9	93.5	94.7	95.0	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.5
≥ 1500	78.5	82.4	88.1	93.1	94.2	95.0	96.2	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9	97.0
≥ 1200	78.6	82.6	88.5	93.6	94.8	95.5	96.8	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.7
≥ 1000	78.7	82.7	88.6	93.9	95.2	95.9	97.3	97.6	97.9	98.0	98.0	98.0	98.0	98.1	98.1	98.2
≥ 900	78.7	82.8	88.6	94.0	95.3	96.1	97.4	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.3	98.3
≥ 800	78.7	82.8	88.7	94.2	95.5	96.3	97.7	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.6
≥ 700	78.7	82.8	88.7	94.3	95.6	96.4	97.9	98.2	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.8
≥ 600	78.8	82.8	88.7	94.4	95.8	96.7	98.1	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
≥ 500	78.8	82.8	88.8	94.4	95.8	96.7	98.3	98.7	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.4
≥ 400	78.8	82.8	88.8	94.4	95.8	96.7	98.4	98.8	99.2	99.3	99.4	99.4	99.4	99.4	99.5	99.6
≥ 300	78.8	82.8	88.8	94.4	95.8	96.8	98.5	98.9	99.4	99.5	99.6	99.6	99.6	99.6	99.7	99.8
≥ 200	78.8	82.8	88.8	94.4	95.8	96.8	98.5	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.8	99.9
≥ 100	78.8	82.8	88.8	94.4	95.8	96.8	98.5	99.0	99.5	99.6	99.7	99.7	99.7	99.8	99.8	99.9
≥ 0	78.8	82.8	88.8	94.4	95.8	96.8	98.6	99.0	99.5	99.6	99.7	99.7	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6673

2

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-70 YEARS MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES:															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000		33.8	35.3	37.3	38.9	39.3	39.6	39.9	40.0	40.0	40.1	40.1	40.1	40.1	40.1	40.1
18000		44.2	46.2	48.8	50.8	51.3	51.6	52.0	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.2
16000		44.2	46.2	48.8	50.8	51.3	51.6	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.2
14000		45.6	47.6	50.3	52.4	52.8	53.1	53.5	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.8
12000		49.1	51.4	54.3	56.5	57.0	57.3	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.9	57.9
10000		52.6	55.1	58.3	61.0	61.6	61.9	62.4	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6
9000		54.6	57.4	60.8	63.6	64.2	64.5	65.0	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.3
8000		55.6	58.5	62.0	64.9	65.5	65.9	66.5	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7
7000		58.0	61.2	64.9	67.8	68.5	69.0	69.5	69.6	69.7	69.7	69.7	69.7	69.7	69.8	69.8
6000		61.4	64.8	68.9	72.1	72.9	73.4	73.9	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2
5000		64.8	68.5	72.8	76.3	77.1	77.7	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6
4500		60.9	70.7	75.3	78.8	79.7	80.3	81.0	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.3
4000		70.0	74.0	78.9	82.8	83.6	84.3	85.0	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.4
3500		72.0	76.1	81.1	85.1	86.0	86.4	87.4	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.8
3000		74.6	78.9	84.2	88.4	89.4	90.2	91.0	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.4
2500		76.0	80.5	85.8	90.3	91.3	92.2	93.0	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.5
2000		77.1	81.7	87.2	91.7	92.8	93.6	94.6	94.7	94.8	94.9	94.9	94.9	94.9	94.9	95.0
1800		77.5	82.1	87.7	92.4	93.5	94.4	95.3	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.7
1500		78.1	82.7	88.5	93.3	94.5	95.4	96.4	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8
1200		78.2	82.9	88.8	93.7	95.0	95.9	96.9	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3
1000		78.2	82.9	88.8	93.8	95.2	96.1	97.2	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.7
900		78.2	82.9	88.9	93.9	95.3	96.2	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.8
800		78.3	83.0	88.9	94.0	95.4	96.4	97.6	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0
700		78.3	83.0	89.0	94.1	95.5	96.5	97.7	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.2
600		78.3	83.0	89.0	94.2	95.7	96.7	97.9	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4
500		78.3	83.0	89.0	94.3	95.8	96.8	98.2	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.8
400		78.3	83.0	89.0	94.3	95.9	97.0	98.4	98.7	98.8	98.9	98.9	98.9	98.9	98.9	99.0
300		78.3	83.0	89.0	94.4	96.0	97.1	98.7	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.5
200		78.3	83.0	89.0	94.4	96.0	97.2	98.7	99.1	99.3	99.5	99.5	99.6	99.6	99.6	99.7
100		78.3	83.0	89.0	94.4	96.0	97.2	98.7	99.1	99.3	99.5	99.5	99.6	99.6	99.6	99.9
0		78.3	83.0	89.0	94.4	96.0	97.2	98.7	99.1	99.3	99.5	99.5	99.6	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6829

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 YEARS MONTHS

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	≥½	≥¼	≥5/16	≥.	≥0
NO CEILING																
≥ 20000		39.2	40.5	42.3	44.4	44.9	45.2	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.8
IV 18000		48.2	49.8	52.0	54.4	54.9	55.4	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0
IV 16000		48.3	49.9	52.2	54.6	55.1	55.6	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
IV 14000		48.4	50.0	52.3	54.7	55.2	55.7	56.1	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2
IV 12000		49.3	51.0	53.2	55.7	56.2	56.7	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2
IV 10000		52.3	54.2	56.6	59.2	59.8	60.3	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9
IV 9000		56.7	59.0	61.9	64.8	65.5	66.2	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9
IV 8000		58.4	60.9	64.0	67.1	67.8	68.4	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2
IV 7000		59.5	62.0	65.2	68.4	69.1	69.8	70.5	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.8
IV 6000		61.8	64.4	67.7	71.0	71.8	72.6	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.6
IV 5000		65.6	68.4	71.9	75.5	76.4	77.2	78.0	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.3
IV 4500		69.9	72.8	76.5	80.3	81.2	82.2	83.0	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.4
IV 4000		72.0	74.9	78.7	82.6	83.5	84.5	85.4	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.7
IV 3500		74.9	78.0	81.9	86.0	87.0	88.1	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.4
IV 3000		76.4	79.5	83.5	87.7	88.7	89.8	90.7	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.1
IV 2500		78.2	81.5	85.8	90.1	91.2	92.3	93.4	93.5	93.6	93.6	93.6	93.6	93.6	93.7	93.7
IV 2000		79.2	82.6	87.1	91.6	92.7	93.9	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.3	95.3
IV 1800		80.1	83.6	88.1	92.8	94.0	95.2	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.6
IV 1500		80.4	83.9	88.5	93.1	94.3	95.5	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.9
IV 1200		81.0	84.6	89.3	94.2	95.4	96.6	97.7	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.1
IV 1000		81.5	85.1	89.9	94.8	96.1	97.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.8	98.8
IV 900		81.6	85.2	90.0	95.0	96.4	97.7	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.2
IV 800		81.6	85.2	90.1	95.1	96.4	97.7	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
IV 700		81.6	85.2	90.1	95.2	96.5	97.8	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.4
IV 600		81.6	85.2	90.1	95.2	96.6	97.9	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.5
IV 500		81.6	85.2	90.1	95.2	96.7	98.0	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7
IV 400		81.6	85.2	90.1	95.3	96.7	98.1	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.8
IV 300		81.6	85.2	90.1	95.3	96.8	98.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0
IV 200		81.6	85.2	90.1	95.3	96.8	98.1	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0
IV 100		81.6	85.2	90.1	95.3	96.8	98.1	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0
IV 0		81.6	85.2	90.1	95.3	96.8	98.1	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6725

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥1	≥¾	≥¾	≥¾	≥5/16	≥.	≥0
NO CEILING		42.0	44.0	47.0	49.5	50.4	50.8	51.3	51.4	51.4	51.5	51.5	51.5	51.6	51.6	51.6
IV 20000		48.5	51.0	54.3	57.0	57.9	58.4	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2
IV 18000		48.6	51.0	54.3	57.1	58.0	58.5	59.0	59.1	59.1	59.2	59.2	59.3	59.3	59.3	59.3
IV 16000		48.6	51.0	54.4	57.1	58.0	58.5	59.1	59.1	59.2	59.2	59.2	59.3	59.3	59.3	59.3
IV 14000		49.4	51.8	55.2	58.0	58.9	59.4	60.0	60.0	60.1	60.2	60.2	60.2	60.2	60.2	60.2
IV 12000		51.6	54.2	57.8	60.9	61.8	62.3	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1
IV 10000		56.1	59.0	62.9	66.3	67.3	67.9	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8
IV 9000		58.0	61.0	65.1	68.6	69.7	70.3	71.0	71.1	71.1	71.2	71.2	71.3	71.3	71.3	71.3
IV 8000		59.3	62.4	66.6	70.1	71.3	71.9	72.5	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.8
IV 7000		62.0	65.2	69.7	73.4	74.6	75.2	75.9	76.0	76.0	76.1	76.1	76.2	76.2	76.2	76.2
IV 6000		66.3	69.7	74.4	78.3	79.5	80.2	80.9	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2
IV 5000		70.2	73.9	78.8	83.0	84.3	85.1	85.8	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.1
IV 4500		72.1	75.8	80.0	85.1	86.5	87.2	88.0	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3
IV 4000		74.5	78.4	83.7	88.2	89.6	90.4	91.2	91.3	91.4	91.5	91.5	91.6	91.6	91.6	91.6
IV 3500		75.5	79.5	84.9	89.5	90.9	91.7	92.6	92.7	92.8	92.9	92.9	92.9	92.9	93.0	93.0
IV 3000		76.8	80.9	86.4	91.2	92.6	93.5	94.4	94.5	94.6	94.7	94.7	94.8	94.8	94.8	94.8
IV 2500		77.9	82.0	87.6	92.5	94.0	94.9	95.9	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.3
IV 2000		78.6	82.8	88.5	93.5	95.1	96.0	97.0	97.1	97.2	97.3	97.3	97.4	97.4	97.4	97.4
IV 1800		78.8	83.0	88.7	93.8	95.4	96.3	97.3	97.4	97.5	97.6	97.6	97.7	97.7	97.7	97.7
IV 1500		79.0	83.2	89.0	94.2	95.8	96.7	97.8	97.9	98.0	98.1	98.1	98.2	98.2	98.2	98.2
IV 1200		79.1	83.3	89.1	94.4	96.1	97.1	98.2	98.4	98.5	98.6	98.6	98.6	98.7	98.7	98.7
IV 1000		79.1	83.3	89.1	94.5	96.2	97.2	98.4	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8
IV 900		79.1	83.4	89.2	94.5	96.3	97.3	98.5	98.6	98.7	98.8	98.8	98.9	98.9	98.9	98.9
IV 800		79.1	83.4	89.2	94.6	96.3	97.3	98.5	98.7	98.8	98.9	98.9	99.0	99.0	99.0	99.0
IV 700		79.1	83.4	89.2	94.6	96.3	97.4	98.6	98.8	98.9	99.0	99.0	99.1	99.1	99.1	99.1
IV 600		79.1	83.4	89.2	94.6	96.3	97.4	98.6	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.2
IV 500		79.1	83.4	89.3	94.6	96.4	97.5	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.4	99.4
IV 400		79.1	83.4	89.3	94.6	96.4	97.6	99.0	99.2	99.3	99.4	99.4	99.5	99.5	99.5	99.5
IV 300		79.1	83.4	89.3	94.6	96.4	97.6	99.1	99.3	99.4	99.6	99.6	99.6	99.7	99.7	99.7
IV 200		79.1	83.4	89.3	94.6	96.4	97.6	99.1	99.3	99.5	99.6	99.7	99.7	99.7	99.8	99.8
IV 100		79.1	83.4	89.3	94.6	96.4	97.6	99.1	99.3	99.5	99.6	99.7	99.7	99.8	99.8	99.9
IV 0		79.1	83.4	89.3	94.6	96.4	97.6	99.1	99.3	99.5	99.6	99.7	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6578

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

39032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

AU
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	≥½	≥¼	≥5/16	≥	≥0
NO CEILING																
≥ 20000	40.0	42.4	45.4	48.3	48.8	49.4	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.2	50.2
IV 18000	47.9	50.6	54.2	57.7	58.3	59.1	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0
IV 16000	48.1	50.8	54.4	57.8	58.4	59.2	59.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
IV 14000	48.1	50.8	54.4	57.8	58.5	59.2	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.2	60.2
IV 12000	49.3	52.2	55.9	59.3	60.0	60.8	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 10000	52.9	56.2	60.3	64.1	64.8	65.6	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8
IV 9000	57.9	61.9	66.7	71.3	72.2	73.2	74.4	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8
IV 8000	58.5	62.6	67.5	72.3	73.3	74.3	75.5	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.9	75.9
IV 7000	60.4	64.7	69.8	74.7	75.8	76.8	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4
IV 6000	62.9	67.3	72.7	77.7	78.9	79.9	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6
IV 5000	65.5	70.3	75.9	81.1	82.3	83.4	84.7	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2
IV 4500	66.8	71.7	77.5	82.7	83.9	85.0	86.4	86.6	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.8
IV 4000	68.5	73.5	79.6	85.0	86.3	87.4	88.9	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.4
IV 3500	69.4	74.5	80.6	86.2	87.5	88.7	90.2	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.7
IV 3000	70.6	75.8	82.1	87.9	89.3	90.6	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7
IV 2500	71.6	76.9	83.5	89.5	91.1	92.3	94.0	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5
IV 2000	72.4	77.9	84.5	90.7	92.4	93.7	95.4	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0
IV 1800	72.7	78.2	84.9	91.0	92.7	94.0	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3
IV 1500	73.0	78.6	85.5	91.8	93.6	94.9	96.8	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4
IV 1200	73.2	78.8	85.8	92.2	93.9	95.3	97.2	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9
IV 1000	73.3	78.9	86.0	92.4	94.2	95.6	97.6	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 900	73.3	78.9	86.0	92.4	94.2	95.6	97.7	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4
IV 800	73.3	78.9	86.0	92.5	94.3	95.7	97.8	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6
IV 700	73.3	79.0	86.0	92.5	94.4	95.8	98.0	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8
IV 600	73.3	79.0	86.1	92.6	94.5	95.9	98.1	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9
IV 500	73.3	79.0	86.1	92.6	94.5	96.0	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
IV 400	73.3	79.0	86.1	92.7	94.6	96.1	98.4	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 300	73.3	79.0	86.1	92.7	94.7	96.2	98.6	99.2	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.7
IV 200	73.3	79.0	86.1	92.7	94.7	96.2	98.6	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8
IV 100	73.3	79.0	86.1	92.7	94.7	96.2	98.6	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8
IV C	73.3	79.0	86.1	92.7	94.7	96.2	98.6	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6794

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032

RHEIN-MAIN APT GERMANY/FRANKFURT

07-76

35

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL MONTHS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.75	≥.5	≥.25	≥.10	≥.0	≥0
NO CEILING		30.1	32.6	36.5	41.0	42.2	43.7	45.4	45.9	46.2	46.3	46.4	46.4	46.5	46.5	46.7
≥ 20000		35.9	38.9	43.4	48.7	50.0	51.9	53.9	54.6	54.8	55.0	55.1	55.1	55.2	55.3	55.4
IV 18000		35.9	38.9	43.5	48.8	50.1	52.0	54.0	54.7	54.9	55.1	55.1	55.2	55.3	55.3	55.5
IV 16000		35.9	38.9	43.5	48.8	50.1	52.0	54.0	54.7	54.9	55.1	55.1	55.2	55.3	55.3	55.5
IV 14000		36.3	39.4	44.1	49.4	50.7	52.6	54.7	55.3	55.6	55.7	55.9	55.9	55.9	56.0	56.2
IV 12000		38.1	41.4	46.5	52.1	53.6	55.5	57.7	58.4	58.7	58.8	58.9	58.9	59.0	59.1	59.2
IV 10000		41.6	45.2	51.0	57.3	58.9	60.9	63.3	64.0	64.3	64.4	64.5	64.6	64.7	64.7	64.9
IV 9000		43.5	47.2	53.2	59.7	61.4	63.6	66.0	66.8	67.1	67.2	67.3	67.3	67.4	67.5	67.7
IV 8000		45.1	49.0	55.0	61.8	63.6	65.8	68.3	69.1	69.4	69.5	69.6	69.6	69.7	69.8	70.0
IV 7000		47.3	51.3	57.5	64.3	66.2	68.5	71.0	71.8	72.1	72.3	72.4	72.4	72.5	72.6	72.8
IV 6000		50.5	54.5	61.0	68.1	70.1	72.5	75.1	75.9	76.2	76.4	76.4	76.5	76.6	76.7	76.8
IV 5000		53.1	57.4	64.3	71.9	74.1	76.6	79.3	80.2	80.5	80.7	80.7	80.8	80.9	81.0	81.2
IV 4500		54.5	59.0	66.1	73.8	76.0	78.5	81.2	82.2	82.6	82.7	82.8	82.9	83.0	83.0	83.2
IV 4000		56.8	61.4	68.8	76.9	79.3	81.7	84.4	85.5	86.0	86.1	86.2	86.2	86.3	86.4	86.6
IV 3500		58.0	62.7	70.2	78.5	80.9	83.4	86.3	87.2	87.7	87.8	87.9	87.9	88.0	88.1	88.3
IV 3000		59.6	64.4	72.0	80.6	83.1	85.6	88.7	89.6	90.1	90.2	90.3	90.3	90.4	90.5	90.7
IV 2500		60.8	65.8	73.7	82.4	84.9	87.5	90.7	91.7	92.2	92.3	92.4	92.5	92.6	92.6	92.8
IV 2000		61.9	67.0	74.9	83.7	86.4	89.0	92.2	93.2	93.7	93.9	94.0	94.0	94.1	94.2	94.4
IV 1800		62.1	67.2	75.2	84.1	86.7	89.4	92.6	93.6	94.1	94.3	94.4	94.4	94.5	94.6	94.8
IV 1500		62.4	67.6	75.6	84.6	87.4	90.1	93.4	94.4	94.9	95.1	95.1	95.2	95.3	95.4	95.6
IV 1200		62.5	67.7	75.9	85.0	87.8	90.6	94.0	95.1	95.6	95.7	95.8	95.8	96.0	96.2	96.2
IV 1000		62.5	67.7	75.9	85.2	88.1	90.9	94.4	95.4	96.0	96.1	96.2	96.3	96.4	96.5	96.6
IV 900		62.5	67.7	76.0	85.3	88.2	91.0	94.5	95.5	96.1	96.2	96.3	96.4	96.5	96.6	96.7
IV 800		62.5	67.7	76.0	85.3	88.3	91.1	94.6	95.6	96.2	96.4	96.5	96.5	96.6	96.7	96.9
IV 700		62.6	67.7	76.0	85.4	88.3	91.2	94.7	95.8	96.4	96.5	96.6	96.7	96.8	96.9	97.0
IV 600		62.6	67.8	76.1	85.6	88.5	91.4	95.0	96.1	96.7	96.8	97.0	97.0	97.1	97.2	97.4
IV 500		62.6	67.8	76.2	85.7	88.7	91.7	95.4	96.6	97.1	97.2	97.4	97.5	97.6	97.7	97.9
IV 400		62.6	67.8	76.2	85.7	88.7	91.7	95.5	96.7	97.4	97.6	97.7	97.8	97.9	98.0	98.2
IV 300		62.6	67.8	76.2	85.7	88.8	91.8	95.7	96.9	97.7	97.9	98.1	98.2	98.4	98.4	98.6
IV 200		62.6	67.8	76.2	85.7	88.8	91.8	95.7	97.0	97.7	98.1	98.2	98.5	98.7	98.7	99.1
IV 100		62.6	67.8	76.2	85.8	88.8	91.8	95.7	97.0	97.8	98.1	98.4	98.6	98.8	98.8	99.5
IV 0		62.4	67.8	76.2	85.8	88.8	91.8	95.7	97.0	97.8	98.1	98.4	98.6	98.8	98.8	99.5

TOTAL NUMBER OF OBSERVATIONS

6666

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥	≥0
NO CEILING																
IV 20000		17.7	19.3	22.1	25.4	26.6	27.9	30.2	31.2	31.8	32.1	32.2	32.3	32.5	32.6	33.1
IV 18000		21.3	23.3	26.7	30.9	32.5	34.1	36.7	37.7	38.4	38.7	38.9	39.0	39.2	39.3	39.8
IV 16000		21.4	23.3	26.7	31.0	32.5	34.2	36.8	37.8	38.5	38.8	39.0	39.1	39.3	39.4	39.9
IV 14000		21.8	23.7	27.2	31.5	33.0	34.6	37.3	38.3	39.0	39.3	39.5	39.6	39.8	39.9	40.4
IV 12000		23.5	25.6	29.3	33.7	35.3	37.0	39.7	40.8	41.4	41.8	41.9	42.0	42.3	42.4	42.9
IV 10000		25.9	28.1	32.1	36.7	38.4	40.1	42.9	44.0	44.7	45.0	45.1	45.2	45.5	45.6	46.1
IV 9000		26.7	29.0	33.1	37.8	39.5	41.4	44.2	45.3	45.9	46.3	46.4	46.5	46.8	46.9	47.4
IV 8000		27.3	29.6	33.9	38.7	40.5	42.4	45.3	46.4	47.0	47.4	47.5	47.6	47.9	48.0	48.5
IV 7000		28.8	31.2	35.6	40.6	42.4	44.4	47.4	48.5	49.2	49.5	49.7	49.8	50.0	50.2	50.7
IV 6000		31.5	34.1	38.7	43.9	45.8	47.9	51.1	52.2	52.9	53.3	53.5	53.6	53.8	54.0	54.5
IV 5000		34.5	37.5	42.3	47.9	49.9	52.1	55.3	56.4	57.2	57.6	57.8	57.9	58.2	58.3	58.8
IV 4500		36.2	39.5	44.5	50.2	52.3	54.7	58.0	59.1	59.9	60.3	60.5	60.6	60.9	61.0	61.6
IV 4000		38.7	42.1	47.7	54.0	56.3	58.8	62.2	63.4	64.3	64.6	64.8	64.9	65.2	65.3	65.9
IV 3500		40.9	44.5	50.3	57.1	59.4	62.1	65.7	66.8	67.7	68.1	68.2	68.3	68.6	68.8	69.3
IV 3000		43.7	47.4	53.6	60.7	63.1	65.9	69.7	70.9	71.8	72.2	72.4	72.5	72.8	73.0	73.5
IV 2500		45.5	49.4	56.0	63.5	66.2	69.1	73.1	74.3	75.2	75.6	75.8	76.0	76.3	76.4	77.0
IV 2000		47.5	51.7	58.9	67.0	69.7	72.8	76.9	78.1	79.1	79.5	79.7	79.8	80.1	80.3	80.8
IV 1800		48.3	52.6	60.0	68.4	71.1	74.2	78.3	79.6	80.6	81.0	81.2	81.3	81.6	81.8	82.3
IV 1500		49.2	53.8	61.8	70.7	73.6	76.7	81.0	82.3	83.3	83.7	83.9	84.1	84.4	84.5	85.1
IV 1200		49.8	54.7	62.9	72.4	75.5	78.8	83.2	84.5	85.6	86.0	86.2	86.3	86.6	86.8	87.3
IV 1000		49.9	54.8	63.3	73.1	76.2	79.5	84.0	85.4	86.4	86.9	87.1	87.2	87.6	87.7	88.3
IV 900		49.9	54.9	63.4	73.3	76.5	79.8	84.4	85.7	86.8	87.2	87.4	87.6	87.9	88.1	88.6
IV 800		49.9	54.9	63.5	73.6	76.7	80.1	84.7	86.1	87.2	87.6	87.9	88.1	88.4	88.6	89.1
IV 700		50.0	55.0	63.6	73.8	77.0	80.4	85.1	86.5	87.6	88.1	88.3	88.5	88.8	89.0	89.5
IV 600		50.0	55.0	63.6	74.0	77.2	80.7	85.5	86.9	88.1	88.6	88.8	89.0	89.3	89.5	90.0
IV 500		50.0	55.0	63.7	74.1	77.4	81.0	86.0	87.5	88.8	89.4	89.7	89.9	90.2	90.4	90.9
IV 400		50.0	55.0	63.7	74.2	77.5	81.1	86.4	88.0	89.5	90.2	90.5	90.8	91.1	91.2	91.8
IV 300		50.0	55.0	63.7	74.2	77.6	81.4	87.0	89.0	90.7	91.7	92.2	92.6	93.0	93.2	93.7
IV 200		50.0	55.0	63.7	74.2	77.6	81.4	87.1	89.2	91.0	92.1	92.3	92.6	93.8	94.1	94.9
IV 100		50.0	55.0	63.7	74.2	77.6	81.4	87.1	89.2	91.1	92.1	92.9	93.4	94.2	94.6	96.6
IV 0		50.0	55.0	63.7	74.2	77.6	81.4	87.1	89.2	91.1	92.2	92.9	93.5	94.6	95.4	100.0

TOTAL NUMBER OF OBSERVATIONS

6834

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 57-76 YEARS MONTH ALL

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	≥10	≥.	≥0
NO CEILING		14.0	15.5	17.5	20.0	20.9	21.5	22.9	23.3	23.7	23.8	23.9	23.9	24.0	24.0	24.3
≥ 20000		17.1	18.8	21.1	24.1	25.4	26.3	27.7	28.3	28.8	28.8	28.9	29.0	29.0	29.1	29.4
IV 1800		17.2	18.9	21.3	24.3	25.5	26.5	27.9	28.5	28.9	29.0	29.0	29.1	29.2	29.2	29.5
IV 1600		17.3	18.9	21.3	24.3	25.6	26.5	28.0	28.5	29.0	29.0	29.1	29.2	29.2	29.3	29.6
IV 1400		17.5	19.2	21.7	24.7	25.9	26.9	28.3	28.9	29.4	29.4	29.5	29.6	29.6	29.7	30.0
IV 1200		18.7	20.5	23.1	26.3	27.6	28.6	30.1	30.7	31.2	31.2	31.3	31.4	31.5	31.5	31.8
IV 1000		21.3	23.4	26.4	29.7	31.2	32.3	34.0	34.6	35.1	35.1	35.2	35.3	35.4	35.4	35.8
IV 900		22.4	24.6	27.7	31.2	32.7	33.8	35.6	36.3	36.7	36.8	36.8	37.0	37.0	37.1	37.4
IV 800		23.1	25.3	28.6	32.1	33.7	34.8	36.6	37.3	37.8	37.8	37.9	38.0	38.1	38.1	38.4
IV 700		24.0	26.4	29.7	33.3	35.0	36.1	38.7	38.7	39.1	39.2	39.2	39.3	39.4	39.5	39.8
IV 600		25.6	28.0	31.5	35.5	37.2	38.3	40.3	41.0	41.5	41.5	41.6	41.7	41.8	41.8	42.2
IV 500		28.1	30.6	34.5	38.9	40.6	41.9	44.0	44.8	45.3	45.3	45.4	45.5	45.6	45.6	46.0
IV 450		30.2	32.9	36.7	41.5	43.3	44.6	46.8	47.6	48.1	48.2	48.2	48.3	48.4	48.5	48.8
IV 400		33.0	36.0	40.1	45.4	47.4	48.9	51.2	52.0	52.6	52.6	52.7	52.8	52.9	52.9	53.3
IV 350		35.8	39.0	43.4	49.0	51.2	52.8	55.4	56.2	56.7	56.8	56.9	57.0	57.1	57.1	57.4
IV 300		38.9	42.4	47.3	53.5	55.8	57.6	60.5	61.3	61.9	62.0	62.1	62.2	62.3	62.3	62.6
IV 2500		41.3	45.3	50.6	57.6	60.1	62.1	65.4	66.3	66.9	67.1	67.1	67.2	67.3	67.3	67.7
IV 2000		44.3	48.4	54.1	61.8	64.5	66.8	70.4	71.4	72.0	72.1	72.2	72.3	72.4	72.4	72.8
IV 1800		45.3	49.6	55.6	63.5	66.2	68.6	72.4	73.4	74.0	74.1	74.2	74.3	74.4	74.5	74.8
IV 1500		46.8	51.3	57.9	66.3	69.1	71.7	75.7	76.8	77.5	77.6	77.8	77.9	78.0	78.0	78.3
IV 1200		47.7	52.3	59.6	69.1	72.2	75.0	79.4	80.9	81.2	81.3	81.5	81.6	81.7	81.7	82.1
IV 1000		47.9	52.8	60.2	70.2	73.4	76.5	81.2	82.4	83.1	83.3	83.4	83.5	83.5	83.7	84.0
IV 900		47.9	52.9	60.3	70.5	73.8	77.0	81.8	83.0	83.7	83.9	84.0	84.1	84.2	84.3	84.6
IV 800		48.0	53.0	60.7	71.1	74.5	77.8	83.0	84.3	85.0	85.1	85.2	85.4	85.5	85.6	85.9
IV 700		48.0	53.1	60.8	71.4	74.8	78.3	83.7	85.0	85.8	85.9	86.0	86.2	86.3	86.3	86.6
IV 600		48.1	53.2	61.0	71.7	75.2	78.8	84.5	85.9	86.7	86.9	87.0	87.2	87.3	87.3	87.6
IV 500		48.1	53.2	61.1	72.0	75.6	79.6	85.8	87.2	88.1	88.3	88.4	88.5	88.6	88.7	89.0
IV 400		48.1	53.2	61.1	72.1	75.8	80.0	86.8	88.3	89.5	89.9	90.0	90.2	90.3	90.3	90.6
IV 300		48.1	53.3	61.2	72.2	76.0	80.3	87.7	89.7	91.2	91.9	92.2	92.4	92.5	92.5	93.0
IV 200		48.1	53.3	61.2	72.2	76.0	80.3	88.0	90.3	92.5	93.5	94.0	94.4	94.9	95.1	95.8
IV 100		48.1	53.3	61.2	72.2	76.0	80.3	88.0	90.3	92.7	93.7	94.3	94.9	95.8	96.1	97.9
IV 0		48.1	53.3	61.2	72.2	76.0	80.3	88.0	90.3	92.7	93.7	94.3	95.0	96.1	96.6	100.0

TOTAL NUMBER OF OBSERVATIONS 6783

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

07-76
YEAR

DEL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
LOCALITY

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .5	≥ .5	≥ .5	≥ .5	≥ .5
NO CEILING																
≥ 20000		10.8	11.7	13.9	16.6	17.4	18.4	19.5	19.9	20.1	20.1	20.1	20.2	20.3	20.3	20.4
IV 18000		12.7	13.8	16.5	19.7	20.7	21.9	23.1	23.5	23.7	23.8	23.9	24.0	24.1	24.2	24.2
IV 16000		12.7	13.9	16.6	19.8	20.8	22.0	23.2	23.7	23.9	24.0	24.0	24.1	24.2	24.2	24.2
IV 14000		12.9	14.2	17.0	20.2	21.3	22.5	23.7	24.1	24.3	24.5	24.5	24.6	24.6	24.7	24.8
IV 12000		13.5	14.7	17.8	21.2	22.4	23.6	25.0	25.4	25.6	25.7	25.7	25.8	25.9	25.9	26.0
IV 10000		14.5	15.9	19.2	23.1	24.4	25.7	27.1	27.5	27.8	27.9	27.9	28.0	28.1	28.1	28.2
IV 9000		15.2	16.6	20.0	24.0	25.4	26.7	28.2	28.5	28.8	29.0	29.0	29.1	29.2	29.2	29.3
IV 8000		15.7	17.1	20.5	24.8	26.1	27.5	29.0	29.4	29.7	29.8	29.8	29.9	30.0	30.0	30.1
IV 7000		16.3	17.8	21.4	25.8	27.2	28.6	30.1	30.6	30.8	31.0	31.0	31.1	31.2	31.2	31.3
IV 6000		17.5	19.2	23.0	27.6	29.1	30.6	32.2	32.6	32.9	33.0	33.1	33.2	33.2	33.3	33.4
IV 5000		19.7	21.7	25.7	30.9	32.7	34.4	36.1	36.6	36.9	37.0	37.1	37.1	37.2	37.2	37.3
IV 4500		21.8	23.9	28.2	33.9	35.8	37.6	39.5	39.9	40.2	40.3	40.4	40.5	40.6	40.6	40.7
IV 4000		24.4	27.0	31.5	37.9	39.9	41.9	44.1	44.6	45.0	45.1	45.2	45.2	45.3	45.4	45.4
IV 3500		26.7	29.6	34.5	41.5	43.9	46.2	48.7	49.3	49.7	49.9	50.0	50.0	50.1	50.2	50.2
IV 3000		29.1	32.4	37.8	45.5	48.3	50.8	53.2	54.6	55.1	55.3	55.4	55.5	55.5	55.6	55.6
IV 2500		31.4	35.1	41.4	49.7	52.9	55.6	58.8	59.7	60.3	60.4	60.4	60.6	60.7	60.7	60.8
IV 2000		34.1	38.3	45.2	54.4	57.9	61.0	64.6	65.7	66.3	66.5	66.6	66.6	66.7	66.7	66.8
IV 1800		35.4	39.8	47.2	56.8	60.4	63.5	67.4	68.5	69.0	69.3	69.3	69.4	69.5	69.5	69.6
IV 1500		37.2	42.0	50.2	60.6	64.6	68.0	72.4	73.7	74.4	74.6	74.7	74.7	74.8	74.9	74.9
IV 1200		38.4	43.7	52.8	64.3	68.6	72.3	77.2	78.6	79.3	79.6	79.6	79.7	79.8	79.8	79.9
IV 1000		38.8	44.2	54.0	66.3	70.8	74.8	80.3	81.7	82.5	82.8	82.9	82.9	83.0	83.1	83.2
IV 900		38.9	44.3	54.2	66.9	71.3	75.6	81.2	82.7	83.5	83.8	83.9	84.0	84.1	84.1	84.2
IV 800		39.0	44.4	54.6	67.8	72.5	77.1	83.0	84.7	85.6	85.9	86.0	86.1	86.2	86.2	86.3
IV 700		39.0	44.5	55.1	68.7	73.7	78.6	84.9	86.6	87.6	87.9	88.0	88.1	88.2	88.3	88.3
IV 600		39.1	44.6	55.4	69.7	74.8	79.9	86.6	88.6	89.7	90.0	90.0	90.3	90.4	90.4	90.5
IV 500		39.1	44.6	55.6	70.4	75.7	81.0	88.4	90.5	91.8	92.1	92.3	92.4	92.6	92.6	92.7
IV 400		39.1	44.6	55.7	70.5	75.9	81.4	89.3	91.7	93.3	93.6	94.1	94.2	94.4	94.4	94.5
IV 300		39.1	44.6	55.7	70.6	76.0	81.7	89.9	92.6	94.7	95.3	95.7	95.9	96.2	96.2	96.3
IV 200		39.1	44.6	55.7	70.6	76.1	81.7	90.1	92.9	95.4	96.2	96.7	96.9	97.4	97.5	97.6
IV 100		39.1	44.6	55.7	70.6	76.1	81.7	90.1	92.9	95.4	96.3	96.9	97.2	98.0	98.3	99.0
IV 0		39.1	44.6	55.7	70.6	76.1	81.7	90.1	92.9	95.4	96.4	97.0	97.5	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS

7082

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

57-70
YEARS

JA
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-2000
TIME PERIOD

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0	≥0	
NO CEILING																	
≥ 20000		12.8	14.0	15.9	19.4	20.0	20.7	22.7	22.8	23.3	23.3	23.4	23.0	23.7	23.7	23.9	23.9
≥ 18000		13.6	15.1	17.2	21.0	21.6	22.3	24.9	24.9	25.3	25.3	25.7	25.7	25.8	25.9	25.9	26.0
≥ 16000		13.7	15.2	17.4	21.1	21.7	22.4	24.9	25.0	25.5	25.5	25.9	25.8	25.9	25.9	26.0	26.0
≥ 14000		13.9	15.4	17.6	21.5	22.0	22.7	25.3	25.5	25.9	25.9	25.9	26.3	26.4	26.4	26.5	26.5
≥ 12000		14.4	15.9	18.0	22.0	22.9	23.7	26.5	26.6	27.1	27.1	27.4	27.4	27.5	27.5	27.5	27.6
≥ 10000		16.6	18.5	20.8	25.1	26.0	26.8	30.0	30.3	30.7	30.7	31.1	31.1	31.2	31.2	31.3	31.3
≥ 9000		17.0	19.1	21.6	25.9	26.8	27.6	30.9	31.2	31.6	31.6	32.0	32.0	32.1	32.1	32.2	32.2
≥ 8000		17.6	19.6	22.1	26.8	27.7	28.7	32.0	32.2	32.6	32.6	33.0	33.0	33.1	33.1	33.2	33.2
≥ 7000		18.7	20.8	23.5	28.4	29.3	30.3	33.7	33.9	34.4	34.4	34.7	34.7	34.8	34.8	34.9	34.9
≥ 6000		20.8	22.4	25.8	30.7	31.8	32.9	36.6	37.0	37.7	37.7	38.0	38.0	38.1	38.1	38.2	38.2
≥ 5000		22.1	24.3	27.3	33.6	35.2	36.6	40.8	41.1	41.8	41.8	42.1	42.1	42.2	42.2	42.4	42.4
≥ 4500		24.0	26.1	29.2	35.7	37.3	39.0	43.6	43.9	44.6	44.6	45.0	45.0	45.1	45.1	45.2	45.2
≥ 4000		26.4	29.0	32.4	39.5	41.3	43.2	47.8	48.3	49.0	49.0	49.3	49.3	49.4	49.4	49.5	49.5
≥ 3500		28.1	30.8	34.6	42.2	44.1	46.0	50.9	51.4	52.1	52.1	52.4	52.4	52.5	52.5	52.6	52.6
≥ 3000		30.3	33.1	37.2	45.7	47.8	50.0	55.1	55.7	56.4	56.4	57.0	57.0	57.1	57.1	57.2	57.2
≥ 2500		33.2	36.4	41.3	51.0	53.4	55.6	60.7	61.3	62.0	62.0	62.6	62.6	62.7	62.7	62.8	62.8
≥ 2000		33.2	41.8	47.5	58.0	61.0	63.2	68.6	69.2	69.9	69.9	70.4	70.4	70.5	70.5	70.7	70.7
≥ 1800		40.2	43.8	49.9	60.7	63.8	66.1	71.6	72.1	72.8	72.8	73.4	73.4	73.5	73.5	73.6	73.6
≥ 1500		41.8	45.9	52.6	64.6	68.4	71.2	77.7	78.3	79.0	79.0	79.4	79.4	79.6	79.6	79.7	79.7
≥ 1200		42.9	47.5	54.6	67.4	71.3	74.3	81.4	82.1	82.8	82.8	83.3	83.3	83.4	83.6	83.6	83.7
≥ 1000		43.7	48.4	55.8	68.9	73.1	76.1	83.3	84.0	84.7	84.7	85.2	85.2	85.4	85.5	85.5	85.6
≥ 900		43.7	48.5	56.3	69.4	73.5	76.6	83.8	84.5	85.2	85.2	85.7	85.7	85.8	86.0	86.0	86.1
≥ 800		43.7	48.6	56.5	70.0	74.2	77.3	84.7	85.4	86.1	86.1	86.6	86.6	86.9	87.0	87.0	87.1
≥ 700		43.7	48.9	57.1	71.0	75.2	78.3	85.8	86.9	87.7	87.7	88.4	88.4	88.5	88.6	88.6	88.7
≥ 600		43.7	48.9	57.2	71.5	75.8	79.1	87.0	88.1	88.9	88.9	89.3	89.3	89.7	89.8	89.8	89.9
≥ 500		43.7	48.9	57.2	71.6	76.3	79.9	88.2	89.6	90.8	91.0	91.7	91.7	91.8	91.9	91.9	92.0
≥ 400		43.7	48.9	57.3	71.7	76.5	80.4	89.3	91.0	92.2	92.5	93.2	93.2	93.4	93.6	93.7	93.8
≥ 300		43.7	48.9	57.3	72.0	76.9	81.2	90.5	92.6	94.2	94.5	95.2	95.2	95.5	95.8	95.9	96.0
≥ 200		43.8	49.0	57.4	72.1	77.1	81.4	90.9	93.2	95.1	95.7	96.5	96.5	96.8	97.1	97.3	97.5
≥ 100		43.8	49.0	57.4	72.1	77.1	81.4	90.9	93.2	95.1	95.7	96.5	96.5	97.4	97.7	97.8	98.3
≥ 0		43.8	49.0	57.4	72.1	77.1	81.4	90.9	93.2	95.1	95.7	96.5	96.5	97.4	97.8	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS 876

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
FAFS

JA
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING		8.7	9.4	10.4	12.6	14.1	14.7	16.9	17.7	18.1	18.5	19.0	19.2	19.3	19.3	19.3
IV 20000		9.6	10.5	12.0	14.5	15.8	16.4	18.9	19.7	20.0	20.5	20.9	21.1	21.2	21.2	21.2
IV 18000		9.7	10.6	12.1	14.6	15.9	16.5	19.0	19.8	20.1	20.6	21.0	21.2	21.4	21.4	21.4
IV 16000		9.7	10.6	12.1	14.6	15.9	16.5	19.0	19.8	20.1	20.6	21.0	21.2	21.4	21.4	21.4
IV 14000		9.7	10.6	12.2	14.7	16.0	16.8	19.1	19.9	20.2	20.7	21.1	21.4	21.5	21.5	21.5
IV 12000		10.6	11.6	13.3	15.9	17.5	18.2	20.8	21.7	22.0	22.5	22.9	23.2	23.3	23.3	23.3
IV 10000		12.2	13.4	15.4	18.2	19.8	20.5	23.4	24.3	24.6	25.1	25.5	25.8	25.9	25.9	25.9
IV 9000		13.2	14.7	16.7	19.7	21.4	22.1	25.2	26.1	26.6	27.0	27.5	27.7	27.8	27.8	27.8
IV 8000		13.9	15.4	17.6	20.6	22.3	23.2	26.2	27.1	27.7	28.1	28.4	28.8	28.9	28.9	28.9
IV 7500		14.7	16.2	18.5	21.6	23.4	24.4	27.6	28.5	29.2	29.7	30.1	30.3	30.4	30.4	30.4
IV 6000		15.8	17.2	19.7	22.6	24.6	25.8	29.0	29.9	30.7	31.2	31.6	31.9	32.0	32.0	32.0
IV 5000		17.7	19.2	22.0	26.0	27.9	29.0	32.5	33.8	34.8	35.3	35.7	35.9	36.0	36.0	36.0
IV 4500		19.1	20.6	23.4	27.8	30.1	31.3	35.0	36.0	37.1	37.5	38.0	38.2	38.3	38.3	38.3
IV 4000		22.0	23.7	26.7	31.5	33.8	35.1	39.0	40.2	41.2	41.7	42.1	42.4	42.5	42.5	42.5
IV 3500		24.1	26.6	30.1	35.4	37.7	39.2	43.2	44.4	45.4	45.9	46.4	46.7	46.8	46.8	46.8
IV 3000		27.6	30.6	34.6	40.3	43.1	44.7	48.7	49.9	51.1	51.5	52.2	52.5	52.7	52.7	52.7
IV 2500		31.0	34.4	39.3	46.1	49.3	51.4	55.4	56.6	57.9	58.3	59.0	59.3	59.4	59.4	59.4
IV 2000		34.5	38.2	44.1	51.2	54.7	57.2	61.6	62.8	64.1	64.5	65.2	65.5	65.6	65.6	65.6
IV 1800		35.9	39.6	46.0	53.6	57.2	59.9	64.5	65.8	67.0	67.5	68.1	68.5	68.6	68.6	68.7
IV 1500		39.3	43.7	50.8	58.8	62.9	66.4	71.3	72.8	74.1	74.6	75.3	75.6	75.7	75.7	75.8
IV 1200		40.1	44.5	52.2	61.1	65.6	69.3	74.8	76.3	77.6	78.1	78.8	79.1	79.2	79.2	79.3
IV 1000		40.8	45.2	53.4	63.1	67.7	71.4	77.4	79.1	80.6	81.0	81.7	82.0	82.1	82.1	82.3
IV 900		40.8	45.2	53.4	63.1	67.9	71.8	77.9	79.7	81.1	81.6	82.3	82.6	82.7	82.7	82.8
IV 800		40.8	45.2	53.4	63.6	68.6	72.5	79.2	81.0	82.5	82.9	83.6	84.0	84.1	84.1	84.2
IV 700		40.8	45.5	53.6	64.2	69.2	73.2	80.5	82.4	83.8	84.3	85.1	85.4	85.5	85.5	85.8
IV 600		40.8	45.5	54.5	65.2	70.3	74.5	82.0	84.3	85.8	86.4	87.2	87.6	87.7	87.7	87.9
IV 500		40.8	45.5	54.7	65.8	71.4	75.7	83.6	86.1	87.6	88.2	89.2	89.6	89.8	89.8	90.1
IV 400		40.8	45.5	54.8	66.0	72.0	76.3	84.5	87.5	89.0	89.7	90.6	91.1	91.3	91.3	91.5
IV 300		40.8	45.5	54.8	66.3	72.5	77.2	86.3	89.6	91.3	92.0	92.9	93.4	93.7	93.7	93.9
IV 200		40.8	45.8	55.0	66.6	73.0	77.6	87.2	90.6	93.0	94.0	95.1	95.7	95.9	95.9	96.4
IV 100		40.8	45.8	55.0	66.6	73.0	77.6	87.2	90.6	93.0	94.0	95.3	95.8	96.2	96.3	97.4
IV 0		40.8	45.8	55.0	66.6	73.0	77.6	87.2	90.6	93.0	94.0	95.3	95.9	96.5	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS

885

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEAR

JA
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0000
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
NO CEILING		5.3	6.1	6.7	9.2	10.5	11.0	14.1	14.5	15.1	15.4	16.1	16.2	16.2	16.3	16.3
≥ 20000		6.1	7.2	8.2	11.2	12.6	13.4	16.9	17.5	18.2	18.6	19.2	19.3	19.6	19.7	19.9
IV ≥ 18000		6.1	7.2	8.2	11.2	12.6	13.4	16.9	17.5	18.2	18.6	19.2	19.3	19.6	19.7	19.9
IV ≥ 16000		6.1	7.2	8.2	11.2	12.6	13.4	16.9	17.5	18.2	18.6	19.2	19.3	19.6	19.7	19.9
IV ≥ 14000		6.3	7.5	8.7	11.7	13.0	13.8	17.4	18.1	18.9	19.2	19.9	20.0	20.4	20.5	20.7
IV ≥ 12000		7.0	8.4	9.6	12.8	14.3	15.1	18.8	19.5	20.2	20.6	21.4	21.4	21.7	21.8	22.0
IV ≥ 10000		7.9	9.6	11.1	14.0	16.4	17.3	21.0	21.9	22.7	23.1	23.7	23.8	24.2	24.3	24.5
IV 9000		8.1	9.8	11.4	15.4	17.0	17.9	21.6	22.6	23.4	23.7	24.4	24.5	24.9	25.0	25.2
IV 8000		8.2	10.0	11.6	15.6	17.2	18.1	21.8	22.8	23.6	24.0	24.7	25.0	25.3	25.4	25.6
IV 7000		8.9	10.8	12.4	16.4	18.0	18.9	22.6	23.6	24.4	24.9	25.8	25.0	26.4	26.5	26.8
IV 6000		10.0	12.0	13.7	18.0	19.6	20.5	24.2	25.3	26.1	26.5	27.4	27.7	28.1	28.2	28.5
IV 5000		11.3	13.9	15.9	20.6	22.4	23.3	27.7	28.9	29.7	30.1	31.2	31.4	31.9	32.1	32.3
IV 4500		13.9	16.2	18.2	23.6	25.5	26.8	31.0	32.4	33.2	33.6	34.6	34.9	35.4	35.5	35.8
IV 4000		15.3	17.7	19.8	25.8	27.8	29.1	33.7	35.2	36.0	36.4	37.5	37.7	38.2	38.4	38.6
IV 3500		17.2	19.9	22.6	28.8	30.8	32.3	37.0	38.5	39.3	39.7	40.7	40.9	41.5	41.6	41.8
IV 3000		20.9	24.2	27.4	34.0	36.0	38.0	42.7	44.7	45.4	46.0	47.0	47.4	48.0	48.1	48.5
IV 2500		24.1	27.3	30.7	38.0	40.4	42.7	47.8	49.7	50.5	51.1	52.1	52.5	53.2	53.3	53.7
IV 2000		28.0	31.5	35.4	43.5	46.7	49.2	55.0	56.9	57.9	58.5	59.5	60.0	60.5	60.7	61.1
IV 1800		29.8	34.0	38.6	47.4	50.7	54.0	60.6	62.5	63.5	64.1	65.1	65.6	66.3	66.4	66.7
IV 1500		32.1	36.7	41.8	51.2	55.1	58.7	66.5	68.6	69.6	70.2	71.2	71.7	72.3	72.4	72.8
IV 1200		33.5	38.7	44.7	54.4	58.4	62.2	71.0	73.5	74.6	75.1	76.2	76.6	77.3	77.4	77.7
IV 1000		34.2	39.5	45.8	56.1	60.1	63.7	73.1	75.6	76.7	77.4	78.4	78.9	79.5	79.6	80.0
IV 900		34.2	39.5	45.9	56.6	60.6	64.6	74.1	76.6	77.7	78.4	79.4	79.9	80.5	80.7	81.0
IV 800		34.2	39.5	46.0	57.0	61.1	65.4	75.4	77.8	79.0	79.6	80.7	81.1	81.8	81.9	82.2
IV 700		34.2	39.5	46.2	57.5	61.8	66.3	76.7	79.4	80.5	81.2	82.2	82.7	83.4	83.5	83.8
IV 600		34.2	39.5	46.5	58.2	62.4	67.0	78.2	80.9	82.2	83.1	84.4	84.8	85.6	85.7	86.1
IV 500		34.2	39.5	46.5	58.6	63.3	68.2	79.6	82.5	83.8	84.8	86.1	86.5	87.4	87.5	87.9
IV 400		34.2	39.5	46.5	59.1	63.8	68.7	80.5	83.6	85.6	86.6	88.0	88.4	89.5	89.7	90.0
IV 300		34.2	39.5	46.5	59.1	63.8	69.3	82.1	85.7	88.1	89.1	90.7	91.1	92.2	92.4	92.7
IV 200		34.2	39.6	46.6	59.2	63.9	69.4	82.9	86.7	89.3	90.3	91.9	92.4	93.6	93.7	94.1
IV 100		34.2	39.6	46.6	59.2	63.9	69.4	82.9	86.8	89.9	91.1	92.7	93.3	94.7	94.9	95.7
IV 0		34.2	39.6	46.6	59.2	63.9	69.4	82.9	86.8	89.9	91.1	92.7	93.3	95.2	95.7	100.0

TOTAL NUMBER OF OBSERVATIONS 889

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032

RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

JA

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
NO CEILING		6.4	7.0	7.5	10.0	10.9	12.3	13.7	14.2	14.8	15.6	16.1	16.1	16.5	16.5	16.6
≥ 20000		8.7	9.7	10.6	13.6	15.3	15.9	19.0	19.9	20.6	21.0	22.1	22.2	22.9	22.2	23.1
≥ 18000		8.9	9.9	10.8	14.0	15.6	17.2	19.3	20.2	21.0	21.9	22.4	22.5	23.2	23.2	23.4
≥ 16000		8.9	9.9	10.8	14.0	15.6	17.2	19.3	20.2	21.0	21.9	22.4	22.5	23.2	23.2	23.4
≥ 14000		9.3	10.4	11.4	14.5	16.2	17.7	19.9	20.8	21.5	22.4	23.2	23.1	23.8	23.8	24.0
≥ 12000		9.6	10.7	12.3	15.7	17.4	19.0	21.5	22.4	23.2	24.1	24.7	24.9	25.6	25.6	25.8
≥ 10000		10.2	11.4	13.8	17.5	19.3	21.0	23.5	24.4	25.2	25.3	26.0	27.1	27.8	27.8	28.0
≥ 9000		10.8	12.1	14.7	18.8	20.6	22.3	25.1	26.1	26.9	28.0	28.6	28.8	29.5	29.5	29.7
≥ 8000		11.8	13.1	15.7	20.1	22.0	23.7	26.5	27.5	28.2	29.4	29.9	30.1	30.8	30.8	31.0
≥ 7000		12.3	13.7	16.5	21.0	22.0	24.1	27.5	28.5	29.2	30.4	31.0	31.3	32.1	32.1	32.4
≥ 6000		13.1	14.8	17.9	22.8	25.1	26.9	29.7	30.9	31.7	32.8	33.5	33.7	34.7	34.7	34.9
≥ 5000		14.2	16.2	19.2	24.8	27.3	29.4	32.8	34.3	35.2	36.3	37.1	37.3	38.3	38.3	38.5
≥ 4500		14.6	17.2	20.6	26.3	29.0	31.3	34.8	36.3	37.2	38.3	39.1	39.4	40.4	40.4	40.6
≥ 4000		16.1	18.8	23.0	29.4	32.0	34.8	38.7	40.4	41.5	42.6	43.4	43.8	44.8	44.8	45.0
≥ 3500		17.7	20.9	25.7	32.9	35.7	38.6	42.7	44.6	46.2	47.3	48.1	48.4	49.4	49.4	49.7
≥ 3000		19.6	23.1	28.0	35.7	39.1	42.2	47.4	49.4	51.3	52.5	53.2	53.9	54.9	54.9	55.1
≥ 2500		22.5	26.3	31.9	40.7	44.5	48.0	54.1	56.3	58.5	59.6	60.5	61.0	62.1	62.1	62.3
≥ 2000		24.9	28.9	34.9	44.9	49.1	52.9	59.5	61.7	64.2	65.3	66.2	66.7	67.7	67.7	68.0
≥ 1800		25.9	29.9	35.9	46.2	50.4	54.5	61.4	63.7	66.2	67.3	68.2	68.9	69.9	69.9	70.1
≥ 1500		27.5	31.7	37.9	48.8	53.3	57.6	65.3	67.9	70.5	71.7	72.7	73.3	74.3	74.3	74.6
≥ 1200		28.8	33.6	40.4	52.3	57.0	61.5	69.8	72.8	75.6	76.7	77.7	78.3	79.4	79.4	79.6
≥ 1000		29.0	33.8	40.8	54.0	59.3	63.8	72.4	75.4	78.2	79.4	80.5	81.4	82.4	82.4	82.6
≥ 900		29.0	33.8	41.0	54.4	59.6	64.2	72.9	76.0	78.8	79.9	81.1	82.0	83.0	83.0	83.3
≥ 800		29.0	33.8	41.1	54.8	60.3	65.3	74.3	77.6	80.4	81.5	82.7	83.6	84.6	84.6	84.8
≥ 700		29.0	33.8	41.1	55.1	60.6	65.7	75.3	78.7	81.5	82.8	84.0	85.0	86.2	86.2	86.4
≥ 600		29.0	33.8	41.1	55.1	60.6	65.8	76.0	79.5	82.6	84.0	85.2	86.4	87.5	87.5	87.7
≥ 500		29.0	33.8	41.1	55.1	60.7	66.0	76.1	79.9	83.5	85.5	86.9	88.1	89.3	89.3	89.5
≥ 400		29.0	33.8	41.1	55.1	61.0	66.3	77.2	81.5	85.6	87.9	89.5	90.8	92.2	92.2	92.4
≥ 300		29.0	33.8	41.1	55.1	61.0	66.3	77.7	82.5	87.4	90.1	91.9	93.4	95.2	95.4	95.6
≥ 200		29.0	33.8	41.1	55.1	61.0	66.3	77.7	82.5	87.5	90.2	92.5	94.5	97.3	97.5	98.0
≥ 100		29.0	33.8	41.1	55.1	61.0	66.3	77.7	82.5	87.5	90.3	92.6	94.9	97.9	98.1	98.7
≥ 0		29.0	33.8	41.1	55.1	61.0	66.3	77.7	82.5	87.5	90.3	92.6	94.9	98.0	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 896

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 7-76

JA

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES:															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥¼	≥⅓	≥⅔	≥1	≥0
NO CEILING		7.6	9.2	10.1	12.5	13.1	13.8	14.0	15.6	16.2	16.2	16.5	16.5	16.5	16.5	16.5
≥ 20000		11.1	13.7	15.5	18.2	19.6	20.4	22.0	23.0	23.7	23.8	24.5	24.8	24.8	24.9	24.9
IV 18000		11.1	13.7	15.5	18.2	19.6	20.5	22.1	23.1	23.8	23.9	24.6	24.7	24.9	24.9	24.9
IV 16000		11.1	13.7	15.5	18.2	19.6	20.5	22.1	23.1	23.8	23.9	24.6	24.7	24.9	24.9	24.9
IV 14000		11.3	14.2	16.0	18.9	20.3	21.2	22.8	23.8	24.5	24.6	25.3	25.4	25.6	25.6	25.6
IV 12000		12.3	15.4	17.4	20.3	22.1	23.2	24.0	25.8	26.5	26.6	27.3	27.5	27.7	27.7	27.7
IV 10000		13.1	16.4	18.7	22.2	23.9	25.0	26.6	27.6	28.5	28.7	29.3	29.0	29.8	29.8	29.8
IV 9000		14.6	18.1	20.6	24.6	26.7	28.0	29.6	30.6	31.5	31.7	32.4	32.6	32.8	32.8	32.8
IV 8000		15.1	18.8	21.6	26.3	28.4	29.7	31.4	32.4	33.3	33.5	34.2	34.4	35.0	35.0	35.0
IV 7000		15.7	19.7	22.9	28.2	30.5	31.9	33.7	34.9	35.8	36.0	36.7	36.9	37.5	37.5	37.5
IV 6000		17.6	21.9	25.3	30.6	33.1	34.5	36.6	37.7	38.7	39.0	39.6	39.9	40.4	40.4	40.4
IV 5000		18.6	22.9	26.5	31.9	34.5	36.1	38.3	39.6	40.7	40.9	41.6	41.9	42.5	42.5	42.5
IV 4500		19.0	23.7	27.9	34.2	37.1	39.4	42.0	43.4	44.5	44.8	45.5	46.0	46.7	46.7	46.7
IV 4000		20.5	25.3	29.8	36.6	39.9	42.0	45.0	46.3	47.6	47.9	48.6	49.0	49.7	49.7	49.7
IV 3500		23.4	28.4	33.3	41.0	44.3	47.0	50.2	51.6	52.9	53.2	53.9	54.4	55.0	55.0	55.0
IV 3000		26.3	32.0	37.7	46.4	50.6	53.7	58.1	59.9	61.3	61.6	62.3	62.7	63.4	63.4	63.4
IV 2500		30.4	36.3	42.6	52.3	57.3	60.7	65.3	67.5	69.0	69.4	70.1	70.6	71.2	71.2	71.2
IV 2000		31.5	38.2	45.0	54.8	59.8	63.3	68.0	70.1	71.8	72.3	72.9	73.4	74.1	74.1	74.1
IV 1800		33.2	40.0	47.1	57.4	62.6	66.5	71.7	74.2	76.1	76.6	77.2	77.8	78.5	78.5	78.5
IV 1500		35.2	42.9	50.8	61.5	66.9	70.0	76.6	79.3	81.2	81.7	82.4	83.1	83.8	83.8	83.8
IV 1200		35.7	43.4	51.5	62.6	68.4	72.6	79.0	81.8	83.8	84.3	85.1	85.7	86.4	86.4	86.4
IV 1000		35.7	43.6	51.9	63.4	69.2	73.8	81.2	83.9	86.0	86.5	87.3	88.0	88.7	88.7	88.7
IV 900		35.7	43.6	52.1	63.8	69.8	74.5	82.2	85.3	87.5	88.3	89.1	89.9	90.6	90.6	90.6
IV 800		35.8	43.7	52.2	64.0	70.2	75.1	83.2	86.6	89.1	89.9	90.7	91.7	92.4	92.4	92.4
IV 700		35.8	43.7	52.2	64.0	70.3	75.2	83.9	87.9	91.1	92.4	93.2	94.3	95.1	95.1	95.1
IV 600		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	91.8	93.7	95.0	96.5	97.6	97.7	97.7
IV 500		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	92.0	93.8	95.4	97.2	98.6	98.8	99.0
IV 400		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	92.0	93.8	95.4	97.2	98.9	99.0	99.2
IV 300		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	92.0	93.8	95.4	97.2	98.9	99.2	99.2
IV 200		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	92.0	93.8	95.4	97.2	98.9	99.2	99.2
IV 100		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	92.0	93.8	95.4	97.2	98.9	99.2	99.2
IV 0		35.8	43.7	52.2	64.0	70.3	75.2	83.9	88.6	92.0	93.8	95.4	97.2	98.9	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 863

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERNANY/FRANKFURT 67-70 YEARS

JA MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1700 HOURS

CEILING -FEET-	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING		8.5	9.7	11.1	12.6	14.3	15.1	16.0	16.5	17.0	17.1	17.7	17.5	17.6	17.6	17.6
IV 20000		12.1	14.2	16.2	18.4	20.3	21.6	23.5	24.1	25.1	25.6	25.7	26.2	26.4	26.4	26.4
IV 18000		12.2	14.3	16.3	18.5	20.6	21.9	23.9	24.5	25.5	25.9	26.3	26.5	26.7	26.7	26.7
IV 16000		12.2	14.3	16.3	18.5	20.6	21.9	23.9	24.5	25.5	25.9	26.3	26.5	26.7	26.7	26.7
IV 14000		12.6	14.7	17.0	19.5	21.6	23.0	24.9	25.5	26.5	27.0	27.3	27.5	27.8	27.8	27.8
IV 12000		13.1	15.4	17.8	20.6	22.7	24.1	26.1	26.6	27.8	28.2	28.4	26.8	29.0	29.0	29.0
IV 10000		14.4	16.9	19.9	22.6	24.8	26.3	29.3	28.9	30.1	30.5	30.9	31.1	31.3	31.3	31.3
IV 9000		14.6	17.5	20.5	23.4	25.8	27.5	29.7	30.4	31.5	32.0	32.3	32.6	32.8	32.8	32.8
IV 8000		15.1	17.9	21.1	24.2	26.6	28.5	30.7	31.7	32.8	33.3	33.6	33.8	34.1	34.1	34.1
IV 7000		15.5	18.4	21.7	24.9	27.5	29.7	32.1	33.1	34.3	34.7	35.1	35.3	35.8	35.8	35.8
IV 6000		16.3	19.2	22.6	26.2	29.0	31.4	33.8	34.9	36.1	36.6	36.9	37.1	37.6	37.6	37.6
IV 5000		18.2	21.3	24.9	28.8	31.9	34.4	36.9	37.9	39.3	39.8	40.1	40.3	40.8	40.8	40.8
IV 4500		19.1	22.2	25.9	29.8	33.0	35.5	38.3	39.3	40.7	41.1	41.5	41.7	42.2	42.2	42.2
IV 4000		20.5	23.8	27.9	32.6	35.9	38.5	41.7	43.0	44.6	45.1	45.5	45.9	46.4	46.4	46.4
IV 3500		22.6	26.1	30.5	35.7	39.2	41.8	45.7	47.0	48.6	49.3	49.6	50.1	50.5	50.5	50.5
IV 3000		27.3	31.1	36.0	42.5	46.6	49.4	53.7	55.1	56.7	57.4	57.7	58.2	58.7	58.7	58.7
IV 2500		29.9	34.2	39.8	47.5	51.8	54.9	60.1	61.6	63.2	63.9	64.2	64.7	65.3	65.3	65.3
IV 2000		33.1	37.9	44.1	53.8	58.4	61.7	68.0	69.7	71.3	72.1	72.5	72.9	73.5	73.5	73.5
IV 1800		34.6	39.5	46.1	56.3	61.0	64.3	71.3	73.0	74.6	75.5	75.9	76.3	76.9	76.9	76.9
IV 1500		36.7	41.9	49.3	60.2	65.1	68.7	76.1	78.1	80.2	81.3	81.7	82.5	83.1	83.1	83.1
IV 1200		37.9	43.4	51.2	63.0	68.2	71.8	79.4	81.5	83.8	84.9	85.5	86.2	86.7	86.7	86.7
IV 1000		38.6	44.3	52.3	64.3	69.6	73.1	81.3	83.4	85.8	87.0	87.5	88.2	88.8	88.8	88.8
IV 900		38.7	44.5	52.5	64.5	69.8	73.4	81.7	83.9	86.3	87.4	88.0	88.7	89.3	89.3	89.3
IV 800		38.9	44.7	52.9	65.5	70.9	74.4	83.2	85.4	87.8	88.9	89.5	90.2	90.7	90.7	90.7
IV 700		38.9	44.7	53.0	65.6	71.0	74.7	83.5	86.2	88.7	89.9	90.5	91.3	91.4	91.4	91.4
IV 600		38.9	44.7	53.0	65.6	71.0	74.7	83.5	86.2	88.7	89.9	90.5	91.3	91.4	91.4	91.4
IV 500		38.9	44.7	53.0	65.6	71.1	74.9	84.2	86.9	89.6	91.1	91.7	92.5	93.5	93.6	93.6
IV 400		38.9	44.7	53.0	65.6	71.1	75.0	84.9	87.8	90.6	92.3	93.0	93.8	94.9	95.0	95.0
IV 300		38.9	44.7	53.0	65.6	71.1	75.1	85.0	87.9	91.3	93.5	94.4	96.1	97.4	97.6	97.6
IV 200		38.9	44.7	53.0	65.6	71.1	75.1	85.0	88.1	91.9	94.2	95.1	97.0	98.9	99.2	99.2
IV 100		38.9	44.7	53.0	65.6	71.1	75.1	85.0	88.1	91.9	94.3	95.2	97.1	99.0	99.3	99.3
IV 0		38.9	44.7	53.0	65.6	71.1	75.1	85.0	88.1	91.9	94.3	95.2	97.3	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 875

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 YEARS

JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-2000 HOURS U.S.T

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅓	≥⅓	≥0	≥0
NO CEILING																
IV 20000		11.6	12.6	15.2	18.2	19.2	19.9	21.2	21.8	22.1	22.1	22.1	22.2	22.2	22.2	22.6
IV 18000		13.8	15.2	18.1	21.7	22.8	23.5	24.9	25.7	26.1	26.1	26.7	26.3	26.3	26.3	26.6
IV 16000		13.8	15.2	18.1	21.7	22.8	23.5	24.9	25.7	26.1	26.1	26.7	26.3	26.3	26.3	26.6
IV 14000		14.0	15.6	18.5	22.4	23.5	24.2	25.6	26.4	26.7	26.7	26.9	27.0	27.0	27.0	27.3
IV 12000		15.2	17.0	20.0	23.8	24.9	25.6	27.1	27.9	28.2	28.2	28.7	28.4	28.4	28.4	28.8
IV 10000		16.1	17.9	21.7	26.1	27.4	28.1	29.4	30.3	30.7	30.7	30.9	30.9	30.9	30.9	31.2
IV 9000		16.3	18.3	22.2	26.9	28.2	29.0	30.4	31.3	31.7	31.7	31.9	31.9	31.9	31.9	32.2
IV 8000		16.5	18.5	22.6	27.3	28.7	29.4	31.0	31.8	32.1	32.1	32.2	32.4	32.4	32.4	32.7
IV 7000		17.3	19.3	23.4	28.3	29.7	30.7	32.4	33.1	33.5	33.5	33.6	33.7	33.7	33.7	34.0
IV 6000		18.5	21.0	25.2	30.4	31.8	32.8	34.7	35.5	36.2	36.3	36.4	36.5	36.5	36.5	36.9
IV 5000		21.2	23.5	27.8	33.6	35.1	36.2	38.1	38.9	39.6	39.8	39.9	40.0	40.0	40.0	40.3
IV 4500		23.9	26.2	30.7	36.9	38.3	39.6	41.8	42.6	43.3	43.5	43.5	43.7	43.7	43.7	44.0
IV 4000		25.8	28.3	33.0	39.6	41.1	42.5	45.2	46.0	46.6	46.9	47.7	47.1	47.1	47.1	47.4
IV 3500		27.9	30.7	36.0	42.8	44.4	45.8	49.1	50.1	50.9	51.1	51.3	51.5	51.5	51.5	51.8
IV 3000		32.3	36.2	42.1	50.0	52.0	53.7	57.1	58.1	59.0	59.3	59.7	59.8	59.8	59.8	60.1
IV 2500		36.3	39.7	46.3	55.6	57.8	57.6	63.1	64.3	65.2	65.5	65.8	66.0	66.0	66.0	66.3
IV 2000		40.9	44.8	51.9	62.7	65.5	67.8	72.2	73.4	74.3	74.6	74.9	75.1	75.1	75.1	75.4
IV 1800		42.2	46.2	53.6	64.6	67.8	70.0	74.7	75.8	76.7	77.1	77.4	77.5	77.5	77.5	77.9
IV 1500		44.7	49.3	57.1	69.2	72.7	75.3	81.1	82.2	83.1	83.3	83.8	83.9	83.9	83.9	84.3
IV 1200		45.1	49.9	57.9	70.8	74.4	77.1	83.4	84.7	85.6	86.0	86.3	86.4	86.4	86.4	86.7
IV 1000		45.2	50.2	58.9	72.6	76.3	79.0	86.1	87.5	88.4	88.8	89.1	89.2	89.2	89.2	89.6
IV 900		45.2	50.4	59.3	73.4	77.1	79.8	86.9	88.4	89.3	89.7	90.0	90.1	90.1	90.1	90.4
IV 800		45.3	50.8	60.0	74.4	78.1	80.9	88.1	89.7	90.6	90.9	91.2	91.3	91.3	91.3	91.7
IV 700		45.3	50.8	60.2	74.7	78.5	81.6	89.2	90.8	91.8	92.1	92.6	92.8	92.9	92.9	93.4
IV 600		45.3	50.8	60.2	74.7	78.5	81.6	89.2	90.8	91.8	92.1	92.6	92.8	92.9	92.9	93.4
IV 500		45.3	50.8	60.2	74.7	78.5	81.6	89.2	90.8	91.8	92.1	92.6	92.8	92.9	92.9	93.4
IV 400		45.3	50.8	60.2	74.7	78.5	81.6	89.2	90.8	91.8	92.1	92.6	92.8	92.9	92.9	93.4
IV 300		45.3	50.9	60.3	74.8	78.7	81.7	89.3	90.9	91.8	92.2	93.4	93.7	94.3	94.5	94.8
IV 200		45.3	50.9	60.3	74.8	78.7	81.7	89.3	90.9	91.8	92.2	93.4	93.7	94.3	94.5	94.8
IV 100		45.3	50.9	60.3	74.8	78.8	82.1	91.2	93.4	95.3	96.4	97.4	97.5	97.5	97.9	98.4
IV 0		45.3	50.9	60.3	74.8	78.8	82.1	91.2	93.4	95.3	96.4	97.4	97.5	97.5	97.9	98.4

TOTAL NUMBER OF OBSERVATIONS 890

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

JA

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-300
HOURS 1ST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥1	≥.5	≥.5	≥.5	≥.5	≥.5	≥.5
NO CEILING		12.0	13.0	15.0	18.5	19.2	20.8	21.5	21.7	22.0	22.2	22.4	22.6	22.6	22.7	22.7
≥ 20000		13.1	14.4	17.3	20.8	21.6	23.5	24.6	24.9	25.3	25.5	25.6	25.8	25.8	26.0	26.0
IV 18000		13.4	14.6	17.5	21.0	21.8	23.7	24.8	25.2	25.5	25.7	25.8	26.1	26.1	26.2	26.2
IV 16000		13.4	14.6	17.5	21.0	21.8	23.7	24.8	25.2	25.5	25.7	25.8	26.1	26.1	26.2	26.2
IV 14000		13.5	14.7	17.6	21.1	21.9	23.8	24.9	25.3	25.6	25.8	26.0	26.2	26.2	26.3	26.3
IV 12000		14.5	15.7	19.1	22.9	23.7	25.6	26.7	27.1	27.4	27.6	27.8	28.0	28.0	28.1	28.1
IV 3000		16.5	18.0	21.9	25.8	26.9	28.8	30.2	30.6	30.9	31.1	31.2	31.5	31.5	31.6	31.6
IV 9000		16.6	18.4	22.4	26.3	27.3	29.2	31.0	31.3	31.7	31.9	32.0	32.2	32.2	32.4	32.4
IV 8000		17.1	19.0	22.9	27.1	28.2	30.1	31.9	32.2	32.6	32.8	32.9	33.1	33.1	33.3	33.3
IV 7000		18.7	20.6	24.5	28.8	29.9	31.8	33.7	34.0	34.4	34.6	34.7	34.9	34.9	35.1	35.1
IV 6000		21.2	23.5	27.4	31.8	33.1	35.1	37.3	37.8	38.4	38.7	38.8	39.0	39.0	39.1	39.1
IV 5000		22.7	25.1	29.2	34.2	35.7	37.9	40.2	40.7	41.3	41.6	41.7	41.9	41.9	42.0	42.0
IV 4500		23.9	26.4	30.7	35.7	37.3	39.6	42.2	42.7	43.4	43.6	43.7	43.9	43.9	44.0	44.0
IV 4000		25.5	28.3	32.8	38.5	40.1	42.7	46.1	46.5	47.2	47.4	47.5	47.8	47.8	47.9	47.9
IV 3500		27.9	30.8	35.5	41.5	43.0	45.6	49.3	49.8	50.4	50.7	50.8	51.0	51.0	51.1	51.1
IV 3000		31.7	34.9	40.9	47.8	49.8	52.8	56.7	57.2	58.1	58.4	58.5	58.8	58.8	58.9	58.9
IV 2500		34.5	37.9	44.7	52.1	54.5	57.8	61.9	62.5	63.4	63.7	63.8	64.0	64.0	64.2	64.2
IV 2000		39.0	42.8	49.9	58.8	61.9	65.3	69.7	70.3	71.2	71.6	71.7	71.9	71.9	72.0	72.0
IV 1800		39.9	43.6	51.8	61.6	64.7	68.1	72.7	73.4	74.3	74.6	74.7	74.9	74.9	75.1	75.1
IV 1500		41.7	45.7	54.9	65.4	68.8	72.4	77.4	78.3	79.2	79.6	79.7	79.9	79.9	80.0	80.0
IV 1200		42.7	47.0	56.6	68.3	72.2	76.1	81.6	83.0	83.9	84.3	84.4	84.6	84.6	84.7	84.7
IV 1000		42.9	47.3	57.8	69.9	73.9	78.1	83.7	85.4	86.3	86.6	86.7	87.0	87.0	87.1	87.1
IV 900		42.9	47.6	58.3	70.7	74.7	79.0	84.7	86.4	87.3	87.6	87.8	88.0	88.0	88.1	88.1
IV 800		43.0	47.8	58.9	71.8	76.0	80.2	86.2	87.9	88.8	89.1	89.2	89.4	89.4	89.6	89.6
IV 700		43.0	47.8	59.1	72.5	76.6	80.9	87.2	89.2	90.2	90.6	90.8	91.0	91.1	91.3	91.3
IV 600		43.0	47.8	59.1	72.7	77.2	81.5	88.0	90.1	91.1	91.6	91.8	92.1	92.2	92.5	92.5
IV 500		43.0	47.8	59.1	72.8	77.4	81.7	88.7	91.0	92.1	92.6	92.8	93.1	93.6	93.8	93.8
IV 400		43.0	47.8	59.1	73.0	77.8	82.1	89.8	92.4	93.6	94.0	94.2	94.6	95.1	95.3	95.3
IV 300		43.0	47.8	59.1	73.3	78.0	82.6	90.7	93.6	94.9	95.5	95.7	96.2	96.6	96.9	96.9
IV 200		43.0	47.8	59.1	73.3	78.0	82.6	90.8	93.8	95.3	95.8	96.3	97.0	97.6	98.0	98.1
IV 100		43.0	47.8	59.1	73.3	78.0	82.6	90.8	93.8	95.3	96.0	96.4	97.1	98.1	98.4	98.7
IV 0		43.0	47.8	59.1	73.3	78.0	82.6	90.8	93.8	95.3	96.0	96.5	97.2	98.2	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 890

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

FE.
COUNTY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥1	≥½	≥½	≥½	≥5/16	≥.	≥0
NO CEILING		19.3	22.1	26.9	31.5	32.7	33.2	34.2	34.7	35.2	35.3	35.4	35.5	35.5	35.5	35.5
≥ 20000		20.7	23.9	29.1	34.7	36.0	36.5	37.7	38.2	38.8	39.0	39.0	39.1	39.1	39.1	39.5
IV 18000		20.7	23.9	29.1	34.7	36.0	36.5	37.7	38.2	38.8	39.0	39.0	39.1	39.1	39.1	39.5
IV 16000		20.7	23.9	29.1	34.7	36.0	36.5	37.7	38.2	38.8	39.0	39.0	39.1	39.1	39.1	39.5
IV 14000		21.2	24.4	29.8	35.5	36.7	37.2	38.5	39.0	39.6	39.7	39.7	39.8	39.8	39.8	40.2
IV 12000		21.4	25.1	30.7	36.3	37.7	38.2	39.5	40.0	40.6	40.7	40.7	40.9	40.9	40.9	41.2
IV 10000		22.6	26.2	32.1	38.2	39.6	40.1	41.4	41.9	42.5	42.7	42.7	42.9	42.9	42.9	43.2
IV 9000		22.4	26.6	32.8	39.1	40.5	41.0	42.2	42.7	43.4	43.6	43.6	43.7	43.7	43.7	44.1
IV 8000		23.4	27.1	33.3	39.6	41.0	41.5	42.7	43.2	43.9	44.1	44.1	44.2	44.2	44.2	44.6
IV 7000		24.7	28.4	34.8	41.4	42.7	43.2	44.6	45.1	45.9	46.1	46.1	46.2	46.2	46.2	46.6
IV 6000		26.2	30.1	36.6	43.2	44.6	45.1	46.6	47.1	48.1	48.4	48.4	48.5	48.5	48.5	48.9
IV 5000		27.7	31.8	38.8	46.0	47.4	47.9	49.4	50.0	51.0	51.3	51.3	51.4	51.4	51.4	51.9
IV 4500		31.1	35.3	42.6	51.0	52.6	53.4	55.1	55.8	56.8	57.0	57.0	57.1	57.1	57.1	57.5
IV 4000		32.7	37.5	44.7	53.8	55.5	56.3	58.1	58.8	59.8	60.0	60.0	60.2	60.2	60.2	60.5
IV 3500		35.5	40.2	47.7	57.3	59.0	59.8	62.0	62.7	63.7	63.9	63.9	64.0	64.0	64.0	64.4
IV 3000		39.0	44.2	52.4	62.5	64.5	65.3	67.9	68.8	69.8	70.1	70.1	70.2	70.2	70.2	70.6
IV 2500		41.6	47.0	56.1	66.5	69.3	70.7	73.7	74.6	75.6	75.8	75.9	75.9	75.9	75.9	76.3
IV 2000		44.1	49.7	59.0	69.9	72.9	74.3	77.4	78.3	79.3	79.6	79.6	79.7	79.7	79.7	80.1
IV 1800		45.5	51.4	60.8	72.2	75.9	77.4	80.8	81.7	82.7	83.0	83.0	83.1	83.1	83.1	83.5
IV 1500		47.0	52.9	62.7	74.9	78.8	80.5	84.5	85.5	86.5	86.7	86.7	86.8	86.8	86.8	87.2
IV 1200		47.5	53.4	63.4	76.8	80.7	82.6	87.1	88.1	89.1	89.5	89.5	89.6	89.6	89.6	90.0
IV 1000		47.5	53.3	63.8	77.0	81.7	83.7	88.6	89.6	90.6	91.0	91.0	91.1	91.1	91.1	91.5
IV 900		47.5	53.8	64.4	76.3	82.6	84.7	89.6	90.6	91.4	92.0	92.0	92.1	92.1	92.1	92.5
IV 800		47.5	53.8	64.4	76.0	82.8	85.0	89.8	91.0	92.0	92.4	92.4	92.5	92.5	92.5	92.9
IV 700		47.5	53.8	64.5	76.9	83.2	85.3	90.4	91.5	92.5	92.9	92.9	93.0	93.0	93.0	93.4
IV 600		47.5	53.8	64.7	79.1	83.5	85.6	91.0	92.1	93.2	93.6	93.6	93.7	93.7	93.7	94.1
IV 500		47.5	53.8	64.7	79.2	83.6	86.0	91.4	92.5	93.7	94.1	94.1	94.2	94.2	94.2	94.6
IV 400		47.5	53.8	64.7	79.2	83.6	85.0	91.7	92.9	94.1	94.5	94.5	94.6	94.6	94.6	95.0
IV 300		47.5	53.8	64.7	79.3	83.7	86.1	92.7	94.2	95.7	96.2	96.2	96.4	96.4	96.4	97.0
IV 200		47.5	53.8	64.7	79.3	83.7	86.1	92.9	94.5	96.0	96.7	97.7	97.2	97.2	97.5	98.0
IV 100		47.5	53.8	64.7	79.3	83.7	86.1	92.9	94.6	96.1	97.0	97.0	97.2	97.2	97.5	98.0
IV 0		47.5	53.8	64.7	79.3	83.7	86.1	92.9	94.7	96.2	97.2	97.2	97.9	97.9	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 798

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

57-76
YEARS

FE
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2300-0300
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING		16.6	19.0	23.3	28.4	29.4	29.9	31.5	32.1	32.5	32.6	32.9	32.9	33.0	33.3	
≥ 20000		18.9	21.3	26.1	31.8	33.0	33.6	35.5	36.2	36.6	36.7	36.8	37.0	37.0	37.1	37.3
IV 18000		18.9	21.3	26.1	31.8	33.0	33.6	35.5	36.2	36.6	36.7	36.8	37.0	37.0	37.1	37.3
IV 16000		18.9	21.3	26.1	31.8	33.0	33.6	35.5	36.2	36.6	36.7	36.8	37.0	37.0	37.1	37.3
IV 14000		19.0	21.5	26.2	31.9	33.1	33.7	35.6	36.4	36.7	36.8	37.0	37.1	37.1	37.2	37.5
IV 12000		19.6	22.5	27.2	32.9	34.1	34.7	36.6	37.3	37.7	37.8	38.0	38.1	38.1	38.2	38.5
IV 10000		20.8	23.9	28.8	34.5	35.9	36.5	38.6	39.3	39.8	40.0	40.1	40.2	40.2	40.3	40.6
IV 9000		21.3	24.4	29.8	35.7	37.1	37.7	39.9	40.6	41.1	41.2	41.2	41.4	41.4	41.6	41.8
IV 8000		21.5	24.6	30.0	36.0	37.3	38.0	40.1	40.8	41.3	41.4	41.4	41.7	41.7	41.8	42.1
IV 7000		22.6	25.7	31.4	37.7	39.1	39.7	41.8	42.6	42.1	43.2	43.3	43.4	43.4	43.5	43.8
IV 6000		24.8	27.9	34.4	40.9	42.3	42.9	45.0	45.8	46.3	46.3	46.7	46.8	46.8	46.9	47.1
IV 5000		27.5	30.8	38.1	45.0	46.4	47.0	49.6	50.4	50.9	51.1	51.2	51.5	51.5	51.6	51.9
IV 4500		30.1	33.7	41.6	49.1	50.5	51.4	54.0	54.7	55.2	55.5	55.6	55.6	55.8	56.0	56.2
IV 4000		32.1	36.4	44.4	52.5	54.0	55.0	57.6	58.3	58.8	59.1	59.2	59.4	59.4	59.6	59.8
IV 3500		35.2	39.6	47.8	56.0	57.6	58.6	61.2	61.9	62.4	62.7	62.8	63.0	63.0	63.2	63.4
IV 3000		39.3	43.7	52.5	60.9	62.5	63.5	66.2	67.1	67.6	67.9	68.0	68.2	68.2	68.4	68.6
IV 2500		41.1	46.2	55.5	64.6	66.6	67.9	71.3	72.3	72.8	73.1	73.2	73.4	73.4	73.6	73.8
IV 2000		43.7	49.0	58.7	69.1	71.5	72.0	77.2	78.3	78.8	79.0	79.2	79.4	79.4	79.5	79.8
IV 1800		44.0	49.4	59.1	70.1	73.0	74.8	79.4	80.5	81.0	81.3	81.4	81.6	81.6	81.8	82.0
IV 1500		45.0	50.4	60.2	72.0	75.1	77.0	81.9	82.0	83.5	83.7	83.9	84.1	84.1	84.2	84.5
IV 1200		45.9	51.0	61.5	73.6	77.0	79.0	84.0	85.1	85.7	86.0	86.1	86.4	86.4	86.5	86.7
IV 1000		46.2	52.0	62.3	74.4	78.0	80.1	85.5	86.7	87.3	87.6	87.7	88.0	88.0	88.1	88.3
IV 900		46.3	52.2	62.8	75.1	78.7	80.8	86.1	87.3	88.0	88.2	88.3	88.6	88.6	88.7	89.0
IV 800		46.3	52.2	62.9	75.4	79.0	81.1	86.7	88.1	89.0	89.2	89.5	89.7	89.7	89.8	90.1
IV 700		46.3	52.2	62.9	75.9	79.7	81.9	87.5	88.8	89.8	90.1	90.3	90.6	90.6	90.7	90.9
IV 600		46.3	52.2	62.9	75.9	79.9	82.5	88.6	90.0	91.2	91.4	91.7	91.9	91.9	92.1	92.3
IV 500		46.3	52.2	62.9	75.9	80.3	83.3	89.6	91.2	92.6	92.8	93.1	93.3	93.3	93.4	93.7
IV 400		46.3	52.2	62.9	76.2	80.8	84.4	91.3	93.1	94.4	94.7	94.9	95.2	95.2	95.3	95.5
IV 300		46.3	52.2	62.9	76.3	81.0	84.6	91.8	93.9	95.4	95.8	96.0	96.3	96.3	96.4	96.7
IV 200		46.3	52.2	62.9	76.3	81.0	84.6	91.8	93.9	95.7	96.5	96.9	97.1	97.1	97.3	97.8
IV 100		46.3	52.2	62.9	76.3	81.0	84.6	91.8	93.9	95.9	96.8	97.3	97.5	97.5	97.9	98.0
IV 0		46.3	52.2	62.9	76.3	81.0	84.6	91.8	93.9	95.9	96.8	97.2	97.5	98.1	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 806

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-70 YEARS FE. 000-0800 HOURS 15'

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥0
NO CEILING		10.0	12.4	16.1	20.5	22.1	23.5	26.9	27.3	28.3	28.4	28.5	28.7	27.8	28.0	28.8
IV 20000		11.9	14.3	18.2	23.4	25.3	26.9	30.7	31.1	32.1	32.3	32.4	32.6	32.8	32.8	32.5
IV 18000		11.9	14.3	18.2	23.4	25.3	26.9	30.7	31.1	32.1	32.3	32.4	32.6	32.8	32.8	32.8
IV 16000		11.9	14.3	18.2	23.4	25.3	26.9	30.7	31.1	32.1	32.3	32.4	32.6	32.8	32.8	32.8
IV 14000		12.0	14.5	18.3	23.5	25.5	27.1	30.9	31.4	32.4	32.5	32.6	32.9	33.0	33.0	33.0
IV 12000		12.9	15.5	19.5	25.2	27.4	29.0	32.9	33.4	34.4	34.5	34.6	34.9	35.0	35.0	35.0
IV 10000		14.1	17.1	21.4	27.6	29.9	31.5	35.7	36.3	37.5	37.6	37.7	37.9	38.2	38.2	38.2
IV 9000		14.2	17.3	21.6	28.1	30.4	32.0	36.2	36.8	37.9	38.1	38.2	38.4	38.7	38.7	38.7
IV 8000		14.5	17.6	21.9	28.3	30.7	32.3	36.6	37.3	38.4	38.6	38.7	38.9	39.2	39.2	39.2
IV 7000		15.1	18.3	22.6	29.3	31.6	33.3	37.7	38.4	39.6	39.7	39.9	40.0	40.3	40.3	40.3
IV 6000		16.1	19.4	24.0	30.8	33.1	34.7	39.3	40.0	41.2	41.4	41.5	41.8	42.0	42.0	42.0
IV 5000		18.2	22.0	26.8	34.0	36.5	38.2	42.9	43.9	45.0	45.4	45.5	45.5	46.0	46.0	46.0
IV 4500		19.9	24.2	29.0	36.7	39.3	41.2	46.2	47.2	48.3	48.7	48.8	49.1	49.3	49.3	49.3
IV 4000		23.4	27.9	33.1	41.0	43.8	45.7	51.3	52.3	53.4	53.6	53.9	54.1	54.4	54.4	54.4
IV 3500		25.1	30.0	35.5	44.0	46.7	49.1	54.6	55.6	56.9	57.2	57.4	57.6	57.8	57.8	57.8
IV 3000		27.2	32.5	38.4	47.3	50.3	53.0	59.3	60.4	61.8	62.2	62.3	62.5	62.8	62.8	62.8
IV 2500		29.7	35.5	41.9	51.3	54.4	57.7	64.6	65.9	67.4	67.9	68.0	68.2	68.5	68.5	68.5
IV 2000		31.9	38.6	45.5	56.2	59.7	63.0	70.5	71.7	73.2	73.6	73.9	74.2	74.4	74.4	74.4
IV 1800		32.6	39.4	46.6	58.0	61.6	65.1	72.8	74.3	76.0	76.6	76.8	77.0	77.3	77.3	77.3
IV 1500		33.9	41.2	48.7	60.9	64.8	68.5	76.9	78.6	80.3	81.0	81.1	81.3	81.6	81.6	81.6
IV 1200		34.5	42.0	50.3	62.9	66.9	71.1	80.0	82.0	83.8	84.4	84.5	84.8	85.0	85.0	85.0
IV 1000		34.7	42.4	50.8	63.4	67.4	71.8	81.0	83.1	84.9	85.5	85.7	85.9	86.2	86.2	86.2
IV 900		34.7	42.4	51.1	63.9	68.1	73.1	82.6	84.7	86.5	87.1	87.3	87.5	87.8	87.8	87.8
IV 800		34.7	42.4	51.1	63.9	68.2	73.3	83.1	85.4	87.3	87.9	88.0	88.3	88.5	88.5	88.5
IV 700		34.7	42.4	51.2	64.4	69.0	74.0	84.3	86.7	88.5	89.2	89.5	89.7	90.0	90.0	90.0
IV 600		34.7	42.4	51.2	64.4	69.1	74.3	85.0	87.6	89.9	90.6	90.9	91.1	91.3	91.3	91.3
IV 500		34.7	42.4	51.2	64.5	69.2	74.9	85.9	88.9	91.1	91.8	92.1	92.3	92.6	92.6	92.6
IV 400		34.7	42.4	51.2	64.5	69.2	75.0	86.7	89.6	92.0	93.2	93.4	93.9	94.2	94.2	94.2
IV 300		34.7	42.4	51.2	64.5	69.2	75.0	87.1	90.6	93.2	94.8	95.1	95.7	96.5	96.5	96.5
IV 200		34.7	42.4	51.2	64.5	69.2	75.0	87.1	90.9	93.4	95.1	95.4	96.3	97.2	97.2	97.2
IV 100		34.7	42.4	51.2	64.5	69.2	75.0	87.1	90.9	93.4	95.1	95.4	96.3	97.2	97.2	97.2
IV 0		34.7	42.4	51.2	64.5	69.2	75.0	87.1	90.9	93.4	95.4	95.8	96.7	98.1	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 809

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS LST

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥1	≥½	≥½	≥½	≥10	≥	≥0
NO CEILING		13.1	14.4	16.0	21.2	22.6	24.4	26.7	26.5	27.0	27.0	27.0	27.1	27.1	27.1	27.2
≥ 20000		16.7	18.3	20.7	27.5	29.3	31.4	33.9	34.2	34.8	34.8	34.9	34.9	34.9	34.9	35.0
≥ 18000		16.7	18.3	20.7	27.5	29.3	31.4	34.0	34.3	34.9	34.9	34.9	35.0	35.0	35.0	35.1
≥ 16000		16.7	18.3	20.7	27.6	29.5	31.6	34.2	34.4	35.0	35.0	35.0	35.1	35.1	35.1	35.3
IV 14000		17.1	18.7	21.2	28.2	30.1	32.2	34.9	35.1	35.8	35.8	35.8	35.9	35.9	35.9	36.0
IV 12000		18.1	20.4	23.1	30.6	32.5	34.7	37.4	37.6	38.2	38.2	38.2	38.4	38.4	38.4	38.5
IV 10000		18.8	21.5	24.8	33.3	35.5	37.7	40.7	41.0	41.6	41.6	41.6	41.7	41.7	41.7	41.8
IV 9000		19.2	21.9	25.4	34.0	36.4	38.6	41.6	41.8	42.5	42.5	42.5	42.6	42.6	42.6	42.7
IV 8000		19.3	22.0	25.5	34.2	36.5	38.7	42.0	42.2	42.8	42.8	42.8	42.9	42.9	42.9	43.1
IV 7000		19.6	22.4	26.0	34.9	37.4	39.6	42.9	43.3	43.9	43.9	43.9	44.1	44.1	44.1	44.2
IV 6000		20.2	23.1	27.1	36.3	38.9	41.5	44.9	45.3	45.9	45.9	45.9	46.0	46.0	46.0	46.2
IV 5000		21.9	25.0	29.2	38.6	41.2	44.3	48.0	48.6	49.4	49.4	49.4	49.5	49.5	49.5	49.6
IV 4500		22.5	25.7	30.0	39.7	42.6	45.8	49.6	50.2	51.0	51.0	51.0	51.1	51.1	51.1	51.2
IV 4000		24.9	28.6	33.4	43.8	46.9	51.0	54.8	55.6	56.3	56.4	56.4	56.6	56.6	56.6	56.7
IV 3500		26.1	30.1	35.3	46.3	49.5	53.6	57.5	58.4	59.4	59.5	59.5	59.7	59.7	59.7	59.8
IV 3000		27.6	31.9	37.9	49.6	53.1	57.3	62.1	63.2	64.4	64.5	64.5	64.6	64.6	64.6	64.7
IV 2500		30.3	35.0	42.1	54.8	59.3	64.0	68.9	70.0	71.2	71.3	71.3	71.4	71.4	71.4	71.5
IV 2000		33.0	38.0	45.5	59.5	64.2	69.1	74.3	75.5	76.7	77.1	77.1	77.2	77.2	77.2	77.4
IV 1800		33.5	38.5	46.2	60.4	65.1	69.9	75.5	76.7	78.0	78.3	78.3	78.5	78.5	78.5	78.6
IV 1500		34.4	40.2	48.6	64.1	69.1	74.3	80.9	82.3	83.5	83.9	84.0	84.2	84.2	84.2	84.3
IV 1200		34.4	40.5	49.1	64.9	69.9	75.0	83.4	84.8	86.1	86.5	86.6	86.8	86.8	86.8	86.9
IV 1000		34.9	41.0	50.0	66.7	72.0	78.1	85.8	87.3	88.6	89.1	89.2	89.4	89.4	89.4	89.5
IV 900		35.0	41.1	50.1	66.8	72.2	78.2	86.0	87.5	88.9	89.4	89.5	89.6	89.6	89.6	89.7
IV 800		35.1	41.2	50.2	67.0	72.4	78.8	86.9	88.4	89.7	90.3	90.5	90.6	90.6	90.6	90.7
IV 700		35.4	41.5	50.5	67.3	72.8	79.3	87.6	89.2	90.6	91.3	91.6	91.7	91.8	91.8	92.0
IV 600		35.6	41.7	50.9	67.7	73.1	79.7	88.6	90.2	91.6	92.5	92.6	92.7	92.8	92.8	92.9
IV 500		35.6	41.7	50.9	67.7	73.3	80.0	89.0	90.7	92.2	93.3	93.6	93.7	93.8	93.8	93.9
IV 400		35.6	41.7	50.9	67.7	73.4	80.1	89.6	91.3	92.9	94.6	95.2	95.3	95.5	95.5	95.7
IV 300		35.6	41.7	50.9	67.7	73.4	80.1	89.6	91.5	93.3	95.0	96.0	96.8	97.5	97.5	97.6
IV 200		35.6	41.7	50.9	67.7	73.4	80.1	89.6	91.5	93.4	95.3	96.8	97.5	98.5	98.6	98.9
IV 100		35.6	41.7	50.9	67.7	73.4	80.1	89.6	91.5	93.4	95.3	96.9	97.8	98.8	98.9	99.8
IV 0		35.6	41.7	50.9	67.7	73.4	80.1	89.6	91.5	93.4	95.3	96.9	97.9	99.0	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 808

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 YEARS FE 1200-1400 HOURS

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	≥.5	≥.5	≥.5	≥.5	≥.5
NO CEILING		15.8	17.5	20.7	22.5	23.7	24.1	24.7	24.7	25.0	25.0	25.0	25.0	25.0	25.0	25.0
≥ 20000		21.2	23.1	27.3	30.8	32.0	33.0	34.4	34.4	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 18000		21.5	23.4	27.6	31.1	32.3	33.3	34.7	34.7	34.9	34.9	34.9	34.9	34.9	34.9	34.9
IV 16000		21.5	23.4	27.6	31.1	32.3	33.3	34.7	34.7	34.9	34.9	34.9	34.9	34.9	34.9	34.9
IV 14000		22.0	23.9	28.1	31.6	33.3	34.0	35.4	35.4	35.7	35.7	35.7	35.7	35.7	35.7	35.7
IV 12000		23.1	25.3	29.9	34.5	35.8	36.8	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4
IV 10000		24.5	27.0	31.8	37.4	38.6	39.6	41.1	41.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4
IV 9000		25.3	27.8	32.9	38.9	40.1	41.1	42.7	42.7	43.0	43.0	43.0	43.0	43.0	43.0	43.0
IV 8000		25.7	28.2	33.4	39.6	40.9	42.0	43.7	43.7	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 7000		26.0	28.6	34.0	40.4	41.6	42.7	44.6	44.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 6000		28.4	31.2	36.8	43.4	44.6	45.7	47.7	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0
IV 5000		30.7	34.0	39.6	46.5	47.7	48.9	50.9	50.9	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 4500		31.2	34.5	40.2	47.2	48.6	49.8	51.8	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 4000		34.3	38.0	44.0	51.6	53.3	54.8	57.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 3500		38.5	42.4	48.3	55.9	57.8	59.4	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IV 3000		42.5	47.2	53.8	61.9	64.0	65.6	68.7	68.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9
IV 2500		45.6	50.7	58.0	66.2	68.6	70.2	73.5	73.8	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV 2000		48.9	54.7	62.6	71.9	74.4	76.3	79.8	80.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 1800		49.8	55.7	64.0	73.9	76.6	79.1	82.9	83.2	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 1500		50.7	57.0	66.0	76.9	80.0	83.2	87.2	87.6	88.2	88.2	88.3	88.3	88.3	88.3	88.3
IV 1200		50.8	57.3	66.6	77.9	81.1	84.8	88.9	89.6	90.6	90.7	90.8	90.8	90.8	90.8	90.8
IV 1000		50.9	57.4	67.0	79.0	82.4	86.2	90.7	91.4	92.5	92.8	93.0	93.0	93.0	93.0	93.0
IV 900		51.1	57.5	67.1	79.1	82.5	86.3	90.9	91.7	92.9	93.2	93.4	93.4	93.4	93.4	93.4
IV 800		51.2	57.6	67.2	79.3	82.6	86.5	91.3	92.2	93.5	93.8	94.0	94.0	94.0	94.0	94.0
IV 700		51.2	57.6	67.2	79.3	82.7	86.7	91.7	92.7	94.4	94.7	94.9	95.0	95.0	95.0	95.0
IV 600		51.2	57.6	67.2	79.3	82.7	86.7	91.7	92.7	94.4	94.7	94.9	95.0	95.0	95.0	95.0
IV 500		51.2	57.6	67.3	79.4	83.0	86.8	91.9	93.2	95.3	95.7	95.9	96.0	96.0	96.0	96.0
IV 400		51.2	57.6	67.3	79.4	83.0	86.8	91.9	93.4	95.9	96.3	96.6	97.1	97.3	97.3	97.3
IV 300		51.2	57.6	67.3	79.4	83.0	86.8	91.9	93.5	96.5	97.4	97.9	98.6	98.9	98.9	98.9
IV 200		51.2	57.6	67.3	79.4	83.0	86.8	91.9	93.5	96.5	97.4	97.9	98.9	99.4	99.4	99.4
IV 100		51.2	57.6	67.3	79.4	83.0	86.8	91.9	93.5	96.5	97.4	97.9	98.9	99.5	99.5	99.5
IV 0		51.2	57.6	67.3	79.4	83.0	86.8	91.9	93.5	96.5	97.4	98.0	99.3	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 805

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT (7-76)

FF
 MONTH 1503-1700

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	≥.5	≥.4	≥.3	≥0
NO CEILING		17.3	18.0	19.4	23.7	24.6	26.0	27.3	27.6	27.7	27.7	27.7	27.7	27.8	27.8	27.8
≥ 20000		23.0	24.7	26.5	32.1	33.1	35.4	37.1	37.6	37.7	37.9	37.9	37.9	38.1	38.1	38.1
IV 18000		23.1	24.8	26.6	32.3	33.4	35.6	37.3	37.8	37.9	38.2	38.2	38.2	38.3	38.3	38.3
IV 16000		23.1	24.8	26.6	32.3	33.4	35.6	37.3	37.8	37.9	38.2	38.2	38.2	38.3	38.3	38.3
IV 14000		23.6	25.3	27.1	33.0	34.2	36.6	38.4	39.1	39.3	39.6	39.6	39.6	39.7	39.7	39.7
IV 12000		25.5	27.3	29.3	36.1	37.5	39.8	41.9	42.5	42.8	43.0	43.0	43.0	43.1	43.1	43.1
IV 10000		27.1	29.0	31.1	37.9	39.3	41.7	43.9	44.5	44.7	45.0	45.0	45.0	45.1	45.1	45.1
IV 9000		27.7	29.8	32.0	38.9	40.4	42.8	45.1	45.7	46.0	46.2	46.2	46.2	46.4	46.4	46.4
IV 8000		28.2	30.4	32.8	39.8	41.3	43.6	46.0	46.6	46.8	47.1	47.1	47.1	47.2	47.2	47.2
IV 7000		28.4	30.7	33.0	40.2	41.7	44.0	46.4	47.0	47.2	47.5	47.5	47.5	47.6	47.6	47.6
IV 6000		31.4	34.1	36.7	44.3	46.0	48.3	50.9	51.7	52.0	52.3	52.3	52.3	52.4	52.4	52.4
IV 5000		34.0	36.8	39.7	48.1	49.8	52.2	54.9	55.7	56.1	56.4	56.4	56.4	56.5	56.5	56.5
IV 4500		35.8	38.7	41.7	50.2	52.0	54.5	57.2	58.1	58.5	58.7	58.7	58.7	58.8	58.8	58.8
IV 4000		40.7	43.5	46.6	55.6	57.6	60.2	63.3	64.3	64.8	65.0	65.0	65.0	65.1	65.1	65.1
IV 3500		43.4	47.0	50.3	59.6	61.6	64.3	67.4	68.4	68.9	69.1	69.1	69.1	69.2	69.2	69.2
IV 3000		46.6	50.8	54.6	64.2	66.3	69.2	72.8	73.8	74.3	74.5	74.5	74.5	74.7	74.7	74.7
IV 2500		48.7	53.5	57.6	67.7	70.1	72.9	76.9	77.9	78.4	78.6	78.6	78.6	78.7	78.7	78.7
IV 2000		51.3	56.4	61.1	72.2	74.7	77.8	82.1	83.1	83.7	83.9	83.9	83.9	84.1	84.1	84.1
IV 1800		51.9	57.2	61.9	73.3	76.1	79.6	84.1	85.0	85.7	85.9	85.9	86.0	86.2	86.2	86.2
IV 1500		52.7	58.2	63.5	75.0	78.0	82.1	87.4	88.4	89.1	89.4	89.4	89.5	89.6	89.6	89.6
IV 1200		52.9	58.6	63.9	75.8	78.7	83.7	89.4	90.5	91.2	91.5	91.5	91.6	91.7	91.7	91.7
IV 1000		52.9	58.6	63.9	76.0	79.1	84.1	90.1	91.3	92.3	92.6	92.6	92.7	92.8	92.8	92.8
IV 900		52.9	58.6	63.9	76.0	79.1	84.1	90.1	91.8	92.8	93.1	93.1	93.3	93.4	93.4	93.4
IV 800		53.0	58.7	64.0	76.1	79.2	84.3	90.9	92.1	93.2	93.4	93.4	93.7	93.8	93.8	93.8
IV 700		53.0	58.7	64.0	76.1	79.5	84.7	91.7	93.1	94.2	94.4	94.4	94.6	94.9	94.9	94.9
IV 600		53.0	58.7	64.0	76.1	79.5	84.7	91.7	93.1	94.2	94.4	94.4	94.6	94.9	94.9	94.9
IV 500		53.0	58.7	64.0	76.3	79.6	84.8	92.1	93.4	94.8	95.1	95.2	95.7	96.0	96.0	96.0
IV 400		53.0	58.7	64.0	76.3	79.6	84.8	92.1	93.4	95.2	95.4	95.7	96.2	96.5	96.5	96.5
IV 300		53.0	58.7	64.0	76.3	79.6	84.8	92.2	93.6	96.0	96.8	97.4	98.0	98.5	98.5	98.5
IV 200		53.0	58.7	64.0	76.3	79.6	84.8	92.2	93.6	96.0	96.8	97.4	98.3	98.9	98.9	98.9
IV 100		53.0	58.7	64.0	76.3	79.6	84.8	92.2	93.6	96.0	96.8	97.4	98.3	98.9	98.9	98.9
IV 0		53.0	58.7	64.0	76.3	79.6	84.8	92.2	93.6	96.0	96.8	97.4	99.1	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

RF

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING		20.9	22.0	25.7	30.9	32.5	33.1	33.9	34.1	34.2	34.4	34.7	34.2	34.7	34.2	34.4
≥ 20000		24.6	26.1	29.8	35.5	37.1	37.9	39.2	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.7
IV 18000		24.6	26.1	29.8	35.5	37.1	37.9	39.2	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.7
IV 16000		24.6	26.1	29.8	35.5	37.1	37.9	39.2	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.7
IV 14000		25.0	26.6	30.5	36.3	38.1	38.9	40.3	40.5	40.7	40.7	40.7	40.7	40.7	40.8	
IV 12000		27.2	29.3	33.5	39.4	41.2	42.0	43.4	43.6	43.8	43.8	43.8	43.8	43.8	43.8	43.9
IV 10000		28.6	31.0	35.2	41.5	43.4	44.3	45.6	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.1
IV 9000		28.8	31.3	35.5	41.8	43.8	44.6	46.1	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.6
IV 8000		29.0	31.5	35.7	42.5	44.5	45.4	46.8	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.3
IV 7000		29.8	32.3	36.8	43.8	45.9	46.7	48.2	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.7
IV 6000		31.0	33.5	38.4	45.5	47.6	48.5	49.9	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.4
IV 5000		34.7	37.5	42.6	50.4	52.5	53.5	55.0	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.5
IV 4500		38.1	41.0	46.2	54.6	57.1	58.2	59.7	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.2
IV 4000		41.4	45.0	50.3	59.1	61.9	63.2	64.6	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.1
IV 3500		44.1	48.0	53.6	62.7	65.5	66.7	68.2	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.7
IV 3000		46.2	50.6	56.7	66.1	69.2	70.6	72.1	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.7
IV 2500		48.9	53.9	60.6	71.1	74.3	75.9	77.4	77.8	77.9	77.9	77.9	77.9	77.9	77.9	78.0
IV 2000		52.2	57.5	64.6	75.4	79.0	80.6	82.2	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.8
IV 1800		53.7	58.7	65.9	76.9	80.6	82.2	83.8	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.4
IV 1500		54.8	60.6	68.2	80.0	84.1	85.7	87.3	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.3
IV 1200		55.4	61.2	69.1	81.6	86.2	88.5	90.7	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.8
IV 1000		55.7	61.6	69.6	82.4	87.0	89.6	92.2	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.6
IV 900		55.7	61.6	69.6	82.4	87.0	89.6	92.2	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.9
IV 800		55.9	61.7	69.7	82.7	87.3	90.1	93.1	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.4
IV 700		55.9	61.7	69.7	82.7	87.3	90.1	93.1	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.4
IV 600		56.0	61.8	69.8	83.1	87.6	90.7	93.8	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.6
IV 500		56.0	61.8	69.8	83.1	87.8	90.9	94.2	95.1	95.9	95.9	95.9	95.9	95.9	95.9	96.2
IV 400		56.0	61.8	69.8	83.1	87.8	91.0	94.4	95.3	96.2	96.2	96.2	96.2	96.2	96.2	96.4
IV 300		56.0	61.8	69.8	83.1	87.8	91.0	94.7	95.8	97.0	97.0	97.0	97.0	97.0	97.0	97.7
IV 200		56.0	61.8	69.8	83.1	87.8	91.0	94.8	96.2	97.7	97.7	97.7	97.7	97.7	97.7	99.0
IV 100		56.0	61.8	69.8	83.1	87.8	91.0	94.8	96.2	97.7	97.7	97.7	97.7	97.7	97.7	99.0
IV 0		56.0	61.8	69.8	83.1	87.8	91.0	94.8	96.4	98.1	98.1	98.1	98.1	98.1	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 809

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.4	≥0.3	≥0.25	≥0.2	≥0.15	≥0
NO CEILING		22.9	24.1	28.0	33.7	34.6	35.3	36.6	37.2	37.3	37.3	37.5	37.5	37.5	37.5	37.7
≥ 20000		25.1	26.9	31.2	37.0	38.1	38.7	40.3	41.1	41.2	41.4	41.4	41.4	41.4	41.4	41.6
IV 18000		25.1	26.9	31.2	37.0	38.1	38.7	40.3	41.1	41.2	41.4	41.4	41.4	41.4	41.4	41.6
IV 16000		25.1	26.9	31.2	37.0	38.1	38.7	40.3	41.1	41.2	41.4	41.4	41.4	41.4	41.4	41.6
IV 14000		25.6	27.4	31.7	37.5	38.6	39.2	40.8	41.6	41.7	41.9	41.9	41.9	41.9	41.9	42.1
IV 12000		27.3	29.5	33.8	40.1	41.2	41.9	43.5	44.3	44.4	44.6	44.6	44.6	44.6	44.6	44.8
IV 10000		28.0	30.6	35.5	42.6	43.8	44.4	46.0	46.9	47.0	47.1	47.1	47.1	47.1	47.1	47.4
IV 9000		28.6	31.3	36.7	43.9	45.2	45.8	47.5	48.5	48.6	48.7	48.7	48.7	48.7	48.7	49.0
IV 8000		28.9	31.7	37.3	44.7	45.9	46.5	48.3	49.3	49.4	49.6	49.6	49.6	49.6	49.6	49.8
IV 7000		29.5	32.3	38.1	45.4	46.8	47.4	49.2	50.3	50.4	50.6	50.6	50.6	50.6	50.6	50.8
IV 6000		31.0	34.0	39.9	47.2	48.7	49.3	51.2	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.8
IV 5000		33.3	36.4	42.7	50.3	51.9	52.5	54.6	55.7	55.8	55.9	55.9	55.9	55.9	55.9	56.2
IV 4500		36.8	40.1	46.8	55.1	56.7	57.3	59.4	60.5	60.6	60.7	60.7	60.7	60.7	60.7	61.0
IV 4000		40.0	43.5	50.3	58.6	60.6	61.2	63.3	64.4	64.5	64.6	64.6	64.6	64.6	64.6	64.9
IV 3500		42.8	46.3	53.7	62.3	64.4	65.0	67.1	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.7
IV 3000		44.8	48.2	56.3	65.1	67.3	68.1	70.5	71.6	71.7	71.8	71.8	71.8	71.8	71.8	72.1
IV 2500		47.0	50.4	58.6	68.7	71.5	72.2	74.7	75.8	75.9	76.0	76.0	76.1	76.1	76.1	76.4
IV 2000		51.2	54.8	63.9	75.0	77.8	78.8	81.5	82.7	82.9	83.0	83.0	83.1	83.1	83.1	83.4
IV 1800		52.3	55.9	65.2	77.1	80.2	81.3	84.2	85.3	85.6	85.7	85.7	85.8	85.8	85.8	86.0
IV 1500		53.0	56.6	66.8	79.2	82.3	83.5	86.4	88.4	88.7	88.9	88.9	89.0	89.0	89.0	89.2
IV 1200		53.7	57.3	68.1	81.8	84.9	86.4	90.0	91.6	91.9	92.0	92.0	92.2	92.2	92.2	92.4
IV 1000		53.9	58.1	68.8	83.0	86.2	87.8	91.3	92.9	93.3	93.4	93.4	93.5	93.5	93.5	93.8
IV 900		53.9	58.3	69.0	83.4	86.5	88.1	91.7	93.3	93.6	93.8	93.8	93.9	93.9	93.9	94.1
IV 800		53.9	58.3	69.0	83.5	86.7	88.4	92.3	93.6	94.0	94.1	94.1	94.2	94.2	94.2	94.5
IV 700		53.9	58.4	69.2	83.6	86.9	88.7	92.5	94.2	94.6	94.7	94.7	94.9	94.9	94.9	95.1
IV 600		54.0	58.5	69.3	83.7	87.0	88.9	92.8	94.5	94.9	95.0	95.0	95.1	95.1	95.1	95.3
IV 500		54.0	58.5	69.3	83.7	87.1	89.0	93.0	95.0	95.3	95.5	95.5	95.6	95.6	95.6	95.8
IV 400		54.0	58.5	69.3	83.7	87.1	89.0	93.1	95.1	95.5	95.6	95.7	95.8	95.8	95.8	96.1
IV 300		54.0	58.5	69.3	83.7	87.1	89.0	93.4	95.7	96.2	96.3	96.6	96.7	96.7	96.7	97.1
IV 200		54.0	58.5	69.3	83.7	87.1	89.0	93.4	95.8	96.8	97.4	97.7	97.8	97.9	98.2	98.8
IV 100		54.0	58.5	69.3	83.7	87.1	89.0	93.4	95.8	96.8	97.4	97.7	97.8	97.9	98.2	99.0
IV 0		54.0	58.5	69.3	83.7	87.1	89.0	93.4	95.8	96.8	97.4	97.8	98.2	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS

817

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAN APT GERMANY/FRANKFURT 07-76

YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-1200
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING		25.3	28.5	32.9	37.5	38.4	33.7	39.1	39.4	30.6	39.6	39.6	39.7	29.7	39.7	
≥ 23000		29.0	31.9	37.1	42.0	44.3	44.8	45.4	45.6	45.9	45.9	45.9	45.9	46.0	46.0	46.0
IV 18000		29.0	31.9	37.1	42.0	44.3	44.8	45.4	45.6	45.9	45.9	45.9	45.9	46.0	46.0	46.0
IV 16000		29.0	31.9	37.1	42.0	44.3	44.8	45.4	45.6	45.9	45.9	45.9	45.9	46.0	46.0	46.0
IV 14000		29.2	32.2	37.4	42.8	44.6	45.0	45.6	45.9	46.1	46.1	46.1	46.2	46.2	46.2	46.2
IV 12000		30.3	33.7	39.2	44.7	46.8	47.4	48.2	48.5	48.7	48.7	48.7	48.8	48.8	48.8	48.8
IV 10000		32.2	35.5	41.4	46.9	49.1	49.8	50.6	50.8	51.1	51.1	51.1	51.2	51.2	51.2	51.2
IV 9000		32.7	36.4	42.3	47.9	50.0	50.7	51.5	51.8	52.0	52.0	52.0	52.1	52.1	52.1	52.1
IV 8000		33.3	37.1	43.0	48.6	50.7	51.4	52.2	52.5	52.7	52.7	52.7	52.8	52.8	52.8	52.8
IV 7000		34.9	38.8	45.0	50.0	52.7	53.4	54.3	54.5	54.7	54.7	54.7	54.8	54.8	54.8	54.8
IV 6000		37.5	41.6	48.5	54.6	56.7	57.6	58.4	58.6	58.9	58.9	58.9	59.0	59.0	59.0	59.0
IV 5000		40.0	44.7	52.1	58.3	60.4	61.3	62.2	62.4	62.6	62.6	62.6	62.8	62.8	62.8	62.8
IV 4500		43.8	48.5	56.6	62.8	65.0	66.1	66.9	67.1	67.4	67.4	67.4	67.5	67.5	67.5	67.5
IV 4000		47.3	52.5	61.2	67.7	70.1	71.6	72.6	72.8	73.0	73.0	73.0	73.2	73.2	73.2	73.2
IV 3500		50.5	56.4	65.4	72.1	74.5	76.2	77.3	77.5	77.8	77.8	77.8	77.9	77.9	77.9	77.9
IV 3000		53.3	59.7	69.3	76.6	79.0	81.1	82.2	82.4	82.6	82.6	82.6	82.7	82.7	82.7	82.7
IV 2500		55.3	61.7	71.5	79.1	81.6	83.7	84.9	85.1	85.3	85.3	85.3	85.5	85.5	85.5	85.5
IV 2000		58.6	65.2	76.2	84.4	86.9	89.0	90.2	90.5	90.8	90.8	90.8	90.9	90.9	90.9	90.9
IV 1600		59.9	66.1	77.3	85.8	88.3	90.4	91.7	92.0	92.2	92.2	92.2	92.3	92.3	92.3	92.3
IV 1400		60.9	67.7	79.7	88.4	91.0	93.1	94.4	94.7	94.9	94.9	94.9	95.0	95.0	95.0	95.0
IV 1200		61.5	68.7	80.9	90.1	92.8	95.0	96.3	96.6	96.8	96.8	96.8	96.9	96.9	96.9	96.9
IV 1000		61.6	68.8	81.0	90.3	93.3	95.5	96.8	97.0	97.3	97.3	97.3	97.4	97.4	97.4	97.4
IV 900		61.6	68.8	81.0	90.3	93.5	95.7	97.0	97.3	97.5	97.5	97.5	97.6	97.6	97.6	97.6
IV 800		61.6	68.9	81.1	90.4	93.9	96.2	97.6	97.9	98.1	98.1	98.1	98.2	98.2	98.2	98.2
IV 700		61.6	68.9	81.1	90.4	93.9	96.2	97.6	97.9	98.1	98.1	98.1	98.2	98.2	98.2	98.2
IV 600		61.6	68.9	81.1	90.5	94.0	96.5	98.1	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.7
IV 500		61.6	68.9	81.2	90.6	94.2	96.7	98.3	98.5	98.8	98.8	98.8	98.9	98.9	98.9	98.9
IV 400		61.6	68.9	81.2	90.6	94.2	96.8	98.6	98.8	99.1	99.1	99.1	99.2	99.2	99.2	99.2
IV 300		61.6	68.9	81.2	91.0	94.4	97.0	98.8	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
IV 200		61.6	68.9	81.2	91.0	94.4	97.0	98.8	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
IV 100		61.6	68.9	81.2	91.0	94.4	97.0	98.8	99.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6
IV "		61.6	68.9	81.2	91.0	94.4	97.0	98.8	99.2	99.4	99.4	99.4	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 346

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHEP SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 57-76 YEARS

19A,1

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500 HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	>10	≥ 10	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		22.2	25.2	28.2	34.5	37.0	38.0	39.0	39.1	39.3	39.3	39.3	39.4	39.4	39.6	39.7
≥ 20000		24.0	27.8	31.5	38.6	41.5	42.7	43.8	43.9	44.2	44.2	44.2	44.3	44.3	44.4	44.5
IV 18000		24.0	27.0	31.5	38.6	41.5	42.7	43.8	43.9	44.2	44.2	44.2	44.3	44.3	44.4	44.5
IV 16000		24.1	27.9	31.7	38.8	41.6	42.8	43.9	44.0	44.3	44.3	44.2	44.4	44.4	44.5	44.6
IV 14000		24.5	28.3	32.1	39.2	42.1	43.2	44.4	44.5	44.7	44.7	44.7	44.8	44.8	45.0	45.1
IV 12000		25.7	29.6	33.7	40.8	43.8	45.0	46.1	46.2	46.4	46.4	46.4	46.6	46.6	46.7	46.8
IV 10000		27.5	31.5	36.0	43.2	46.3	47.7	49.1	49.2	49.4	49.4	49.4	49.5	49.5	49.7	49.8
IV 9000		28.4	32.6	37.3	44.5	47.6	49.1	50.5	50.6	50.8	50.3	50.8	50.9	50.9	51.0	51.1
IV 8000		29.2	33.5	38.2	45.9	49.0	50.5	51.8	51.9	52.2	52.2	52.2	52.3	52.3	52.4	52.5
IV 7000		30.4	34.6	39.6	47.4	50.6	52.1	53.6	53.7	53.9	53.9	53.9	54.0	54.0	54.1	54.2
IV 6000		33.0	37.4	42.3	50.8	54.1	55.6	57.1	57.3	57.6	57.6	57.6	57.7	57.7	57.8	57.9
IV 5000		35.8	40.3	45.5	54.4	57.8	59.4	61.0	61.2	61.5	61.5	61.5	61.6	61.6	61.7	61.8
IV 4500		38.2	42.7	48.1	57.0	60.4	62.0	63.6	63.9	64.1	64.1	64.2	64.2	64.2	64.3	64.4
IV 4000		40.6	45.8	51.6	61.1	64.6	66.3	68.0	68.2	68.5	68.5	68.5	68.6	68.6	68.7	68.8
IV 3500		43.0	48.5	55.2	65.0	68.6	70.3	72.0	72.2	72.5	72.5	72.5	72.6	72.6	72.7	72.8
IV 3000		45.3	51.3	58.5	69.7	72.5	74.4	76.3	76.5	76.7	76.7	76.7	76.8	76.8	76.9	77.1
IV 2500		47.5	53.4	62.0	72.4	76.5	78.8	80.7	81.0	81.2	81.2	81.2	81.3	81.3	81.4	81.5
IV 2000		49.8	56.2	66.1	76.9	81.2	83.7	85.9	86.1	86.4	86.4	86.4	86.5	86.5	86.6	86.7
IV 1800		51.3	57.9	68.0	79.2	83.5	86.0	88.2	88.4	88.6	88.6	88.6	88.8	88.8	88.9	89.0
IV 1500		53.4	60.1	70.4	82.3	86.9	89.6	91.7	92.0	92.2	92.2	92.2	92.3	92.3	92.4	2.5
IV 1200		54.2	61.5	72.6	84.9	89.6	92.2	94.4	94.8	95.1	95.1	95.1	95.2	95.2	95.3	95.4
IV 1000		54.2	61.6	73.1	85.4	90.5	93.1	95.6	95.9	96.1	96.1	96.1	96.2	96.2	96.3	96.4
IV 900		54.2	61.6	73.2	85.7	90.8	93.5	96.0	96.2	96.4	96.4	96.4	96.6	96.6	96.7	96.8
IV 800		54.2	61.6	73.2	85.9	91.1	93.9	96.6	96.8	97.0	97.0	97.0	97.1	97.1	97.2	97.4
IV 700		54.2	61.6	73.2	86.1	91.4	94.4	97.1	97.5	97.7	97.7	97.7	97.8	97.8	97.9	98.1
IV 600		54.2	61.6	73.2	86.2	91.5	94.7	97.5	97.8	98.2	98.2	98.2	98.3	98.3	98.4	98.5
IV 500		54.2	61.6	73.2	86.2	91.5	94.8	97.6	97.9	98.3	98.3	98.3	98.4	98.4	98.5	98.6
IV 400		54.2	61.6	73.2	86.5	92.0	95.4	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	99.7
IV 300		54.2	61.6	73.2	86.5	92.0	95.4	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	99.7
IV 200		54.2	61.6	73.2	86.5	92.0	95.4	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	99.7
IV 100		54.2	61.6	73.2	86.5	92.0	95.4	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	99.7
IV 0		54.2	61.6	73.2	86.5	92.0	95.4	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 872

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

11A
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-2300
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		13.4	16.0	19.1	25.3	28.0	27.5	37.7	33.5	34.0	34.1	34.3	34.3	34.3	34.3	34.4
≥ 2000		14.0	18.2	23.2	30.9	37.7	35.5	39.8	40.8	41.4	41.5	41.7	41.7	41.8	41.8	42.1
IV 18000		14.8	18.2	23.3	31.0	33.9	35.7	39.9	40.9	41.5	41.6	41.8	41.8	42.0	42.0	42.2
IV 16000		14.8	18.2	23.3	31.0	33.9	35.7	39.9	40.9	41.5	41.6	41.8	41.8	42.0	42.0	42.2
IV 14000		14.8	18.4	23.6	31.6	34.5	36.3	40.6	41.6	42.2	42.3	42.5	42.5	42.5	42.6	42.9
IV 12000		16.1	19.9	25.8	34.6	37.6	39.5	43.8	44.8	45.3	45.4	45.7	45.7	45.8	45.9	46.0
IV 10000		17.8	21.7	28.0	37.9	41.1	43.2	48.3	49.3	49.8	49.9	50.2	50.2	50.3	50.3	50.5
IV 9000		18.0	22.0	28.5	38.0	42.0	44.1	49.5	50.5	51.1	51.2	51.4	51.4	51.5	51.5	51.7
IV 8000		18.7	22.7	29.1	39.6	42.7	44.9	50.3	51.3	51.9	52.0	52.2	52.2	52.3	52.3	52.5
IV 7000		18.9	22.9	29.5	40.0	43.2	45.3	50.7	51.7	52.4	52.6	52.9	52.9	53.0	53.0	53.2
IV 6000		20.2	24.6	31.5	42.2	45.3	47.6	53.0	54.0	54.8	55.0	55.2	55.2	55.3	55.3	55.6
IV 5000		21.8	27.1	34.6	46.1	49.5	52.3	57.8	58.8	59.6	59.8	60.1	60.1	60.2	60.2	60.4
IV 4500		23.6	29.1	37.0	49.0	52.4	55.2	60.7	62.0	62.8	63.0	63.2	63.2	63.3	63.3	63.6
IV 4000		25.3	31.0	39.1	52.9	56.5	59.4	65.0	66.4	67.2	67.4	67.6	67.6	67.7	67.7	67.9
IV 3500		27.1	33.0	41.4	55.8	59.8	62.9	68.8	70.0	70.8	71.0	71.2	71.2	71.3	71.3	71.5
IV 3000		29.1	35.0	44.4	59.2	63.6	66.7	72.9	74.2	75.0	75.3	75.5	75.5	75.6	75.6	75.8
IV 2500		30.6	36.8	46.7	62.2	66.9	70.1	76.9	78.5	79.3	79.6	79.9	79.9	80.0	80.0	80.2
IV 2000		32.7	39.0	49.6	65.9	71.0	74.6	82.7	84.4	85.3	85.6	85.8	85.8	85.9	85.9	86.2
IV 1800		34.1	40.5	51.2	67.7	72.9	76.6	84.8	86.6	87.6	88.0	88.2	88.2	88.3	88.3	88.5
IV 1500		35.2	42.0	53.2	70.1	75.3	79.1	87.6	89.4	90.6	90.9	91.1	91.1	91.2	91.2	91.5
IV 1200		36.0	42.9	54.2	71.4	76.6	80.5	89.4	91.3	92.7	93.1	93.4	93.4	93.5	93.5	93.7
IV 1000		36.0	42.9	54.3	72.0	77.2	81.3	90.6	92.7	94.2	94.7	94.9	94.9	95.1	95.1	95.3
IV 900		36.0	42.9	54.3	72.0	77.3	81.6	90.8	92.9	94.4	94.9	95.2	95.2	95.3	95.3	95.5
IV 800		36.0	43.0	54.4	72.4	77.8	82.3	91.8	94.0	95.5	96.2	96.4	96.4	96.5	96.5	96.7
IV 700		36.0	43.0	54.4	72.4	77.8	82.5	91.9	94.2	95.7	96.4	96.6	96.6	96.7	96.7	97.0
IV 600		36.0	43.0	54.4	72.7	78.1	82.8	92.4	94.7	96.3	97.1	97.3	97.4	97.5	97.5	97.8
IV 500		36.0	43.0	54.4	72.7	78.1	82.8	92.5	94.8	96.6	97.4	97.6	97.6	97.8	97.9	98.1
IV 400		36.0	43.0	54.4	72.7	78.1	82.8	92.5	94.9	97.1	97.9	98.2	98.3	98.4	98.4	98.7
IV 300		36.0	43.0	54.4	72.7	78.1	82.8	92.5	94.9	97.1	98.0	98.4	98.5	98.7	98.7	98.9
IV 200		36.0	43.0	54.4	72.7	78.1	82.8	92.5	94.9	97.1	98.1	98.5	98.7	98.9	98.9	99.1
IV 100		36.0	43.0	54.4	72.7	78.1	82.8	92.5	94.9	97.1	98.1	98.5	98.7	99.0	99.1	99.7
IV 0		36.0	43.0	54.4	72.7	78.1	82.8	92.5	94.9	97.1	98.1	98.7	98.8	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 889

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

YEAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1990-100
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥1/2	≥1/2	≥0
NO CEILING		19.4	22.3	26.4	32.8	34.3	35.7	36.8	36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 20000		24.5	27.9	33.3	40.8	42.6	44.1	45.5	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 18000		24.5	28.1	32.9	41.3	43.1	44.6	46.1	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 16000		24.5	28.1	33.9	41.3	43.1	44.6	46.1	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV 14000		24.8	28.7	34.4	42.1	43.9	45.4	46.9	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2
IV 12000		25.5	29.4	35.6	44.3	46.3	47.8	49.3	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 10000		27.1	31.1	38.1	47.3	49.6	51.2	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
IV 9000		27.4	31.5	38.4	48.0	50.3	52.0	53.6	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 8000		27.9	31.9	39.0	48.6	50.8	52.5	54.1	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 7000		28.1	32.4	39.5	49.5	51.9	53.6	55.2	55.4	55.6	55.7	55.7	55.7	55.7	55.7	55.7
IV 6000		28.9	33.4	40.7	50.8	53.3	55.0	56.7	57.0	57.3	57.4	57.4	57.4	57.4	57.4	57.4
IV 5000		30.8	35.6	43.4	54.1	56.7	58.4	60.2	60.5	60.8	60.9	60.9	60.9	60.9	60.9	60.9
IV 4500		32.0	36.9	45.3	56.3	58.9	60.8	62.6	62.9	63.2	63.3	63.3	63.3	63.3	63.3	63.3
IV 4000		35.4	40.8	49.5	61.4	64.2	66.3	68.3	68.5	68.9	69.0	69.0	69.0	69.0	69.0	69.0
IV 3500		37.6	43.4	52.3	65.2	68.1	70.1	72.1	72.4	72.7	72.8	72.8	72.8	72.8	72.8	72.8
IV 3000		40.9	46.9	55.9	69.5	72.4	74.6	76.7	76.9	77.2	77.3	77.3	77.3	77.3	77.3	77.3
IV 2500		44.6	51.0	60.6	75.3	78.3	80.9	83.1	83.4	83.8	83.9	83.9	83.9	83.9	83.9	83.9
IV 2000		47.1	53.6	63.6	79.4	82.7	86.0	88.3	88.6	89.2	89.4	89.4	89.4	89.4	89.4	89.4
IV 1800		47.8	54.2	64.3	80.3	83.7	87.0	89.4	89.6	90.3	90.4	90.4	90.4	90.4	90.4	90.4
IV 1500		48.8	55.4	66.1	82.6	86.2	89.5	91.8	92.1	92.8	92.9	92.9	92.9	92.9	92.9	92.9
IV 1200		48.9	55.6	66.4	83.0	86.9	90.3	92.9	93.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3
IV 1000		49.0	55.8	66.6	83.5	87.4	90.9	93.8	94.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2
IV 900		49.2	55.9	66.7	83.6	87.8	91.3	94.1	94.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6
IV 800		49.4	56.1	66.8	83.9	88.3	91.8	95.1	95.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7
IV 700		49.3	56.1	66.9	84.0	88.6	92.1	95.6	95.9	97.1	97.3	97.3	97.3	97.3	97.3	97.3
IV 600		49.3	56.1	67.0	84.3	88.8	92.4	96.0	96.6	98.0	98.2	98.2	98.2	98.2	98.2	98.2
IV 500		49.3	56.1	67.0	84.3	88.8	92.4	96.0	96.7	98.2	98.6	98.6	98.6	98.6	98.6	98.6
IV 400		49.3	56.1	67.0	84.4	88.9	92.5	96.4	97.1	98.5	99.1	99.1	99.1	99.1	99.1	99.1
IV 300		49.3	56.1	67.0	84.4	88.9	92.5	96.4	97.1	98.6	99.3	99.7	99.7	99.7	99.7	99.7
IV 200		49.3	56.1	67.0	84.4	88.9	92.5	96.4	97.1	98.6	99.3	99.7	99.7	99.7	99.8	99.8
IV 100		49.3	56.1	67.0	84.4	88.9	92.5	96.4	97.1	98.6	99.3	99.7	99.7	99.7	99.8	99.8
IV 0		49.3	56.1	67.0	84.4	88.9	92.5	96.4	97.1	98.6	99.3	99.7	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 883

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRAIKFUPT 07-76

120J-1400
HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET:	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	≥	≥0
NO CEILING																
IV 20000		26.2	28.8	31.2	33.3	33.8	34.2	34.2	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
IV 18000		32.9	36.4	40.0	42.9	43.8	44.5	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 16000		32.9	36.4	40.0	42.9	43.8	44.5	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 14000		33.1	36.8	40.3	43.2	44.2	44.8	45.1	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IV 12000		35.4	39.0	42.8	45.9	47.1	47.8	48.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 10000		37.0	40.9	44.7	48.2	49.5	50.2	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
IV 9000		37.7	41.9	45.7	49.4	50.7	51.4	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IV 8000		37.9	42.2	46.1	49.9	51.3	52.0	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 7000		38.3	42.9	46.9	50.7	52.1	52.8	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 6000		39.4	44.0	48.0	51.9	53.3	54.0	54.4	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 5000		43.2	48.2	52.4	56.4	57.9	58.6	58.9	59.0	59.1	59.3	59.3	59.3	59.3	59.3	59.3
IV 4500		44.9	50.3	53.1	59.0	60.5	61.3	61.6	61.7	61.9	62.0	62.0	62.0	62.0	62.0	62.0
IV 4000		49.2	55.2	60.4	64.5	65.9	66.7	67.2	67.3	67.4	67.5	67.5	67.5	67.5	67.5	67.5
IV 3500		53.8	60.3	66.7	71.3	72.8	73.6	74.0	74.1	74.2	74.3	74.3	74.3	74.3	74.3	74.3
IV 3000		58.9	66.1	73.2	78.3	79.8	80.6	81.0	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4
IV 2500		63.3	70.9	78.8	85.0	86.7	87.5	88.2	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5
IV 2000		65.8	73.6	82.0	88.5	90.5	91.4	92.1	92.2	92.4	92.5	92.5	92.5	92.5	92.5	92.5
IV 1800		66.3	74.0	82.5	89.4	91.4	92.3	93.1	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5
IV 1500		67.4	75.5	84.1	91.4	93.6	94.8	95.7	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1
IV 1200		67.4	75.6	84.4	91.9	94.2	95.0	96.6	96.7	97.0	97.2	97.2	97.2	97.2	97.2	97.2
IV 1000		67.4	75.6	84.4	92.4	94.8	95.1	97.2	97.4	97.8	98.0	98.0	98.0	98.0	98.0	98.0
IV 900		67.4	75.7	84.7	92.5	94.9	96.3	97.4	97.6	98.1	98.2	98.2	98.2	98.2	98.2	98.2
IV 800		67.4	75.7	84.8	92.7	95.2	96.7	97.8	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6
IV 700		67.4	75.7	84.9	92.8	95.6	97.0	98.5	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3
IV 600		67.4	75.7	84.9	92.8	95.6	97.0	98.6	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 500		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7
IV 400		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IV 300		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.7	99.9	99.9	99.9	99.9	99.9	99.9
IV 200		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.7	99.9	99.9	99.9	99.9	99.9	99.9
IV 100		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.7	99.9	99.9	99.9	99.9	99.9	99.9
IV 0		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.7	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 881

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

1500-1700 HOURS U.S.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥	≥½	≥5/16	≥¼	≥0
NO CEILING		31.6	33.3	34.2	35.5	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
≥ 20000		42.1	44.4	46.2	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 18000		42.6	44.9	46.6	49.0	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 16000		42.6	44.9	46.6	49.0	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 14000		43.7	46.0	47.8	50.4	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
IV 12000		45.5	48.0	49.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 10000		48.2	50.7	52.5	55.8	56.4	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
IV 9000		50.2	52.7	54.9	58.3	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IV 8000		51.4	53.0	55.2	58.7	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
IV 7000		51.2	53.8	56.1	59.6	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
IV 6000		54.0	56.9	59.2	62.9	63.6	63.6	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 5000		57.1	60.3	62.3	66.5	67.4	67.4	67.4	67.6	67.9	68.0	68.0	68.0	68.0	68.0	68.0
IV 4500		58.3	61.8	64.3	68.3	69.2	69.2	69.2	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8
IV 4000		64.4	68.2	71.0	76.1	77.0	77.0	77.0	77.5	77.7	77.8	77.8	77.8	77.8	77.8	77.8
IV 3500		66.9	71.1	74.1	79.8	80.7	80.7	80.7	81.2	81.4	81.5	81.5	81.5	81.5	81.5	81.5
IV 3000		70.6	75.1	78.4	84.7	85.8	85.8	85.8	86.3	86.6	86.7	86.7	86.7	86.7	86.7	86.7
IV 2500		72.6	77.4	81.3	88.3	89.4	89.7	89.9	90.4	90.7	90.8	90.8	90.8	90.8	90.8	90.8
IV 2000		74.4	79.6	83.8	91.0	92.8	93.1	93.3	93.8	94.1	94.3	94.3	94.3	94.3	94.3	94.3
IV 1800		74.7	80.1	84.4	91.7	93.5	93.8	94.0	94.5	94.8	94.9	94.9	94.9	94.9	94.9	94.9
IV 1500		76.0	81.5	85.9	93.2	95.1	95.4	95.8	96.2	96.6	96.8	96.8	96.8	96.8	96.8	96.8
IV 1200		76.2	82.0	86.5	94.0	95.9	96.2	96.6	97.0	97.4	97.6	97.6	97.6	97.6	97.6	97.6
IV 1000		76.2	82.0	86.5	94.0	96.6	96.9	97.5	97.9	98.3	98.6	98.6	98.6	98.6	98.6	98.6
IV 900		76.2	82.0	86.5	94.4	96.7	97.1	97.7	98.2	98.5	98.9	98.9	98.9	98.9	98.9	98.9
IV 800		76.2	82.0	86.5	94.6	96.9	97.4	98.0	98.5	98.9	99.2	99.2	99.2	99.2	99.2	99.2
IV 700		76.2	82.0	86.5	94.7	97.0	97.6	98.3	98.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4
IV 600		76.2	82.0	86.5	94.7	97.1	97.7	98.4	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5
IV 500		76.2	82.0	86.5	94.7	97.1	97.7	98.4	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7
IV 400		76.2	82.0	86.5	94.7	97.1	97.7	98.4	99.0	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 300		76.2	82.0	86.5	94.7	97.1	97.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		76.2	82.0	86.5	94.7	97.1	97.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		76.2	82.0	86.5	94.7	97.1	97.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		76.2	82.0	86.5	94.7	97.1	97.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 871

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEAR

1A
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS LST

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1½	≥1	≥¾	≥¾	≥½	≥¼	≥0	≥0
NO CEILING		33.3	35.6	38.1	39.8	39.8	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
≥ 20000		39.7	42.5	45.8	48.5	49.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 18000		39.3	42.7	46.1	48.7	49.2	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
IV 16000		39.8	42.7	46.1	48.7	49.2	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
IV 14000		40.6	43.6	47.0	49.7	50.1	50.5	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 12000		41.9	44.9	48.5	51.4	51.8	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 10000		43.9	47.2	51.2	54.7	55.2	55.5	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 9000		44.3	47.7	51.7	55.7	56.1	56.5	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
IV 8000		44.5	48.2	52.2	56.1	56.7	57.0	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
IV 7000		46.5	50.0	54.0	58.0	58.7	59.0	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
IV 6000		50.1	54.0	58.3	62.6	63.4	63.7	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 5000		53.8	58.1	62.4	67.2	68.0	68.4	68.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 4500		55.9	60.3	64.7	69.9	70.8	71.1	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 4000		59.6	64.3	69.1	74.9	75.9	76.2	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 3500		63.5	68.5	73.2	79.6	80.6	81.3	82.1	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IV 3000		66.9	72.6	78.2	84.9	85.9	86.7	87.5	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 2500		68.7	74.6	80.6	88.5	89.8	90.6	91.6	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 2000		70.0	75.9	82.3	90.9	92.3	93.1	94.2	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 1800		70.4	76.3	83.7	91.9	93.3	94.1	95.3	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1500		71.4	77.4	85.0	93.3	94.7	95.5	96.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 1200		71.4	77.4	85.0	93.5	95.0	95.8	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1000		71.4	77.5	85.1	94.1	95.7	96.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 900		71.4	77.5	85.1	94.1	95.7	96.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 800		71.4	77.5	85.2	94.2	95.7	97.1	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 700		71.4	77.5	85.2	94.2	96.0	97.1	98.5	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 600		71.4	77.5	85.2	94.2	96.0	97.1	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 500		71.4	77.5	85.2	94.2	96.0	97.1	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 400		71.4	77.5	85.2	94.3	96.2	97.5	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 300		71.4	77.5	85.2	94.3	96.2	97.6	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200		71.4	77.5	85.2	94.3	96.2	97.6	99.2	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		71.4	77.5	85.2	94.3	96.2	97.6	99.2	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		71.4	77.5	85.2	94.3	96.2	97.6	99.2	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 866

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

1A
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		30.1	32.7	38.0	41.1	41.6	41.6	41.9	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 20000		32.7	35.6	41.7	45.3	46.6	46.6	46.8	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 18000		32.9	35.8	42.0	45.5	46.8	46.8	47.1	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IV 16000		32.9	35.8	42.0	45.5	46.8	46.8	47.1	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IV 14000		33.8	36.6	42.8	46.4	47.7	47.7	47.9	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2
IV 12000		34.5	37.3	43.9	47.4	48.8	48.8	49.0	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2
IV 10000		36.7	39.7	46.6	50.2	51.6	51.8	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 9000		37.6	40.5	47.4	51.0	52.4	52.7	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 8000		37.9	41.0	47.9	51.5	52.9	53.2	53.6	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 7000		40.5	43.9	50.8	54.3	55.8	56.0	56.5	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 6000		43.8	47.3	54.2	58.3	59.8	60.0	60.5	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IV 5000		47.9	52.3	59.6	63.7	65.3	65.5	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IV 4500		50.2	54.8	62.8	67.3	68.8	69.1	69.6	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 4000		55.1	59.8	68.3	73.2	74.8	75.4	75.9	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 3500		58.0	63.0	71.9	77.3	78.8	79.4	79.9	80.0	80.1	80.3	80.3	80.3	80.3	80.3	80.3
IV 3000		60.5	66.0	75.6	81.9	83.5	84.3	84.9	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1
IV 2500		63.4	69.1	79.5	86.4	88.2	89.1	89.5	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9
IV 2000		65.3	71.1	81.8	89.1	90.8	91.7	92.2	92.3	92.4	92.5	92.5	92.6	92.6	92.6	92.6
IV 1800		66.5	72.4	83.4	91.0	92.7	93.6	94.1	94.2	94.3	94.4	94.4	94.5	94.5	94.5	94.5
IV 1500		67.5	73.7	84.8	92.5	94.4	95.2	95.7	95.8	96.0	96.1	96.1	96.2	96.2	96.2	96.2
IV 1200		67.8	74.0	85.4	93.3	95.4	96.7	97.1	97.3	97.4	97.5	97.5	97.6	97.6	97.6	97.6
IV 1000		67.8	74.0	85.4	93.3	95.5	97.0	97.6	97.7	97.9	98.0	98.0	98.1	98.1	98.1	98.1
IV 900		67.9	74.1	85.6	93.8	95.8	97.5	98.1	98.2	98.3	98.5	98.5	98.6	98.6	98.6	98.6
IV 800		67.9	74.1	85.6	93.9	96.1	97.7	98.3	98.5	98.6	98.7	98.7	98.9	98.9	98.9	98.9
IV 700		67.9	74.1	85.6	93.9	96.3	98.0	98.6	98.7	98.8	98.9	98.9	99.0	99.0	99.0	99.0
IV 600		67.9	74.1	85.6	93.9	96.3	98.0	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
IV 500		67.9	74.1	85.6	93.9	96.3	98.1	98.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2
IV 400		67.9	74.1	85.6	93.9	96.4	98.2	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3
IV 300		67.9	74.1	85.6	93.9	96.4	98.3	99.0	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6
IV 200		67.9	74.1	85.6	93.9	96.4	98.3	99.0	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8
IV 100		67.9	74.1	85.6	93.9	96.4	98.3	99.0	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8
IV 0		67.9	74.1	85.6	93.9	96.4	98.3	99.0	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 841

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-70

APL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS UTC

CEILING FEET.	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
NO CEILING		42.1	44.8	47.9	49.6	49.9	49.9	50.4	50.6	50.6	50.6	50.6	50.6	50.7	50.7	50.7
IV 20000		45.7	48.6	52.5	54.7	55.0	55.0	55.5	55.8	56.8	55.8	55.8	55.8	55.9	55.9	55.9
IV 18000		46.1	49.0	52.8	55.0	55.4	55.4	55.9	56.1	56.1	56.1	56.1	56.1	56.3	56.3	56.3
IV 16000		46.2	49.1	52.9	55.2	55.5	55.5	56.0	56.3	56.3	56.3	56.3	56.3	56.4	56.4	56.4
IV 14000		47.1	50.1	53.9	56.1	56.5	56.5	57.0	57.2	57.2	57.2	57.2	57.2	57.4	57.4	57.4
IV 12000		49.5	52.8	56.8	59.1	59.5	59.5	60.0	60.2	60.2	60.2	60.2	60.2	60.3	60.4	60.4
IV 10000		52.5	56.0	60.2	62.7	63.1	63.1	63.6	63.9	63.9	63.9	63.9	63.9	64.0	64.1	64.1
IV 9000		53.4	57.0	61.3	63.8	64.4	64.4	64.9	65.1	65.1	65.1	65.1	65.1	65.2	65.4	65.4
IV 8000		54.9	58.5	63.1	65.8	66.5	66.5	67.0	67.2	67.2	67.2	67.2	67.2	67.3	67.4	67.4
IV 7000		58.6	62.4	67.2	69.9	70.5	70.5	71.0	71.3	71.3	71.3	71.3	71.3	71.4	71.5	71.5
IV 6000		61.1	65.4	70.3	73.0	73.6	73.7	74.2	74.4	74.4	74.4	74.4	74.4	74.6	74.7	74.7
IV 5000		63.9	68.2	73.1	75.8	76.4	76.5	77.0	77.3	77.3	77.3	77.3	77.3	77.4	77.5	77.5
IV 4500		65.7	71.1	76.4	79.5	80.1	80.2	80.7	81.0	81.0	81.0	81.0	81.0	81.1	81.2	81.2
IV 4000		69.9	74.4	79.7	82.9	83.5	83.7	84.2	84.4	84.4	84.4	84.4	84.4	84.5	84.6	84.6
IV 3500		71.5	76.2	81.7	85.0	85.6	85.7	86.2	86.5	86.6	86.6	86.6	86.6	86.7	86.9	86.9
IV 3000		73.7	79.1	85.0	88.7	89.3	89.4	89.9	90.2	90.3	90.3	90.3	90.3	90.4	90.5	90.5
IV 2500		74.7	80.1	86.2	90.3	90.9	91.0	91.5	91.8	91.9	91.9	91.9	91.9	91.9	92.0	92.1
IV 2000		76.8	82.3	88.9	93.1	93.7	93.9	94.3	94.6	94.7	94.7	94.7	94.7	94.8	95.0	95.0
IV 1800		77.1	82.7	89.3	93.7	94.3	94.5	95.0	95.2	95.3	95.3	95.3	95.3	95.5	95.6	95.6
IV 1500		77.9	83.4	90.2	94.8	95.5	95.6	96.2	96.4	96.6	96.6	96.6	96.6	96.7	96.8	96.8
IV 1200		78.1	83.7	90.4	95.1	95.7	95.8	96.4	96.7	96.9	96.9	96.9	96.9	97.1	97.2	97.2
IV 1000		78.3	83.8	90.5	95.3	95.9	96.1	96.7	96.9	97.2	97.2	97.2	97.2	97.3	97.4	97.4
IV 900		78.3	83.9	90.7	95.6	96.2	96.3	96.9	97.2	97.4	97.4	97.4	97.4	97.5	97.7	97.7
IV 800		78.3	84.0	90.8	96.1	96.8	96.9	97.5	97.8	98.2	98.2	98.2	98.2	98.3	98.4	98.4
IV 700		78.3	84.0	90.8	96.2	97.1	97.2	97.8	98.0	98.4	98.4	98.4	98.4	98.5	98.6	98.6
IV 600		78.3	84.0	90.8	96.2	97.2	97.3	97.9	98.3	98.6	98.6	98.6	98.6	98.8	98.9	98.9
IV 500		78.3	84.0	90.8	96.4	97.4	97.5	98.3	98.6	99.0	99.0	99.0	99.0	99.1	99.3	99.3
IV 400		78.3	84.0	90.8	96.4	97.4	97.5	98.3	98.6	99.0	99.0	99.0	99.0	99.1	99.3	99.3
IV 300		78.3	84.0	90.8	96.4	97.4	97.5	98.4	98.8	99.1	99.1	99.1	99.1	99.3	99.4	99.5
IV 200		78.3	84.0	90.8	96.4	97.4	97.5	98.6	99.0	99.4	99.4	99.4	99.4	99.5	99.6	99.6
IV 100		78.3	84.0	90.8	96.4	97.4	97.5	98.6	99.0	99.4	99.4	99.4	99.4	99.5	99.6	99.6
IV 0		78.3	84.0	90.8	96.4	97.4	97.5	98.6	99.0	99.4	99.4	99.4	99.4	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 814

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 YEAR

AP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500 HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	
NO CEILING ≥ 20000		31.5	34.1	37.7	41.8	42.6	43.0	44.3	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.9	45.3
≥ 18000		34.4	37.1	41.2	46.1	47.2	47.7	49.6	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.2	50.5
≥ 16000		34.4	37.1	41.2	46.1	47.2	47.7	49.6	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.2	50.5
≥ 14000		34.8	37.4	41.6	46.3	47.6	48.0	49.9	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.5	50.9
≥ 12000		37.2	39.8	44.2	49.5	50.8	51.3	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.9	54.2
≥ 10000		40.0	42.9	47.3	52.7	54.2	54.7	56.9	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.8
≥ 9000		41.4	44.3	48.9	54.2	55.8	56.3	58.4	58.8	58.9	58.9	58.9	58.9	58.9	58.9	59.0	59.4
≥ 8000		42.7	45.6	50.2	55.7	57.2	57.7	59.8	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.4	60.8
≥ 7000		44.8	47.8	52.7	58.4	60.0	60.4	62.6	62.9	63.1	63.2	63.2	63.2	63.2	63.2	63.3	63.6
≥ 6000		48.0	51.1	56.5	62.6	64.2	64.8	67.1	67.5	67.7	67.8	67.8	67.8	67.8	67.8	67.9	68.3
≥ 5000		50.5	53.8	59.6	66.0	67.8	68.4	70.8	71.2	71.4	71.5	71.5	71.5	71.5	71.5	71.6	72.0
≥ 4500		53.3	56.5	62.6	69.0	70.8	71.4	73.8	74.1	74.4	74.5	74.5	74.5	74.5	74.5	74.6	75.0
≥ 4000		56.1	59.7	66.0	72.6	74.4	75.0	77.5	77.9	78.2	78.3	78.3	78.3	78.3	78.3	78.4	78.8
≥ 3500		58.6	62.3	68.9	75.7	77.5	78.1	80.7	81.3	81.6	81.8	81.8	81.8	81.8	81.8	81.9	82.2
≥ 3000		61.0	64.8	71.9	78.9	80.7	81.3	84.3	84.9	85.3	85.5	85.5	85.5	85.5	85.5	85.6	85.9
≥ 2500		63.5	67.5	75.0	82.1	84.0	84.6	87.6	88.2	88.7	88.8	88.8	88.8	88.8	88.8	88.9	89.3
≥ 2000		65.6	69.6	77.7	85.3	87.4	88.1	91.2	91.8	92.3	92.4	92.4	92.4	92.4	92.4	92.5	92.8
≥ 1800		66.0	70.2	78.4	86.1	88.1	88.9	92.0	92.6	93.1	93.2	93.2	93.2	93.2	93.2	93.3	93.7
≥ 1500		66.7	70.9	79.3	87.7	89.9	90.8	93.9	94.5	95.0	95.1	95.1	95.1	95.1	95.1	95.2	95.6
≥ 1200		67.0	71.3	79.7	88.4	90.7	91.7	94.9	95.6	96.1	96.2	96.2	96.2	96.2	96.3	96.3	96.7
≥ 1000		67.0	71.3	79.9	88.8	91.2	92.1	95.4	96.1	96.5	96.7	96.7	96.7	96.7	96.7	96.8	97.1
≥ 900		67.0	71.3	79.9	89.0	91.4	92.4	95.6	96.3	96.8	96.9	96.9	96.9	96.9	96.9	97.0	97.4
≥ 800		67.0	71.3	80.0	89.2	91.7	92.6	95.9	96.7	97.1	97.3	97.3	97.3	97.3	97.3	97.4	97.7
≥ 700		67.0	71.3	80.0	89.2	91.7	92.6	95.9	96.7	97.1	97.3	97.3	97.3	97.3	97.3	97.4	97.7
≥ 600		67.0	71.3	80.1	89.4	91.9	92.8	96.2	96.9	97.4	97.5	97.5	97.5	97.5	97.6	97.7	98.1
≥ 500		67.0	71.3	80.2	89.6	92.1	93.2	96.7	97.4	97.9	98.0	98.1	98.1	98.1	98.1	98.2	98.6
≥ 400		67.0	71.3	80.2	89.6	92.1	93.2	96.8	97.5	98.1	98.2	98.3	98.3	98.3	98.3	98.5	98.9
≥ 300		67.0	71.3	80.2	89.6	92.1	93.3	97.0	97.9	98.5	98.6	98.7	98.7	98.7	98.7	98.8	99.3
≥ 200		67.0	71.3	80.2	89.6	92.1	93.3	97.0	97.9	98.5	98.6	98.7	98.7	98.7	98.8	98.9	99.4
≥ 100		67.0	71.3	80.2	89.6	92.1	93.3	97.1	98.0	98.6	98.7	98.8	98.8	98.8	99.0	99.2	99.5
≥ 0		67.0	71.3	80.2	89.6	92.1	93.3	97.1	98.0	98.6	98.7	98.8	98.8	99.0	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 839

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEAR

AP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0600-0800
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING		22.7	24.7	30.8	37.1	38.7	39.9	41.4	41.7	42.3	42.5	42.5	42.7	42.7	42.7	42.7
IV 20000		29.0	31.5	37.8	45.3	47.1	48.3	50.6	51.3	51.9	52.1	52.1	52.2	52.2	52.2	52.2
IV 18000		29.0	31.5	37.8	45.3	47.1	48.3	50.6	51.3	51.9	52.1	52.1	52.2	52.2	52.2	52.2
IV 16000		29.0	31.5	37.8	45.3	47.1	48.3	50.6	51.3	51.9	52.1	52.1	52.2	52.2	52.2	52.2
IV 14000		29.4	31.9	38.5	46.2	47.9	49.1	51.4	52.1	52.7	52.9	52.9	53.0	53.0	53.0	53.0
IV 12000		31.1	33.4	40.6	48.5	50.2	51.5	54.0	54.8	55.4	55.6	55.6	55.7	55.7	55.7	55.7
IV 10000		33.7	36.7	43.8	52.1	54.1	55.6	58.0	58.9	59.6	59.8	59.8	59.9	59.9	59.9	59.9
IV 9000		35.2	38.2	45.7	54.0	56.1	57.6	60.0	60.8	61.5	61.8	61.8	61.9	61.9	61.9	61.9
IV 8000		36.0	39.2	46.7	55.2	57.3	58.9	61.3	62.1	62.8	63.1	63.1	63.2	63.2	63.2	63.2
IV 7000		36.9	40.2	47.8	56.9	59.0	60.6	63.1	63.9	64.6	64.8	64.8	64.9	64.9	64.9	64.9
IV 6000		40.4	43.9	51.6	51.1	63.4	65.0	67.6	68.4	69.2	69.5	69.5	69.6	69.7	69.7	69.7
IV 5000		42.4	46.2	54.0	63.8	66.3	68.2	71.1	71.9	72.7	73.0	73.0	73.1	73.2	73.2	73.2
IV 4500		43.9	47.7	55.5	65.3	67.8	69.7	72.6	73.4	74.2	74.5	74.5	74.6	74.7	74.7	74.7
IV 4000		47.0	51.0	59.1	69.0	71.7	73.5	76.9	77.9	78.7	79.0	79.0	79.1	79.3	79.3	79.3
IV 3500		48.6	52.7	61.0	71.0	73.8	75.6	79.0	80.0	80.8	81.1	81.1	81.2	81.4	81.4	81.4
IV 3000		50.6	54.8	63.4	73.2	77.4	79.4	82.8	83.7	84.7	85.1	85.1	85.2	85.3	85.3	85.3
IV 2500		53.0	57.3	66.4	77.4	80.5	82.5	85.9	86.8	87.9	88.2	88.2	88.3	88.5	88.5	88.5
IV 2000		55.5	59.9	69.1	80.7	83.9	85.9	89.7	90.7	91.8	92.2	92.2	92.3	92.4	92.4	92.4
IV 1800		56.2	60.6	69.0	81.6	85.0	87.1	91.0	92.0	93.1	93.5	93.5	93.6	93.7	93.7	93.7
IV 1500		56.6	61.1	70.4	82.3	85.9	88.2	92.2	93.2	94.5	94.9	94.9	95.0	95.1	95.1	95.1
IV 1200		56.6	61.1	70.6	82.8	86.4	88.7	93.1	94.2	95.6	95.9	95.9	96.0	96.2	96.2	96.2
IV 1000		56.8	61.3	70.9	83.0	86.7	89.0	93.5	94.5	96.0	96.4	96.4	96.5	96.6	96.6	96.6
IV 900		56.9	61.4	71.0	83.1	86.8	89.2	93.6	94.6	96.2	96.5	96.5	96.6	96.7	96.7	96.7
IV 800		56.9	61.4	71.1	83.2	86.9	89.3	93.8	95.0	96.5	96.9	96.9	97.0	97.1	97.1	97.1
IV 700		56.9	61.4	71.1	83.2	86.9	89.4	93.9	95.1	96.7	97.1	97.1	97.2	97.3	97.3	97.3
IV 600		56.9	61.4	71.1	83.4	87.3	89.7	94.6	95.8	97.6	97.9	97.9	98.0	98.1	98.1	98.1
IV 500		56.9	61.4	71.1	83.4	87.3	89.7	95.0	96.2	98.0	98.5	98.6	98.7	98.8	98.8	98.8
IV 400		56.9	61.4	71.1	83.4	87.3	89.7	95.0	96.2	98.4	99.0	99.1	99.2	99.3	99.3	99.3
IV 300		56.9	61.4	71.1	83.4	87.3	89.9	95.1	96.3	98.7	99.3	99.4	99.5	99.7	99.7	99.7
IV 200		56.9	61.4	71.1	83.4	87.3	89.9	95.1	96.3	98.8	99.4	99.5	99.7	99.9	99.9	99.9
IV 100		56.9	61.4	71.1	83.4	87.3	89.9	95.1	96.3	98.8	99.4	99.5	99.7	99.9	99.9	99.9
IV 0		56.9	61.4	71.1	83.4	87.3	89.9	95.1	96.3	98.8	99.4	99.5	99.7	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 856

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT

07-70

AP

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100
NO. OF

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.25	≥.1	≥.05	≥.01	≥.005	≥.001
NO CEILING																
≥ 20000	34.1	36.7	40.4	43.3	43.4	43.6	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
18000	40.2	43.5	48.1	51.7	51.9	52.6	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
16000	40.4	43.7	48.2	51.8	52.0	52.7	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
14000	41.2	44.3	49.0	52.6	52.9	53.6	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
12000	42.3	46.0	50.5	54.2	54.5	55.2	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
10000	45.1	49.1	54.0	57.9	58.1	58.8	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
9000	46.3	50.6	55.5	59.4	59.7	60.5	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
8000	46.6	51.0	55.9	60.0	60.4	61.4	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
7000	46.9	51.3	56.2	60.4	60.9	61.8	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
6000	48.3	52.9	57.9	62.2	62.6	63.6	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
5000	51.0	55.8	61.2	65.9	66.4	67.6	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
4500	52.0	56.7	62.3	66.9	67.4	68.7	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
4000	55.1	59.8	65.8	70.5	71.0	72.4	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
3500	57.7	62.5	68.9	74.0	74.6	76.0	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
3000	61.9	66.8	72.5	78.6	79.3	80.7	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2500	67.3	72.3	79.3	84.5	85.2	86.7	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2000	71.0	76.1	83.5	88.9	89.6	91.2	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
1800	71.4	76.7	84.2	89.6	90.3	91.9	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1500	73.0	78.6	86.3	92.2	92.9	94.5	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
1200	73.3	79.0	87.0	93.4	94.1	95.7	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
1000	73.5	79.2	87.2	94.1	94.8	96.5	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
900	73.5	79.2	87.2	94.1	94.8	96.5	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
800	73.5	79.3	87.3	94.3	95.3	97.3	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
700	73.5	79.3	87.4	94.9	95.7	97.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
600	73.5	79.3	87.4	95.0	96.2	98.5	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
500	73.5	79.3	87.4	95.0	96.2	98.5	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
400	73.5	79.3	87.4	95.0	96.2	98.5	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
300	73.5	79.3	87.4	95.0	96.2	98.5	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	73.5	79.3	87.4	95.0	96.2	98.5	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	73.5	79.3	87.4	95.0	96.2	98.5	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	73.5	79.3	87.4	95.0	96.2	98.5	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 859

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-70

AP
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-2400
 HOURS PER DAY

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING		41.3	42.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 20000		50.1	51.9	53.6	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 18000		50.1	51.9	53.6	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 16000		50.1	51.9	53.6	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 14000		51.0	52.7	54.4	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 12000		52.4	54.2	56.0	56.4	56.4	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 10000		54.5	56.3	58.1	58.7	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 9000		56.0	58.0	60.0	60.7	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 8000		56.8	58.9	61.0	61.7	61.7	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 7000		57.9	60.1	62.2	63.0	63.1	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 6000		59.5	61.8	63.8	64.7	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
IV 5000		62.2	64.6	66.7	67.7	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 4500		65.3	67.7	69.8	70.8	70.9	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
IV 4000		69.8	72.2	74.3	75.3	75.4	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 3500		73.2	75.5	77.8	78.8	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 3000		79.7	82.3	85.1	86.2	86.3	86.3	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 2500		84.1	87.1	90.1	91.3	91.4	91.4	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 2000		87.4	90.6	93.9	95.2	95.3	95.5	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1800		87.9	91.3	94.6	95.9	96.1	96.2	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1500		88.9	92.3	95.8	97.3	97.5	97.6	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 1200		89.1	92.7	96.2	97.6	97.9	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1000		89.1	92.7	96.3	97.7	98.0	98.1	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 900		89.1	92.7	96.3	97.9	98.2	98.3	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800		89.1	92.7	96.3	98.0	98.3	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 700		89.1	92.7	96.4	98.2	98.6	98.7	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600		89.3	92.8	96.5	98.3	98.7	98.9	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500		89.3	92.8	96.5	98.3	98.7	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		89.3	92.8	96.5	98.3	98.7	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		89.3	92.8	96.5	98.3	98.7	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		89.3	92.8	96.5	98.3	98.7	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		89.3	92.8	96.5	98.3	98.7	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		89.3	92.8	96.5	98.3	98.7	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 836

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT c7-76

AP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
LOCAL TIME

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.7	≥.6	≥.5	≥.4
NO CEILING ≥ 20000		42.0	42.5	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 18000 16000		55.6	56.4	57.1	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
IV 14000 12000		56.8	57.7	58.6	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IV 10000 9000		61.8	62.8	63.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 8000 7000		65.0	66.1	66.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
IV 6000 5000		69.3	70.5	71.6	72.6	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 4500 4000		75.6	76.9	78.6	79.6	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 3500 3000		82.1	83.8	85.7	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 2500 2000		87.9	90.2	92.5	94.0	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1800 1500		89.0	91.4	94.1	95.7	95.8	95.8	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1200 1000		90.5	93.0	95.8	97.9	98.3	98.3	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 900 800		90.6	93.1	95.9	98.1	98.7	98.8	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700 600		90.6	93.1	95.9	98.1	98.7	98.8	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 500 400		90.6	93.1	95.9	98.1	98.7	98.8	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300 200		90.6	93.1	95.9	98.1	98.7	98.8	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100 0		90.6	93.1	95.9	98.1	98.7	98.8	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

828

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APK MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS (LT)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING																
≥ 70000		42.5	43.2	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 18000		53.7	54.9	56.4	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 16000		54.0	55.2	56.7	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 14000		54.0	55.2	56.7	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 12000		55.1	56.3	57.8	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 10000		57.8	59.0	60.4	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 9000		60.8	62.1	63.9	64.8	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 8000		62.0	63.4	65.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 7000		63.0	64.3	66.2	67.2	67.2	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 6000		65.1	66.4	68.5	69.5	69.5	69.5	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 5000		67.6	69.2	71.4	72.4	72.4	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 4500		70.9	72.5	74.7	76.1	76.1	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 4000		74.1	75.8	78.1	79.5	79.5	79.5	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 3500		79.2	81.2	83.8	85.3	85.3	85.3	85.6	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3000		81.6	83.6	86.6	88.5	88.6	88.6	88.8	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500		83.6	86.0	89.3	91.2	91.3	91.3	91.5	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000		85.6	87.9	91.3	93.5	93.7	93.8	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1800		86.8	89.3	92.7	95.4	95.8	96.1	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1500		86.9	89.5	93.2	95.8	96.5	96.7	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1200		87.8	90.6	94.3	97.3	97.9	98.3	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000		87.8	90.6	94.3	97.3	97.9	98.3	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900		87.9	90.7	94.4	97.6	98.3	98.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		87.9	90.7	94.4	97.7	98.4	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700		87.9	90.7	94.4	97.7	98.4	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600		87.9	90.7	94.4	97.7	98.4	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500		87.9	90.7	94.4	97.7	98.4	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		87.9	90.7	94.4	97.7	98.4	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300		87.9	90.7	94.4	97.7	98.4	98.8	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		87.9	90.7	94.4	97.7	98.4	98.8	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		87.9	90.7	94.4	97.7	98.4	98.8	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		87.9	90.7	94.4	97.7	98.4	98.8	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 819

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

AD MONTH 2100-2300 HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1½	≥1	≥¾	≥¾	≥¾	≥5/16	≥.	≥0	
NO CEILING		48.4	49.0	49.9	50.4	50.5	50.6	50.7	50.7	50.9	50.9	50.9	50.9	50.9	50.9	50.9	51.0
≥ 20000		56.1	56.8	58.1	58.7	58.9	59.2	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5
IV 18000		56.1	56.8	58.1	58.7	58.9	59.2	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5
IV 16000		56.1	56.8	58.1	58.7	58.9	59.2	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5
IV 14000		57.0	57.7	59.0	59.7	59.9	60.1	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.5
IV 12000		59.2	60.0	61.6	62.2	62.5	62.7	62.8	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1
IV 10000		62.0	63.6	65.3	66.0	66.3	66.5	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.9
IV 9000		63.3	65.0	66.7	67.5	67.7	68.0	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3
IV 8000		64.7	66.4	68.2	68.9	69.2	69.4	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8
IV 7000		66.9	68.6	70.7	71.5	71.8	72.0	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4
IV 6000		71.4	73.1	75.4	76.3	76.5	76.8	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1
IV 5000		74.4	76.5	78.9	80.1	80.3	80.6	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9
IV 4500		76.8	79.0	81.4	82.8	83.0	83.3	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.6
IV 4000		80.4	82.8	85.2	86.8	87.2	87.4	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.8
IV 3500		82.2	84.5	87.0	88.9	89.2	89.5	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.9
IV 3000		84.6	87.0	89.6	91.4	91.9	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5
IV 2500		85.8	88.4	91.2	93.0	93.5	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1
IV 2000		87.0	89.9	93.4	95.5	96.1	96.3	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7
IV 1800		87.4	90.2	93.9	96.1	96.7	96.9	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3
IV 1500		87.9	90.7	94.4	96.6	97.2	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8
IV 1200		87.9	90.8	94.6	96.9	97.8	98.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 1000		87.9	90.8	94.6	97.3	98.3	98.5	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0
IV 900		87.9	90.8	94.6	97.3	98.3	98.5	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0
IV 800		87.9	90.8	94.6	97.4	98.4	98.7	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1
IV 700		87.9	90.8	94.6	97.4	98.4	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
IV 600		87.9	90.8	94.6	97.4	98.4	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
IV 500		87.9	90.8	94.6	97.4	98.4	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
IV 400		87.9	90.8	94.6	97.4	98.4	98.7	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
IV 300		87.9	90.8	94.6	97.4	98.4	98.7	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.8
IV 200		87.9	90.8	94.6	97.4	98.4	98.7	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
IV 100		87.9	90.8	94.6	97.4	98.4	98.7	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
IV 0		87.9	90.8	94.6	97.4	98.4	98.7	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 818

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

147
MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS 151

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥½	≥¼	≥0	≥0
NO CEILING																
≥ 20000	40.7	42.7	45.8	47.9	48.2	48.5	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.1
18000	43.8	45.9	49.1	52.0	52.2	52.7	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3
16000	43.8	45.9	49.1	52.0	52.2	52.7	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3
14000	44.6	46.7	49.9	52.8	53.0	53.5	53.5	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.1
12000	47.1	49.9	53.5	56.5	56.7	57.2	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.8
10000	51.1	54.2	58.0	61.2	61.5	62.0	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5
9000	54.7	58.7	62.5	65.8	66.0	66.5	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.1
8000	55.8	60.0	63.9	67.3	67.5	68.0	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.8
7000	58.9	64.0	68.3	71.9	72.4	72.9	73.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7
6000	61.2	66.3	70.9	74.8	75.4	75.9	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.7
5000	63.6	69.1	74.1	78.0	78.6	79.1	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	80.0
4500	65.5	71.2	76.3	80.3	80.9	81.3	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.3
4000	66.6	72.7	78.2	82.5	83.1	83.6	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.7
3500	68.1	74.0	79.5	84.3	84.9	85.4	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.4
3000	69.8	75.7	81.7	86.6	87.3	87.8	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.8
2500	71.2	77.3	83.5	88.3	89.1	89.5	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.6
2000	72.5	78.7	85.0	90.0	90.7	91.2	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.3
1800	73.4	79.5	86.1	91.3	92.2	92.6	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.7
1500	74.0	80.1	87.0	92.4	93.3	93.8	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.9
1200	74.2	80.4	87.4	92.7	93.7	94.2	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.2
1000	74.2	80.4	87.5	92.9	93.9	94.4	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5
900	74.2	80.4	87.5	93.0	94.1	94.5	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.6
800	74.2	80.4	87.6	93.2	94.3	94.8	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	96.0
700	74.2	80.4	87.6	93.5	94.5	95.0	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.2
600	74.2	80.4	87.6	93.6	94.8	95.2	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.6
500	74.2	80.4	87.6	93.9	95.2	95.7	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.5
400	74.2	80.5	87.8	94.1	95.4	96.1	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.1
300	74.2	80.6	87.9	94.2	95.7	96.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7
200	74.2	80.6	87.9	94.5	96.1	96.8	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6
100	74.2	80.6	87.9	94.5	96.1	96.8	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6
0	74.2	80.6	87.9	94.5	96.1	96.8	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 841

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-500 HOURS LT

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥½	≥5/16	≥.	≥0
NO CEILING		26.7	29.7	32.9	37.0	39.0	40.3	41.7	42.0	42.5	42.0	42.6	42.6	42.7	42.7	42.8
≥ 20000		30.4	33.1	38.1	43.3	45.5	46.8	48.2	48.5	49.0	49.1	49.1	49.1	49.2	49.2	49.4
≥ 18000		30.4	34.1	38.1	43.3	45.5	46.8	48.2	48.5	49.0	49.1	49.1	49.1	49.2	49.2	49.4
IV 16000		30.4	34.1	38.1	43.3	45.5	46.8	48.2	48.5	49.0	49.1	49.1	49.1	49.2	49.2	49.4
IV 14000		30.7	34.5	38.4	43.7	45.9	47.1	48.7	49.0	49.5	49.7	49.7	49.7	49.8	49.8	49.9
IV 12000		33.2	37.0	41.2	47.1	49.4	50.6	52.2	52.5	53.0	53.2	53.2	53.2	53.3	53.3	53.4
IV 10000		36.7	41.1	46.2	53.2	55.9	57.2	58.8	59.1	59.6	59.8	59.8	59.8	60.0	60.0	60.1
IV 9000		28.4	43.4	48.8	56.0	58.7	60.0	61.7	62.0	62.5	62.7	62.7	62.7	62.9	62.9	63.0
IV 8000		39.9	45.1	50.6	58.2	60.9	62.3	64.0	64.5	65.0	65.2	65.2	65.2	65.3	65.3	65.5
IV 7000		42.4	48.0	54.2	62.3	65.1	66.7	68.5	68.9	69.4	69.6	69.6	69.6	69.7	69.7	69.8
IV 6000		44.7	50.8	57.7	66.0	69.4	71.0	72.9	73.3	73.8	74.0	74.0	74.0	74.2	74.2	74.3
IV 5000		45.9	52.5	59.7	68.8	72.3	74.0	76.1	76.6	77.1	77.3	77.3	77.3	77.4	77.4	77.5
IV 4500		47.4	54.6	62.0	71.2	74.7	76.5	78.7	79.2	79.6	79.9	79.9	79.9	80.0	80.0	80.1
IV 4000		49.1	56.7	64.4	73.9	77.6	79.7	82.0	82.4	82.9	83.1	83.1	83.1	83.2	83.2	83.4
IV 3500		49.7	57.6	65.3	74.9	78.6	80.7	83.0	83.5	83.9	84.2	84.3	84.3	84.4	84.4	84.5
IV 3000		51.7	59.7	68.0	77.8	81.6	83.9	86.4	86.8	87.3	87.5	87.7	87.7	87.8	87.8	87.9
IV 2500		53.0	61.1	70.0	80.4	84.4	86.7	89.2	89.6	90.1	90.3	90.5	90.5	90.6	90.6	90.7
IV 2000		53.8	61.9	71.0	81.6	85.6	87.9	90.3	90.8	91.3	91.5	91.5	91.6	91.7	91.7	91.9
IV 1800		54.0	62.2	71.4	82.1	86.0	88.5	90.9	91.4	91.9	92.1	92.2	92.2	92.3	92.3	92.4
IV 1500		54.5	62.9	72.2	83.2	87.2	89.9	92.5	93.0	93.5	93.7	93.8	93.8	93.9	93.9	94.1
IV 1200		54.7	63.1	72.4	83.6	87.5	90.2	92.9	93.4	93.8	94.1	94.2	94.2	94.3	94.3	94.4
IV 1000		54.7	63.1	72.4	83.6	87.7	90.3	93.1	93.6	94.1	94.3	94.4	94.4	94.5	94.5	94.6
IV 900		54.7	63.1	72.4	83.6	87.8	90.5	93.2	93.7	94.2	94.4	94.5	94.5	94.6	94.6	94.8
IV 800		54.7	63.1	72.4	83.6	87.9	90.6	93.4	93.8	94.3	94.5	94.6	94.6	94.8	94.8	94.9
IV 700		54.7	63.1	72.5	83.7	88.1	90.8	93.7	94.3	94.8	95.0	95.1	95.1	95.2	95.2	95.3
IV 600		54.7	63.1	72.5	83.8	88.4	91.3	94.2	94.8	95.2	95.6	95.7	95.7	95.8	95.8	95.9
IV 500		54.7	63.1	72.5	83.8	88.4	91.5	94.5	95.1	95.6	96.0	96.2	96.2	96.3	96.3	96.4
IV 400		54.7	63.1	72.5	83.8	88.5	91.7	94.8	95.5	95.9	96.4	96.5	96.5	96.6	96.6	96.9
IV 300		54.7	63.1	72.5	83.8	88.5	91.7	95.0	95.9	96.5	97.3	97.4	97.4	97.6	97.6	97.8
IV 200		54.7	63.1	72.5	83.8	88.5	91.7	95.0	95.9	96.5	97.4	97.6	97.6	97.8	98.0	98.4
IV 100		54.7	63.1	72.5	83.8	88.5	91.7	95.0	95.9	96.6	97.7	98.3	98.3	98.5	98.8	99.4
IV 0		54.7	63.1	72.5	83.8	88.5	91.7	95.0	95.9	96.6	97.7	98.3	98.3	98.5	98.8	99.0

TOTAL NUMBER OF OBSERVATIONS 859

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	
NO CEILING ≥ 20000	22.5	26.0	31.2	35.0	36.6	36.8	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.8
IV 18000	28.3	32.9	40.1	45.4	46.0	46.3	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.4
IV 16000	28.3	32.9	40.1	45.4	46.0	46.3	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.4
IV 14000	28.9	33.5	40.9	46.4	47.1	47.5	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.6
IV 12000	31.8	37.0	45.0	51.0	51.7	52.1	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.2
IV 10000	34.7	40.5	49.9	57.3	58.3	58.8	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.3
IV 9000	35.7	41.6	51.4	58.8	59.7	60.3	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9
IV 8000	36.1	42.2	52.1	59.6	60.6	61.2	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.8
IV 7000	37.6	43.7	53.8	61.5	62.4	62.2	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8
IV 6000	40.6	46.8	57.7	66.2	67.2	68.0	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6
IV 5000	42.7	49.2	60.8	70.0	71.2	72.2	73.9	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2
IV 4500	44.0	50.9	62.6	71.8	73.1	74.3	75.9	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.3
IV 4000	45.8	52.9	65.0	74.9	76.1	77.4	79.1	79.2	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6
IV 3500	47.4	54.4	66.6	76.8	78.2	79.6	81.3	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.9
IV 3000	50.2	57.7	70.2	81.0	82.5	84.4	86.4	86.5	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.9
IV 2500	51.7	59.2	71.7	82.6	84.2	86.2	88.4	88.6	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.1
IV 2000	52.8	60.2	72.8	83.8	85.6	87.7	90.0	90.3	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.7
IV 1800	53.3	60.8	73.6	84.6	86.4	88.5	90.8	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.5
IV 1500	54.5	62.0	75.1	86.2	88.3	90.5	92.8	93.0	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.5
IV 1200	54.8	62.6	75.8	87.4	89.7	91.9	94.4	94.6	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.1
IV 1000	54.8	62.6	75.8	87.6	90.3	92.4	95.3	95.5	95.8	95.9	95.9	95.9	95.9	95.9	95.9	96.0
IV 900	54.8	62.6	75.8	87.7	90.5	92.7	95.5	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.2
IV 800	54.9	62.7	75.9	87.8	90.7	92.9	96.0	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.8
IV 700	54.9	62.7	75.9	87.8	90.7	92.9	96.0	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.8
IV 600	54.9	62.7	75.9	88.1	90.9	93.2	96.6	96.9	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.5
IV 500	54.9	62.7	75.9	88.2	91.1	93.5	97.0	97.4	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.2
IV 400	54.9	62.7	75.9	88.3	91.2	93.6	97.5	97.8	98.5	98.7	98.9	98.9	98.9	98.9	98.9	99.0
IV 300	54.9	62.7	75.9	88.3	91.2	93.7	97.6	97.9	98.7	99.1	99.3	99.5	99.5	99.5	99.5	99.7
IV 200	54.9	62.7	75.9	88.3	91.2	93.7	97.6	97.9	98.7	99.1	99.4	99.7	99.7	99.7	99.7	99.8
IV 100	54.9	62.7	75.9	88.3	91.2	93.7	97.6	97.9	98.7	99.1	99.4	99.7	99.7	99.7	99.7	99.8
IV 0	54.9	62.7	75.9	88.3	91.2	93.7	97.6	97.9	98.7	99.1	99.4	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS

872

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥16	≥4	≥0
NO CEILING ≥ 20000	34.4	35.9	37.6	38.5	38.9	38.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 18000 IV 16000	45.1	47.2	49.8	50.8	51.2	51.2	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
IV 14000 IV 12000	47.0	49.3	52.0	53.0	53.4	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
IV 10000 IV 9000	50.6	52.9	55.9	56.9	57.3	57.3	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 8000 IV 7000	53.4	55.9	59.4	60.8	61.2	61.2	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 6000 IV 5000	53.9	56.7	60.3	61.9	62.4	62.5	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 4500 IV 4000	54.2	57.1	60.8	62.4	62.8	63.0	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 3500 IV 3000	55.4	58.6	62.4	64.0	64.5	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
IV 2500 IV 2000	56.6	60.1	64.1	65.9	66.3	66.4	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 1800 IV 1500	59.8	63.5	67.8	69.7	70.1	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
IV 1200 IV 1000	62.0	65.9	70.5	72.2	72.8	72.9	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 900 IV 800	64.9	69.0	73.8	76.0	76.3	76.7	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
IV 700 IV 600	69.3	73.5	78.4	80.7	81.1	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 500 IV 400	74.1	78.5	83.6	86.2	86.8	87.0	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 300 IV 200	76.9	81.7	87.0	90.0	90.9	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 1500 IV 1000	78.6	83.9	89.2	92.4	93.2	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 1200 IV 1000	79.4	84.7	90.3	93.6	94.6	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 900 IV 800	80.4	85.8	91.7	95.0	95.9	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 700 IV 600	80.4	85.9	92.0	95.7	96.6	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 500 IV 400	80.6	86.2	92.4	96.2	97.2	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 300 IV 200	80.6	86.5	92.7	96.6	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 1500 IV 1000	80.9	86.6	92.8	96.9	98.0	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1200 IV 1000	80.9	86.6	92.8	96.9	98.0	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 900 IV 800	80.9	86.6	92.8	96.9	98.0	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700 IV 600	80.9	86.6	92.8	96.9	98.0	98.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500 IV 400	80.9	86.6	92.8	96.9	98.0	98.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300 IV 200	80.9	86.6	92.8	96.9	98.0	98.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100 0	80.9	86.6	92.8	96.9	98.0	98.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 864

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS CST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0	≥0	≥0
NO CEILING		34.7	34.8	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 20000		51.7	52.3	52.7	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 18000		52.3	52.9	53.3	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 16000		52.3	52.9	53.3	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 14000		54.0	54.5	54.9	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 12000		57.5	58.0	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
IV 10000		59.4	60.1	60.5	60.7	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 9000		61.0	61.9	62.2	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 8000		61.9	63.1	63.5	63.8	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 7000		63.9	65.0	65.5	65.7	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IV 6000		68.2	69.5	70.6	71.0	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 5000		74.1	75.6	76.9	77.3	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 4500		78.0	79.5	80.8	81.1	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 4000		82.8	84.4	85.8	86.1	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 3500		85.9	87.6	89.2	89.5	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 3000		89.2	91.6	93.5	93.9	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 2500		90.8	93.2	95.2	95.6	95.9	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 2000		91.7	94.3	96.5	97.1	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1800		92.1	94.6	96.9	97.4	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1500		92.3	94.9	97.2	98.1	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 1200		92.5	95.1	97.4	98.4	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1000		92.5	95.1	97.4	98.4	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 900		92.5	95.1	97.4	98.4	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800		92.5	95.1	97.4	98.4	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0		92.7	95.2	97.6	98.5	98.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 858

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	>1	≥¾	≥¾	≥½	≥¼	≥0	≥0
NO CEILING																
≥ 20000		34.2	34.2	34.3	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
IV 18000		54.4	54.4	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 16000		54.5	54.5	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 14000		56.8	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 12000		60.6	60.7	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 10000		64.2	64.4	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 9000		65.6	65.8	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 8000		66.2	66.4	66.7	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 7000		68.3	68.5	69.1	69.3	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 6000		74.4	74.6	75.2	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 5000		79.8	80.2	80.8	81.5	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 4500		82.4	82.8	83.5	84.2	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 4000		88.1	88.9	89.3	91.2	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 3500		89.5	90.3	91.4	92.7	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 3000		92.1	92.9	94.1	95.6	96.0	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 2500		93.4	94.3	95.5	97.2	97.5	97.5	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 2000		93.9	94.8	96.0	97.6	98.0	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 1800		94.1	95.0	96.2	98.0	98.3	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1500		94.3	95.3	96.7	98.5	98.8	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1200		94.3	95.3	96.7	98.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1000		94.3	95.3	96.7	98.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 900		94.3	95.3	96.7	98.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 800		94.3	95.3	96.7	98.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700		94.3	95.3	96.7	98.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600		94.3	95.3	96.7	98.5	98.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500		94.3	95.3	96.7	98.5	98.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400		94.3	95.3	96.7	98.6	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300		94.3	95.3	96.7	98.6	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		94.3	95.3	96.7	98.6	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		94.3	95.3	96.7	98.6	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		94.3	95.3	96.7	98.6	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 848

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-70
PERIOD

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1800-000
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING		33.1	34.0	34.5	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
≥ 20000		49.2	50.5	52.0	52.6	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
18000		49.5	50.8	52.2	52.8	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
16000		49.5	50.8	52.2	52.8	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
14000		51.0	52.3	53.7	54.3	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
12000		56.1	57.7	59.1	59.7	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
10000		59.9	61.6	63.1	63.7	63.9	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
9000		63.6	65.2	67.0	67.9	68.1	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
8000		65.5	67.3	69.2	70.1	70.3	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
7000		67.6	69.4	71.3	72.2	72.5	72.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
6000		71.9	73.7	75.8	76.7	77.0	77.2	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
5000		76.4	78.2	80.7	82.0	82.3	82.6	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
4500		77.8	79.6	82.2	84.0	84.3	84.6	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
4000		82.2	84.5	87.7	89.4	89.8	90.0	90.5	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
3500		83.9	86.2	89.7	91.5	91.8	92.1	92.5	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
3000		86.4	88.7	92.2	94.1	94.4	94.8	95.4	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2500		87.0	89.4	92.9	94.8	95.1	95.5	96.1	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2000		87.9	90.6	94.2	96.4	96.8	97.2	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
1800		87.9	90.6	94.3	96.7	97.0	97.4	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
1500		88.1	90.9	94.7	97.0	97.4	97.9	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
1200		88.3	91.2	95.0	97.4	97.7	98.2	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1000		88.3	91.2	95.1	97.5	97.9	98.3	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
900		88.3	91.2	95.1	97.5	97.9	98.3	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
800		88.3	91.2	95.1	97.5	97.9	98.3	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
700		88.3	91.2	95.1	97.5	97.9	98.3	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
600		88.3	91.2	95.1	97.6	98.0	98.5	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
500		88.3	91.2	95.1	97.7	98.1	98.6	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
400		88.3	91.2	95.1	97.7	98.1	98.6	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
300		88.3	91.2	95.1	97.9	98.2	98.7	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200		88.3	91.2	95.1	97.9	98.2	98.7	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100		88.3	91.2	95.1	97.9	98.2	98.7	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		88.3	91.2	95.1	97.9	98.2	98.7	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

843

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-75

1AY

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	≥½	≥¼	≥10	≥.	≥0
NO CEILING		44.3	45.7	47.2	47.6	47.6	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥ 20000		30.5	51.9	53.8	54.6	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 18000		50.5	51.9	53.8	54.6	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 16000		50.5	51.9	53.8	54.6	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 14000		52.6	54.0	55.9	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 12000		57.0	58.6	60.5	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 10000		61.7	63.5	65.4	66.5	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 9000		64.7	66.8	68.7	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
IV 8000		65.9	68.0	69.9	71.0	71.1	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 7000		70.7	73.1	75.1	76.2	76.3	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 6000		74.9	77.6	79.7	80.9	81.0	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 5000		77.4	80.1	82.2	83.5	83.8	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 4500		79.0	82.0	84.7	86.3	86.5	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 4000		80.9	84.0	86.7	88.4	88.6	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 3500		83.1	86.1	89.2	90.9	91.1	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 3000		84.2	87.3	90.6	92.5	92.8	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 2500		85.0	88.0	91.4	93.5	93.8	94.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 2000		86.5	89.6	93.0	95.3	95.7	96.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 1800		86.8	89.9	93.5	95.7	96.4	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1500		87.2	90.3	94.0	96.3	97.0	97.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 1200		87.2	90.3	94.0	96.4	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1000		87.2	90.3	94.0	96.6	97.5	98.2	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 900		87.2	90.3	94.0	96.7	97.6	98.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 800		87.2	90.3	94.0	96.7	97.6	98.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 700		87.2	90.3	94.0	96.7	97.6	98.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 600		87.2	90.3	94.0	96.8	97.7	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 500		87.2	90.3	94.0	96.9	97.9	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400		87.2	90.3	94.1	97.0	98.0	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 300		87.2	90.3	94.1	97.0	98.2	98.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200		87.2	90.3	94.1	97.0	98.2	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		87.2	90.3	94.1	97.0	98.2	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		87.2	90.3	94.1	97.0	98.2	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 844

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JU
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ .	≥ 0	
NO CEILING		46.8	48.5	51.4	53.7	54.3	54.4	54.5	54.5	54.6	54.8	54.8	54.8	54.8	54.8	54.8
≥ 20000		51.7	53.7	57.5	60.0	60.6	60.8	60.9	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1
≥ 18000		51.7	53.7	57.5	60.0	60.6	60.8	60.9	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1
≥ 16000		51.7	53.7	57.5	60.0	60.6	60.8	60.9	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1
≥ 14000		52.9	54.9	58.7	61.3	61.9	62.0	62.1	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3
≥ 12000		54.8	56.7	60.5	63.2	63.8	63.9	64.0	64.0	64.1	64.3	64.3	64.3	64.3	64.3	64.3
≥ 10000		59.1	61.1	65.6	68.7	69.3	69.4	69.6	69.6	69.7	69.8	69.8	69.8	69.8	69.8	69.8
≥ 9000		61.3	63.3	67.9	71.0	71.6	71.7	71.8	71.8	72.0	72.1	72.1	72.1	72.1	72.1	72.1
≥ 8000		63.3	65.5	70.2	73.3	73.9	74.1	74.5	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000		66.7	69.1	73.8	77.1	77.7	78.1	78.5	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8
≥ 6000		70.6	73.0	77.9	81.5	82.1	82.4	82.9	83.0	83.2	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000		74.0	76.7	81.6	85.3	86.2	86.5	87.0	87.1	87.2	87.4	87.4	87.4	87.4	87.4	87.4
≥ 4500		76.1	78.8	83.9	87.6	88.4	88.8	89.3	89.4	89.5	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4000		77.0	79.8	85.2	89.0	89.9	90.3	90.7	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1
≥ 3500		78.0	80.9	86.3	90.1	91.0	91.3	91.9	92.1	92.2	92.3	92.3	92.3	92.3	92.3	92.3
≥ 3000		79.3	82.3	88.0	91.8	92.7	93.0	93.6	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2500		80.1	83.2	89.3	93.5	94.3	94.8	95.4	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2000		80.7	83.8	90.1	94.7	95.7	96.1	96.8	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1800		80.7	83.8	90.1	94.8	95.8	96.3	96.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1500		81.0	84.0	90.5	95.2	96.1	96.6	97.2	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1200		81.3	84.4	90.9	95.9	97.1	97.6	98.2	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000		81.3	84.4	90.9	96.0	97.4	97.8	98.4	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900		81.3	84.4	91.0	96.1	97.6	98.1	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800		81.3	84.4	91.0	96.1	97.6	98.1	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700		81.3	84.4	91.2	96.4	97.8	98.3	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		81.3	84.4	91.2	96.4	97.8	98.3	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		81.3	84.4	91.2	96.5	98.0	98.4	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		81.3	84.4	91.2	96.6	98.1	98.6	99.2	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300		81.3	84.4	91.2	97.0	98.4	98.9	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		81.3	84.4	91.2	97.0	98.4	98.9	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		81.3	84.4	91.2	97.0	98.4	98.9	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
0		81.3	84.4	91.2	97.0	98.4	98.9	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 831

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-70

JUL 1954
 0300-0500
 HOURS T.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1½	≥1	≥¾	≥¾	≥½	≥5/16	≥¼	≥0
NO CEILING	28.8	31.6	34.9	41.3	43.2	44.9	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.8
≥20000	33.8	37.5	40.9	48.3	50.7	52.7	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.6
IV 18000	33.9	37.6	41.0	48.4	50.8	52.8	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.7
IV 16000	33.9	37.6	41.0	48.4	50.8	52.8	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.7
IV 14000	34.1	37.9	41.3	48.6	51.0	53.1	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.0
IV 12000	37.2	41.4	44.8	52.1	54.6	56.7	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.6
IV 10000	40.7	45.0	49.2	57.1	59.6	61.9	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	65.3
IV 9000	42.1	46.6	51.0	59.1	61.6	63.9	66.5	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.3
IV 8000	43.5	48.0	52.6	60.7	63.3	65.7	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.5
IV 7000	44.9	49.4	54.4	62.5	65.5	68.0	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.3
IV 6000	47.9	52.8	58.3	67.1	70.3	73.2	76.6	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.7
IV 5000	51.9	56.8	62.5	71.8	75.0	78.2	81.8	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.6	83.1
IV 4500	53.3	58.4	64.3	74.2	77.4	80.7	84.3	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.2	85.6
IV 4000	55.2	60.3	66.5	76.7	80.2	83.7	87.3	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3	88.8
IV 3500	56.5	61.5	67.8	78.4	82.0	85.5	89.3	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.1	90.6
IV 3000	57.8	62.8	69.4	80.2	83.8	87.6	91.4	92.2	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.9
IV 2500	58.6	63.7	70.4	81.7	85.4	89.3	93.1	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.1	94.6
IV 2000	59.7	64.8	71.7	83.1	86.9	90.7	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.5	96.0
IV 1800	59.8	64.9	71.8	83.2	87.0	90.8	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.7	96.1
IV 1500	60.6	65.7	72.7	84.4	88.2	92.0	95.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9	97.3
IV 1200	60.6	65.7	73.0	84.7	88.5	92.4	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.7
IV 1000	60.8	66.0	73.2	84.9	88.8	92.8	96.7	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.7	98.2
IV 900	60.8	66.0	73.3	85.0	88.9	92.9	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.8	98.3
IV 800	60.8	66.0	73.3	85.0	88.9	92.9	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.8	98.3
IV 700	60.8	66.0	73.3	85.0	88.9	92.9	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.9	98.4
IV 600	60.8	66.0	73.3	85.0	88.9	92.9	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.9	98.4
IV 500	60.8	66.0	73.3	85.0	89.0	93.2	97.3	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.8
IV 400	60.8	66.0	73.3	85.0	89.0	93.2	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.7	99.2
IV 300	60.8	66.0	73.3	85.0	89.0	93.2	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.7	99.2
IV 200	60.8	66.0	73.3	85.0	89.1	93.4	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3	99.8
IV 100	60.8	66.0	73.3	85.0	89.1	93.4	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.5	100.0
IV 0	60.8	66.0	73.3	85.0	89.1	93.4	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 829

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JU
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-1800
HOURS (LT)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¼	≥0
NO CEILING		30.1	33.0	38.3	44.6	45.1	46.1	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.1
≥20000		37.2	40.5	46.8	53.6	54.2	55.7	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.9
IV 18000		37.2	40.5	46.8	53.7	54.3	55.9	56.7	56.8	56.9	56.9	56.9	56.9	56.9	56.9	57.0
IV 16000		37.5	40.7	47.1	54.0	54.6	56.1	56.9	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.3
IV 14000		38.1	41.3	47.8	54.8	55.4	56.9	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.1
IV 12000		41.5	45.1	51.8	59.4	60.2	61.7	62.6	62.8	62.9	62.9	62.9	62.9	62.9	62.9	63.0
IV 10000		44.0	48.4	55.7	63.9	65.2	67.3	68.5	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.9
IV 9000		45.9	50.5	58.1	66.5	67.8	69.9	71.1	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.4
IV 8000		46.1	50.8	58.4	67.0	68.3	70.4	71.5	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.9
IV 7000		47.2	52.0	60.0	68.5	69.8	71.9	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.5
IV 6000		50.2	55.0	63.3	73.0	74.2	76.6	77.9	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.5
IV 5000		54.1	59.0	67.9	78.0	79.4	82.0	83.4	83.6	83.8	83.8	83.8	83.8	83.8	83.8	84.0
IV 4500		55.9	60.8	69.7	79.7	81.1	83.8	85.2	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.8
IV 4000		58.1	63.0	72.1	82.4	83.8	86.8	88.2	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.8
IV 3500		58.3	63.2	72.4	82.8	84.2	87.1	88.6	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.2
IV 3000		59.6	64.5	73.8	84.4	86.1	89.2	90.7	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.3
IV 2500		60.2	65.3	74.6	85.5	87.2	90.6	92.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.7
IV 2000		61.4	66.7	76.0	86.9	88.6	92.2	93.7	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.3
IV 1800		61.8	67.2	76.5	87.4	89.1	92.6	94.1	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.7
IV 1500		63.1	68.5	77.9	89.1	91.0	94.6	96.4	96.6	96.8	96.8	96.8	96.8	96.8	96.8	97.0
IV 1200		63.5	68.9	78.3	89.8	91.7	95.3	97.1	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.7
IV 1000		63.8	69.2	78.9	90.4	92.3	95.9	97.7	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.2
IV 900		63.8	69.2	78.9	90.5	92.3	96.3	98.0	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.6
IV 800		63.8	69.2	78.9	90.6	92.6	96.4	98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7
IV 700		63.8	69.2	78.9	90.6	92.7	96.5	98.2	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.8
IV 600		63.8	69.2	78.9	90.7	92.9	96.6	98.5	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.2
IV 500		63.8	69.2	78.9	90.7	93.0	96.8	98.8	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.6
IV 400		63.8	69.2	78.9	90.7	93.0	96.8	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.9
IV 300		63.8	69.2	78.9	90.7	93.0	96.8	98.8	99.2	99.8	99.8	99.8	99.8	99.8	99.8	100.0
IV 200		63.8	69.2	78.9	90.7	93.0	96.8	98.8	99.2	99.8	99.8	99.8	99.8	99.8	99.8	100.0
IV 100		63.8	69.2	78.9	90.7	93.0	96.8	98.8	99.2	99.8	99.8	99.8	99.8	99.8	99.8	100.0
IV 0		63.8	69.2	78.9	90.7	93.0	96.8	98.8	99.2	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

854

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING		39.1	41.0	42.6	43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 20000		47.2	49.6	51.7	53.0	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 18000		47.4	49.7	51.8	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 16000		47.9	50.2	52.3	53.5	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 14000		48.5	50.9	53.0	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 12000		51.2	54.0	56.1	57.4	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IV 10000		54.7	57.8	60.3	61.8	62.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 9000		56.3	59.4	62.4	64.0	64.3	64.8	64.8	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9
IV 8000		57.0	60.5	63.2	65.0	65.4	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IV 7000		58.1	61.7	64.6	66.6	67.1	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9
IV 6000		61.2	65.0	68.2	70.5	71.1	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 5000		65.2	69.1	72.2	74.7	75.4	76.1	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4
IV 4500		66.1	70.0	73.2	75.6	76.3	77.0	77.2	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 4000		69.6	74.1	77.5	79.9	80.6	81.5	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 3500		72.1	76.4	80.3	82.7	83.4	84.3	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 3000		75.7	80.5	84.4	87.0	87.8	88.7	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 2500		78.2	83.3	87.3	90.0	90.8	91.8	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 2000		80.4	85.6	89.7	92.6	93.4	94.3	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 1800		81.2	86.5	90.6	93.6	94.4	95.4	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1500		82.5	88.1	92.3	95.5	96.3	97.3	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1200		83.5	89.2	93.4	96.6	97.6	98.6	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 1000		83.5	89.2	93.4	96.6	97.7	98.7	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900		83.5	89.2	93.4	96.6	97.7	98.7	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800		83.5	89.2	93.4	96.6	97.7	98.7	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 600		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		83.5	89.2	93.4	96.6	97.7	98.7	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 862

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0.16	≥0.1	≥0
NO CEILING		39.6	39.6	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 20000		50.9	51.0	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 18000		51.0	51.1	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 16000		51.1	51.3	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 14000		52.0	52.1	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
IV 12000		56.2	56.3	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
IV 10000		60.7	61.5	62.2	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 9000		62.1	62.9	63.7	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 8000		62.8	63.9	64.7	65.1	65.2	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
IV 7000		64.3	65.7	66.6	67.0	67.1	67.2	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 6000		68.8	70.5	71.5	71.9	72.0	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 5000		73.7	75.4	76.8	77.3	77.4	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 4500		76.8	78.6	80.1	80.7	80.8	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 4000		82.4	84.4	86.0	86.8	87.0	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 3500		85.4	87.4	89.0	89.8	90.0	90.2	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 3000		88.8	91.1	92.9	93.8	94.0	94.1	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 2500		89.4	91.8	93.9	94.7	95.1	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 2000		90.3	92.7	94.8	95.8	96.3	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 1800		90.8	93.2	95.4	96.4	96.9	97.1	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1500		91.1	93.5	95.8	96.9	97.4	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 1200		91.6	94.0	96.3	97.4	98.0	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1000		91.8	94.2	96.5	98.2	98.8	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 900		92.0	94.4	96.6	98.3	98.9	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 800		92.0	94.4	96.6	98.4	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 700		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

833

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

JUL

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	≥½	≥¼	≥5/16	≥1/8	≥0
NO CEILING	41.5	41.6	41.6	41.7	41.8	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 20000	52.7	52.8	53.0	53.1	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 18000	52.8	53.0	53.1	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
IV 16000	52.8	53.0	53.1	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
IV 14000	54.0	54.1	54.3	54.4	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 12000	57.8	58.1	58.3	58.4	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 10000	64.3	64.8	65.3	65.9	66.0	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IV 9000	65.9	66.4	67.2	67.7	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 8000	66.7	67.2	68.2	69.0	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 7000	69.4	69.7	71.0	71.7	71.9	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 6000	74.6	75.2	76.4	77.1	77.4	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 5000	81.0	81.6	82.9	83.6	83.9	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 4500	83.8	84.4	85.7	86.4	86.6	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 4000	86.8	87.8	89.1	90.2	90.5	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 3500	89.1	90.2	91.5	92.7	92.9	93.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 3000	91.2	92.4	94.1	95.5	95.7	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 2500	91.8	93.1	94.9	96.3	96.6	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 2000	92.5	94.0	95.7	97.2	97.4	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 1800	92.7	94.1	95.9	97.3	97.5	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 1500	93.0	94.5	96.4	98.0	98.2	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 1200	93.6	95.1	97.0	98.7	98.9	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1000	93.6	95.1	97.0	98.7	98.9	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 900	93.6	95.1	97.0	98.7	98.9	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 800	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 844

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JULY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1800-2000
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING		40.9	41.0	41.4	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 20000		56.0	56.8	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 18000		56.4	57.3	58.0	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 16000		56.4	57.3	58.0	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 14000		57.5	58.6	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IV 12000		60.5	61.8	62.7	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IV 10000		63.8	67.6	69.0	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 9000		67.6	69.5	71.6	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 8000		68.6	70.5	72.8	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 7000		71.9	73.8	76.1	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 6000		75.0	76.9	79.2	81.1	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 5000		79.6	81.7	84.1	86.1	86.4	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 4500		81.3	83.5	86.1	88.1	88.6	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 4000		84.7	86.9	89.5	91.6	92.1	92.3	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 3500		85.6	88.0	90.6	92.7	93.3	93.3	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2
IV 3000		86.2	88.7	91.7	94.2	94.8	95.0	95.5	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8
IV 2500		87.0	89.6	92.9	95.6	96.3	96.6	97.1	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3
IV 2000		87.4	90.1	93.5	96.2	97.1	97.3	97.8	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0
IV 1800		87.5	90.2	93.6	96.3	97.2	97.4	97.9	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1
IV 1500		87.9	90.7	94.5	97.2	98.0	98.2	98.8	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1
IV 1200		88.2	91.3	95.2	97.9	98.7	98.9	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8
IV 1000		88.2	91.3	95.2	98.0	98.8	99.1	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
IV 900		88.2	91.3	95.2	98.0	98.8	99.1	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
IV 800		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 700		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 600		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 500		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 400		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 300		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 200		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 100		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 0		88.2	91.3	95.2	98.1	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 848

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

JU 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	≥½	≥⅓	≥⅒	≥0	≥0
NO CEILING		47.2	47.8	48.6	49.1	49.3	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000		55.8	56.6	57.6	58.1	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
IV 18000		55.8	56.6	57.6	58.1	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
IV 16000		55.8	56.6	57.6	58.1	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
IV 14000		57.1	58.3	59.3	59.8	60.0	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 12000		59.5	60.7	62.1	62.8	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 10000		64.7	66.1	67.8	68.7	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 9000		66.4	68.1	69.8	71.0	71.4	71.5	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 8000		68.0	69.7	71.5	72.7	73.1	73.2	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 7000		72.0	73.9	75.8	77.1	77.5	77.7	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 6000		76.7	78.8	80.7	82.1	82.5	82.8	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 5000		80.2	82.4	84.4	85.9	86.4	86.7	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
IV 4500		82.8	85.0	86.9	88.5	89.1	89.3	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 4000		85.5	87.8	89.7	91.4	92.1	92.4	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 3500		86.3	88.6	90.5	92.4	93.1	93.3	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 3000		87.5	90.1	92.4	94.3	95.0	95.3	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 2500		88.2	90.8	93.3	95.4	96.2	96.5	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 2000		88.5	91.2	93.7	95.8	96.6	96.8	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1800		88.6	91.3	93.8	95.9	96.7	97.0	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1500		89.1	91.9	94.5	97.0	97.8	98.1	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1200		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1000		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 200		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 100		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 0		89.6	92.4	95.0	97.5	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 825

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200
UNITS

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ .	≥ 0	
NO CEILING		50.0	52.7	57.2	59.9	60.1	60.3	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.8	60.8	60.8
IV 20000		53.6	56.7	61.5	64.2	64.5	64.6	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1
IV 18000		53.6	56.7	61.5	64.2	64.5	64.6	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1
IV 16000		53.6	56.7	61.5	64.2	64.5	64.6	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1
IV 14000		54.1	57.2	62.4	65.1	65.3	65.5	65.7	65.7	65.8	65.8	65.8	65.8	66.0	66.0	66.0	66.0
IV 12000		55.8	59.3	64.5	67.2	67.5	67.6	67.8	67.8	67.9	67.9	67.9	67.9	68.1	68.1	68.1	68.1
IV 10000		59.9	63.4	68.8	72.0	72.3	72.6	72.9	73.0	73.1	73.1	73.1	73.1	73.3	73.3	73.3	73.3
IV 9000		61.6	65.1	70.5	74.0	74.3	74.6	74.9	75.0	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2
IV 8000		63.0	66.5	71.9	75.5	75.7	76.1	76.4	76.5	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.7
IV 7000		66.3	69.8	75.5	79.2	79.5	79.8	80.1	80.2	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4
IV 6000		69.4	72.9	78.6	82.4	82.7	83.0	83.3	83.4	83.5	83.5	83.5	83.5	83.7	83.7	83.7	83.7
IV 5000		72.5	76.2	82.1	85.9	86.1	86.5	86.8	86.9	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1
IV 4500		74.9	78.7	84.7	88.9	89.1	89.5	89.9	90.0	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2
IV 4000		76.5	80.3	86.6	90.8	91.1	91.5	91.8	92.0	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.2
IV 3500		76.7	80.6	87.3	91.7	92.0	92.3	92.7	92.8	92.9	92.9	92.9	92.9	93.1	93.1	93.1	93.1
IV 3000		77.2	81.1	88.2	92.8	93.1	93.6	94.1	94.2	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
IV 2500		78.5	82.5	89.9	94.4	94.7	95.3	95.8	95.9	96.0	96.0	96.0	96.0	96.2	96.2	96.2	96.2
IV 2000		79.0	83.2	90.7	95.3	95.5	96.2	96.7	96.8	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0
IV 1800		79.2	83.4	91.0	95.5	95.9	96.5	97.0	97.2	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4
IV 1500		79.5	83.7	91.2	95.9	96.3	96.9	97.4	97.5	97.6	97.6	97.6	97.6	97.8	97.8	97.8	97.8
IV 1200		79.5	83.7	91.2	96.4	96.9	97.5	98.1	98.3	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5
IV 1000		79.5	83.7	91.2	96.4	97.0	97.6	98.3	98.4	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6
IV 900		79.5	83.7	91.3	96.5	97.2	97.8	98.4	98.5	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8
IV 800		79.5	83.7	91.5	96.7	97.3	97.9	98.5	98.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
IV 700		79.5	83.7	91.5	96.7	97.3	97.9	98.5	98.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
IV 600		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
IV 500		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
IV 400		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
IV 300		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
IV 200		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
IV 100		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
IV 0		79.5	83.7	91.5	96.8	97.4	98.0	98.6	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 808

DATA PROCESSING BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL

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	≥¾	≥½	≥5/16	≥¼	≥0
NO CEILING		27.0	30.5	36.4	43.2	45.6	47.4	49.8	50.2	50.3	50.8	50.8	50.8	50.8	50.8	50.8
≥ 20000		31.0	34.9	41.2	48.4	50.9	53.1	55.6	56.0	56.1	56.6	56.6	56.7	56.7	56.7	56.7
≥ 18000		31.0	34.9	41.2	48.4	50.9	53.1	55.6	56.0	56.1	56.6	56.6	56.7	56.7	56.7	56.7
≥ 16000		31.0	34.9	41.2	48.4	50.9	53.1	55.6	56.0	56.1	56.6	56.6	56.7	56.7	56.7	56.7
≥ 14000		31.4	35.4	41.8	49.0	51.5	53.7	56.2	56.6	56.7	57.2	57.2	57.3	57.3	57.3	57.3
≥ 12000		34.8	38.9	45.9	53.4	56.0	58.2	60.8	61.2	61.3	61.8	61.8	61.9	61.9	61.9	61.9
IV 10000		38.1	42.6	50.1	58.5	61.1	63.4	66.0	66.5	66.6	67.1	67.2	67.4	67.4	67.4	67.4
IV 9000		40.4	44.9	52.4	60.9	63.6	65.9	68.6	69.0	69.2	69.6	69.8	69.9	69.9	69.9	69.9
IV 8000		42.0	46.6	54.2	62.8	65.4	67.7	70.4	70.9	71.0	71.5	71.6	71.7	71.7	71.7	71.7
IV 7000		43.8	48.6	56.7	65.4	68.1	70.4	73.0	73.5	73.8	74.2	74.4	74.5	74.5	74.5	74.5
IV 6000		46.6	51.4	60.0	69.3	71.9	74.4	77.0	77.6	78.0	78.5	78.6	78.7	78.7	78.7	78.7
IV 5000		50.4	55.9	64.9	75.1	77.9	80.7	83.4	84.0	84.4	84.9	85.0	85.1	85.1	85.1	85.1
IV 4500		51.8	57.2	66.6	76.8	79.7	82.6	85.5	86.1	86.5	86.9	87.1	87.2	87.2	87.2	87.2
IV 4000		53.0	59.0	68.9	79.6	82.7	86.0	89.1	89.7	90.1	90.6	90.7	90.8	90.8	90.9	90.9
IV 3500		53.3	59.6	69.5	80.2	83.3	86.6	89.7	90.3	90.7	91.2	91.3	91.4	91.4	91.5	91.5
IV 3000		54.7	61.1	71.2	82.1	85.2	88.6	91.8	92.4	92.7	93.2	93.3	93.5	93.5	93.6	93.6
IV 2500		56.1	62.6	72.8	83.9	87.1	90.4	93.7	94.3	94.7	95.2	95.3	95.4	95.4	95.5	95.5
IV 2000		56.8	63.4	73.5	84.8	88.0	91.4	94.7	95.3	95.6	96.1	96.2	96.4	96.4	96.5	96.5
IV 1800		56.8	63.5	73.6	84.9	88.3	91.7	94.9	95.5	95.9	96.4	96.5	96.6	96.6	96.7	96.7
IV 1500		57.2	63.8	74.0	85.4	88.8	92.1	95.5	96.3	96.6	97.1	97.2	97.3	97.3	97.5	97.5
IV 1200		57.2	63.8	74.0	85.4	88.8	92.3	95.9	96.6	97.1	97.6	97.7	97.8	97.8	97.9	97.9
IV 1000		57.2	63.8	74.0	85.5	88.9	92.4	96.0	96.7	97.2	97.7	97.8	97.9	97.9	98.1	98.1
IV 900		57.2	63.8	74.0	85.5	88.9	92.4	96.0	96.7	97.2	97.7	97.8	97.9	97.9	98.1	98.1
IV 800		57.2	63.8	74.0	85.5	88.9	92.4	96.0	96.7	97.2	97.7	97.8	97.9	97.9	98.1	98.1
IV 700		57.2	63.8	74.0	85.5	88.9	92.4	96.1	96.9	97.3	97.8	97.9	98.1	98.1	98.2	98.2
IV 600		57.2	63.8	74.0	85.5	88.9	92.4	96.3	97.0	97.5	97.9	98.1	98.2	98.2	98.3	98.3
IV 500		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6	98.1	98.2	98.3	98.3	98.4	98.4
IV 400		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6	98.1	98.2	98.3	98.3	98.4	98.4
IV 300		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6	98.1	98.2	98.3	98.3	98.4	98.4
IV 200		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6	98.1	98.2	98.3	98.3	98.4	98.4
IV 100		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6	98.1	98.2	98.3	98.3	98.4	98.4
IV 0		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6	98.1	98.2	98.3	98.3	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 827

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥1	≥½	≥½	≥½	≥1/16	≥.	≥0
NO CEILING		26.1	29.5	35.3	41.9	44.8	45.7	47.0	47.0	47.1	47.4	47.4	47.5	47.5	47.5	47.5
≥ 20000		30.0	34.3	41.0	48.1	51.0	51.9	53.3	53.3	53.5	53.7	53.7	53.8	53.8	53.8	53.9
IV 18000		30.0	34.3	41.1	48.3	51.2	52.2	53.6	53.6	53.7	53.9	53.9	54.0	54.0	54.0	54.0
IV 16000		30.0	34.3	41.1	48.3	51.2	52.2	53.6	53.6	53.7	53.9	53.9	54.0	54.0	54.0	54.0
IV 14000		30.2	34.8	41.6	48.9	51.9	52.9	54.3	54.3	54.4	54.6	54.6	54.7	54.7	54.7	54.7
IV 12000		32.1	36.9	44.1	51.9	55.2	56.3	57.7	57.7	57.8	58.0	58.0	58.1	58.1	58.1	58.1
IV 10000		36.2	41.5	49.5	58.0	61.5	62.7	64.2	64.2	64.4	64.6	64.6	64.7	64.7	64.7	64.7
IV 9000		38.9	44.3	52.5	61.1	64.7	65.9	67.4	67.4	67.5	67.8	67.8	67.9	67.9	67.9	67.9
IV 8000		39.9	45.4	53.7	62.4	66.1	67.3	68.8	68.8	68.9	69.2	69.2	69.3	69.3	69.3	69.3
IV 7000		42.3	48.1	57.1	65.9	69.6	70.8	72.3	72.3	72.5	72.7	72.7	72.8	72.8	72.8	72.8
IV 6000		46.2	52.5	62.1	71.7	75.7	77.0	78.7	78.7	78.8	79.0	79.0	79.1	79.1	79.1	79.1
IV 5000		50.3	57.1	67.1	77.1	81.5	83.0	84.8	84.8	84.9	85.1	85.1	85.3	85.3	85.3	85.3
IV 4500		51.6	58.4	68.5	78.6	83.2	84.8	86.5	86.5	86.6	86.9	86.9	87.1	87.1	87.1	87.1
IV 4000		53.6	60.5	70.6	81.1	85.6	87.1	89.0	89.0	89.1	89.3	89.4	89.7	89.7	89.7	89.7
IV 3500		54.2	61.4	71.5	82.2	86.6	88.2	90.2	90.2	90.3	90.5	90.6	90.9	90.9	90.9	90.9
IV 3000		55.1	62.1	73.0	83.7	88.3	89.8	91.9	92.0	92.1	92.4	92.5	92.7	92.7	92.7	92.7
IV 2500		56.0	63.1	74.0	84.6	89.3	90.9	93.1	93.2	93.3	93.6	93.7	93.9	93.9	93.9	93.9
IV 2000		57.3	64.4	75.3	86.5	91.2	92.8	95.1	95.2	95.3	95.5	95.7	95.9	95.9	95.9	95.9
IV 1800		57.7	64.7	75.7	87.0	91.7	93.3	95.5	95.7	95.8	96.0	96.1	96.4	96.4	96.4	96.4
IV 1500		57.7	64.7	75.7	87.0	91.7	93.4	96.0	96.2	96.4	96.6	96.7	97.0	97.0	97.0	97.0
IV 1200		57.8	64.8	75.8	87.2	92.0	93.9	96.6	96.8	97.0	97.2	97.3	97.5	97.5	97.5	97.5
IV 1000		57.8	64.8	76.0	87.5	92.6	94.6	97.4	97.7	97.8	98.0	98.1	98.4	98.4	98.4	98.4
IV 900		57.8	64.8	76.0	87.5	92.6	94.6	97.4	97.7	97.8	98.0	98.1	98.4	98.4	98.4	98.4
IV 800		57.8	64.8	76.0	87.5	92.6	94.6	97.4	97.7	97.8	98.0	98.1	98.4	98.4	98.4	98.4
IV 700		57.8	64.8	76.0	87.5	92.6	94.6	97.4	97.7	97.8	98.0	98.1	98.4	98.4	98.4	98.4
IV 600		57.8	64.8	76.0	87.5	92.6	94.6	97.7	97.9	98.1	98.4	98.5	98.7	98.7	98.7	98.7
IV 500		57.8	64.8	76.0	87.5	92.7	94.8	97.9	98.1	98.4	98.6	98.7	98.9	98.9	98.9	98.9
IV 400		57.8	64.8	76.0	87.5	92.7	95.0	98.1	98.4	98.6	98.9	99.1	99.3	99.3	99.3	99.3
IV 300		57.8	64.8	76.0	87.5	92.7	95.0	98.2	98.6	98.8	99.3	99.4	99.6	99.6	99.6	99.6
IV 200		57.8	64.8	76.0	87.5	92.7	95.0	98.2	98.6	98.8	99.3	99.5	99.8	99.8	99.8	99.8
IV 100		57.8	64.8	76.0	87.5	92.7	95.0	98.2	98.6	98.8	99.4	99.6	99.9	99.9	99.9	100.0
IV 0		57.8	64.8	76.0	87.5	92.7	95.0	98.2	98.6	98.8	99.4	99.6	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS

853

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥¼	≥10	≥1	≥0	
NO CEILING		39.1	41.9	45.1	47.4	47.9	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
IV 20000		45.0	48.0	51.4	54.1	54.6	54.6	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IV 18000		45.0	48.0	51.4	54.1	54.6	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IV 16000		45.0	48.0	51.4	54.1	54.6	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IV 14000		45.5	48.6	52.0	54.7	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
IV 12000		47.8	50.9	54.9	58.2	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 10000		53.5	57.0	61.3	64.6	65.0	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 9000		55.0	58.7	63.3	66.9	67.5	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 8000		55.9	59.7	64.4	68.1	68.7	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 7000		58.6	62.6	67.5	71.4	72.1	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 6000		61.7	65.8	71.0	75.0	75.8	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 5000		64.9	69.5	75.0	79.7	80.5	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 4500		65.1	70.7	76.3	81.1	81.9	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 4000		68.8	73.7	79.6	84.9	85.7	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 3500		70.4	75.4	81.2	86.6	87.4	87.9	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 3000		73.5	78.5	84.5	90.1	91.0	91.5	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 2500		75.0	80.2	86.3	92.3	93.2	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 2000		76.3	81.6	87.8	94.0	95.1	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1800		76.6	81.9	88.1	94.4	95.4	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 1500		77.2	82.5	89.0	95.4	96.5	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1200		77.7	83.0	89.4	96.2	97.3	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1000		77.7	83.0	89.4	96.2	97.3	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 900		77.7	83.0	89.4	96.2	97.3	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 800		77.7	83.1	89.6	96.4	97.4	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 700		77.7	83.1	89.6	96.4	97.5	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 600		77.7	83.1	89.6	96.4	97.7	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500		77.7	83.1	89.6	96.4	97.8	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400		77.7	83.1	89.6	96.4	97.8	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 300		77.7	83.1	89.6	96.4	97.8	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200		77.7	83.1	89.6	96.4	97.8	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100		77.7	83.1	89.6	96.4	97.8	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV C		77.7	83.1	89.6	96.4	97.8	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 852

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

JULY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400 HOUR

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING		45.9	46.4	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 20000		54.3	55.1	55.7	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 16000		54.3	55.1	55.7	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 14000		55.0	55.7	56.3	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 12000		56.9	57.7	58.6	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IV 10000		62.7	63.4	64.4	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 9000		63.9	64.8	65.8	66.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 8000		64.8	65.6	66.7	67.6	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 7000		67.4	68.0	69.9	70.8	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 6000		71.6	73.0	74.3	75.4	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 5000		78.3	79.8	81.1	82.3	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IV 4500		81.0	82.9	84.0	85.2	85.7	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 4000		85.1	86.6	88.7	89.6	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 3500		87.3	89.0	90.7	92.3	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 3000		90.4	92.1	93.9	95.7	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 2500		91.2	92.8	94.7	96.5	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 2000		91.9	93.8	95.5	97.4	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 1800		92.3	94.0	96.0	97.9	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 1500		92.6	94.4	96.4	98.4	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 1200		92.6	94.4	96.4	98.5	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1000		92.6	94.4	96.4	98.5	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 900		92.6	94.4	96.4	98.5	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800		92.6	94.4	96.4	98.5	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700		92.6	94.4	96.4	98.5	99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600		92.6	94.4	96.4	98.5	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500		92.6	94.4	96.4	98.5	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400		92.6	94.4	96.4	98.5	99.1	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300		92.6	94.4	96.4	98.5	99.1	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		92.6	94.4	96.4	98.5	99.1	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		92.6	94.4	96.4	98.5	99.1	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		92.6	94.4	96.4	98.5	99.1	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 806

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

100-700
HOURS LST

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.3	≥.2	≥.16	≥.1	≥0
NO CEILING																
≥ 20000		46.5	47.4	48.0	48.5	48.5	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
18000		57.8	58.3	58.9	59.4	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
16000		57.8	58.3	58.9	59.4	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
14000		59.4	59.5	60.6	61.1	61.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
12000		61.3	62.6	63.5	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
10000		67.3	68.0	68.9	69.5	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
9000		69.4	70.4	71.4	72.0	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
8000		71.1	72.2	73.2	73.8	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
7000		74.2	75.3	76.7	77.3	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
6000		80.9	82.1	83.6	84.2	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
5000		84.7	86.2	87.7	88.3	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
4500		86.2	87.7	89.3	89.9	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
4000		89.0	90.7	92.6	93.3	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
3500		90.1	92.1	94.0	94.9	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
3000		90.4	92.3	94.3	95.4	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2500		91.6	93.6	95.6	96.7	97.3	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2000		92.0	94.0	96.0	97.3	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
1800		92.0	94.0	96.0	97.4	98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
1500		92.1	94.1	96.4	97.8	98.6	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
1200		92.1	94.1	96.4	97.8	98.6	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1000		92.1	94.1	96.4	97.8	98.6	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
800		92.1	94.1	96.5	97.9	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700		92.1	94.1	96.5	97.9	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
600		92.1	94.1	96.5	97.9	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
500		92.1	94.1	96.5	97.9	98.8	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
400		92.1	94.1	96.5	97.9	98.9	99.3	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
300		92.1	94.1	96.5	97.9	98.9	99.3	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
200		92.1	94.1	96.5	97.9	98.9	99.3	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
100		92.1	94.1	96.5	97.9	98.9	99.3	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
0		92.1	94.1	96.5	97.9	98.9	99.3	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-75 YEARS

JUL 1600-2000

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	48.9	49.9	50.5	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
≥ 20000	60.6	61.9	62.9	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 18000	60.9	62.3	63.3	64.1	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 16000	61.1	62.4	63.4	64.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 14000	62.3	63.6	64.6	65.5	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
IV 12000	64.4	65.7	66.8	67.7	67.9	67.9	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 10000	67.8	69.5	71.0	72.0	72.5	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 9000	69.7	71.4	73.2	74.2	74.7	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 8000	71.4	73.2	75.1	76.0	76.7	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 7000	73.8	75.7	77.6	78.7	79.4	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IV 6000	79.2	81.2	83.2	84.3	84.9	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 5000	81.9	83.9	85.9	87.0	87.7	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 4500	84.3	86.4	88.2	89.3	90.0	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 4000	87.2	89.6	91.6	92.8	93.5	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 3500	88.6	90.9	93.0	94.1	95.0	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 3000	89.4	91.8	93.9	95.0	95.9	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 2500	90.3	92.6	94.7	95.9	96.9	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 2000	90.3	93.2	95.5	96.8	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 1800	90.8	93.2	95.3	96.8	97.8	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1500	90.8	93.2	95.6	96.9	97.9	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 1200	90.8	93.2	95.6	96.9	97.9	98.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1000	90.8	93.2	95.6	96.9	97.9	98.4	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 800	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 500	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 300	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 200	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 100	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 0	90.8	93.2	95.7	97.1	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 814

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300
LOCAL TIME

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING ≥ 2000'	53.1	55.2	57.3	57.9	58.2	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 18000	57.7	60.0	62.7	63.4	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IV 16000	57.7	60.0	62.7	63.4	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IV 14000	58.5	60.9	63.6	64.2	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 12000	60.3	62.7	65.6	66.2	66.6	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 10000	65.0	67.7	70.7	71.5	71.9	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 9000	67.0	69.9	72.9	73.9	74.3	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 8000	68.3	71.3	74.4	75.4	75.7	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 7000	71.5	74.8	78.1	79.2	79.6	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 6000	76.5	80.1	83.4	84.8	85.1	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 5000	80.6	84.2	87.7	89.2	89.6	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 4500	82.7	86.4	90.2	91.6	92.2	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
IV 4000	84.7	88.5	92.3	93.9	94.4	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 3500	85.1	89.1	92.9	94.7	95.2	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 3000	85.6	89.6	93.4	95.3	95.9	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 2500	86.4	90.3	94.3	96.2	96.9	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 2000	86.8	90.7	94.7	96.7	97.4	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 1800	86.9	90.8	94.9	96.9	97.6	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 1500	87.0	91.0	95.0	97.2	97.9	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 1200	87.1	91.1	95.2	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1000	87.1	91.1	95.2	97.4	98.4	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 900	87.1	91.2	95.3	97.5	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	87.1	91.2	95.3	97.5	98.5	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700	87.1	91.2	95.3	97.5	98.5	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600	87.1	91.2	95.3	97.5	98.5	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 500	87.3	91.3	95.4	97.6	98.6	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	87.3	91.3	95.4	97.6	98.6	99.1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	87.3	91.3	95.4	97.6	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	87.3	91.3	95.4	97.6	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	87.3	91.3	95.4	97.6	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	87.3	91.3	95.4	97.6	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

806

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-2000
 HOURS UTC

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1½	≥1	≥¾	≥¾	≥½	≥½	≥¼	≥0
NO CEILING		45.6	49.1	53.8	56.7	57.2	57.8	58.3	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 20000	49.0	52.5	57.5	60.5	61.0	62.0	62.5	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 18000	49.1	52.6	57.6	60.6	61.1	62.1	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IV 16000	49.1	52.6	57.6	60.6	61.1	62.1	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IV 14000	50.1	53.6	58.6	61.6	62.1	63.1	63.5	63.5	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 12000	53.1	57.1	62.5	65.9	66.3	67.3	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 10000	56.7	62.0	68.8	72.7	73.4	74.5	75.2	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 9000	58.1	63.3	70.1	74.1	74.8	76.1	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
IV 8000	58.9	64.3	71.4	75.7	76.7	77.9	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 7000	61.6	67.3	74.6	78.9	80.1	81.3	82.3	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 6000	63.7	69.4	77.3	81.7	82.9	84.1	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 5000	65.1	70.8	79.1	83.6	84.8	86.0	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 4500	66.6	72.3	80.7	85.2	86.5	87.7	88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 4000	67.9	74.0	82.4	87.0	88.3	89.6	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
IV 3500	68.7	75.2	83.6	88.3	89.7	90.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
IV 3000	68.9	75.6	84.0	88.9	90.4	91.7	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 2500	69.0	75.7	84.2	89.3	91.0	92.3	93.3	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 2000	69.6	76.4	85.1	90.2	92.0	93.3	94.4	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 1800	69.9	76.7	85.3	90.4	92.2	93.6	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 1500	70.6	77.4	86.3	91.5	93.7	95.1	96.4	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 1200	71.0	77.8	86.9	92.1	94.3	95.7	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 1000	71.0	77.8	87.0	92.3	94.8	96.2	97.6	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 900	71.0	77.8	87.0	92.3	94.8	96.2	97.6	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 800	71.0	77.8	87.0	92.3	94.8	96.4	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 700	71.0	77.8	87.0	92.3	95.0	96.5	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	71.0	77.8	87.2	92.6	95.3	96.7	98.4	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 500	71.0	77.8	87.2	92.6	95.3	96.8	98.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 400	71.0	77.8	87.2	92.6	95.3	96.8	98.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 300	71.0	77.8	87.2	92.6	95.6	97.2	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 200	71.0	77.8	87.2	92.6	95.7	97.3	99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 100	71.0	77.8	87.2	92.6	95.7	97.3	99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 0	71.0	77.8	87.2	92.6	95.7	97.3	99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 823

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AJL
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0300-0500
 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		30.0	39.0	38.7	45.2	46.8	48.5	51.1	51.8	51.8	51.8	51.9	51.9	51.9	52.1	52.3
≥20000		33.0	37.3	43.4	50.9	52.6	54.8	57.5	58.2	58.2	58.2	58.3	58.3	58.3	58.4	58.6
IV 18000		33.0	37.3	43.4	50.9	52.6	54.8	57.5	58.2	58.2	58.2	58.3	58.3	58.3	58.4	58.6
IV 16000		33.0	37.3	43.4	50.9	52.6	54.8	57.5	58.2	58.2	58.2	58.3	58.3	58.3	58.4	58.6
IV 14000		33.4	37.6	43.9	51.5	53.2	55.5	58.2	58.9	58.9	58.9	59.0	59.0	59.0	59.1	59.3
IV 12000		35.6	40.1	47.0	55.0	57.0	59.2	62.4	63.2	63.2	63.2	63.3	63.5	63.5	63.6	63.8
IV 10000		38.9	44.2	51.8	60.9	63.3	65.9	69.3	70.3	70.3	70.3	70.4	70.5	70.5	70.6	70.9
IV 9000		41.0	46.7	54.4	63.6	66.2	68.7	72.5	73.6	73.6	73.6	73.7	73.8	73.8	73.9	74.1
IV 8000		42.1	47.8	55.9	65.1	67.8	70.4	74.3	75.3	75.3	75.3	75.4	75.6	75.6	75.7	75.9
IV 7000		43.6	49.7	58.3	67.7	70.4	73.1	77.0	78.1	78.1	78.1	78.3	78.4	78.4	78.5	78.7
IV 6000		45.5	51.7	60.4	70.3	73.1	75.8	79.9	81.1	81.2	81.2	81.3	81.4	81.4	81.5	81.8
IV 5000		47.1	53.7	62.6	72.9	75.7	78.4	82.6	83.8	84.0	84.0	84.1	84.2	84.3	84.4	84.6
IV 4500		47.8	54.4	63.7	74.0	76.9	79.6	83.8	85.0	85.2	85.2	85.3	85.4	85.4	85.5	85.8
IV 4000		49.1	55.7	65.0	75.7	78.5	81.2	85.7	86.8	87.1	87.1	87.2	87.3	87.3	87.4	87.7
IV 3500		49.4	55.9	65.3	76.3	79.2	81.9	86.5	87.7	87.9	87.9	88.0	88.1	88.1	88.2	88.5
IV 3000		50.1	56.6	66.3	77.3	80.4	83.2	87.8	89.0	89.2	89.2	89.3	89.4	89.4	89.5	89.8
IV 2500		51.1	58.0	68.2	79.7	83.0	85.8	90.5	91.7	91.9	91.9	92.0	92.1	92.1	92.2	92.5
IV 2000		51.9	59.0	69.2	80.6	84.3	87.1	91.8	92.9	93.2	93.2	93.3	93.4	93.4	93.5	93.8
IV 1800		52.2	59.2	69.6	81.2	84.6	87.4	92.1	93.3	93.5	93.5	93.7	93.8	93.8	93.9	94.1
IV 1500		52.6	59.9	70.5	83.0	86.5	89.3	94.2	95.5	95.8	95.8	95.9	96.0	96.0	96.1	96.4
IV 1200		52.6	59.9	70.9	83.4	87.0	89.8	94.9	96.2	96.5	96.5	96.6	96.7	96.7	96.8	97.1
IV 1000		52.6	60.0	71.0	83.5	87.1	89.9	95.4	96.7	96.9	96.9	97.1	97.2	97.2	97.3	97.5
IV 900		52.6	60.0	71.0	83.5	87.1	89.9	95.4	96.7	96.9	96.9	97.1	97.2	97.2	97.3	97.5
IV 800		52.6	60.0	71.0	83.7	87.2	90.0	95.5	96.8	97.1	97.1	97.2	97.3	97.3	97.4	97.6
IV 700		52.6	60.0	71.1	83.8	87.3	90.1	95.7	96.9	97.2	97.2	97.3	97.4	97.4	97.5	97.8
IV 600		52.6	60.0	71.1	83.8	87.3	90.1	95.8	97.1	97.3	97.3	97.4	97.5	97.5	97.6	97.9
IV 500		52.6	60.0	71.1	84.0	87.5	90.5	96.1	97.4	97.6	97.6	97.8	97.9	97.9	98.0	98.2
IV 400		52.6	60.0	71.1	84.0	87.5	90.7	96.4	97.8	98.0	98.0	98.1	98.2	98.2	98.4	98.6
IV 300		52.6	60.0	71.1	84.1	87.8	91.0	96.7	98.1	98.5	98.5	98.6	98.7	98.7	98.9	99.2
IV 200		52.6	60.0	71.1	84.1	87.8	91.0	96.7	98.1	98.6	98.6	98.7	98.8	98.8	99.1	99.3
IV 100		52.6	60.0	71.1	84.1	87.8	91.0	96.7	98.1	98.6	98.6	98.7	98.8	99.1	99.3	99.6
IV 0		52.6	60.0	71.1	84.1	87.8	91.0	96.7	98.1	98.6	98.6	98.7	98.8	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 851

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

AU MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 HOURS CST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		25.6	28.3	33.1	40.4	41.6	42.9	44.3	44.4	44.5	44.5	44.5	44.5	44.7	44.7	44.7
≥ 20000		31.8	35.4	41.1	50.2	51.9	53.6	55.2	55.3	55.6	55.6	55.6	55.6	55.7	55.7	55.7
≥ 18000		31.9	35.5	41.2	50.3	52.0	53.7	55.3	55.5	55.7	55.7	55.7	55.7	55.8	55.8	55.8
≥ 16000		31.9	35.5	41.2	50.3	52.0	53.7	55.3	55.5	55.7	55.7	55.7	55.7	55.8	55.8	55.8
≥ 14000		31.9	35.8	41.9	51.3	52.9	54.9	56.6	56.7	57.0	57.0	57.0	57.0	57.1	57.1	57.1
≥ 12000		34.8	39.2	45.6	55.6	57.3	59.4	62.2	62.4	62.6	62.6	62.6	62.6	62.8	62.8	62.9
≥ 10000		37.9	42.9	49.5	60.8	62.9	65.3	68.6	68.8	69.0	69.0	69.0	69.0	69.1	69.1	69.3
≥ 9000		38.7	44.0	50.8	62.5	64.6	67.1	70.3	70.8	71.0	71.0	71.0	71.0	71.1	71.1	71.2
≥ 8000		39.0	44.2	51.2	62.9	65.3	67.9	71.1	71.6	71.8	71.8	71.8	71.8	71.9	71.9	72.0
≥ 7000		40.4	45.9	53.6	65.5	68.1	70.6	74.0	74.5	74.7	74.7	74.7	74.7	74.7	74.8	74.9
≥ 6000		41.4	47.1	54.8	66.8	69.5	72.4	75.9	76.3	76.6	76.6	76.6	76.6	76.7	76.7	76.8
≥ 5000		42.7	48.7	56.6	69.3	72.0	75.1	78.8	79.4	79.8	79.8	79.8	79.8	79.9	79.9	80.0
≥ 4500		43.2	49.2	57.4	70.1	72.9	75.9	79.7	80.3	80.7	80.7	80.7	80.7	80.9	80.9	81.0
≥ 4000		44.3	50.5	59.4	72.3	75.4	78.5	82.4	83.1	83.5	83.5	83.5	83.5	83.6	83.6	83.8
≥ 3500		45.1	51.3	60.3	73.3	76.5	79.7	83.8	84.5	84.9	84.9	84.9	84.9	85.0	85.0	85.2
≥ 3000		45.8	52.1	61.8	75.6	79.1	82.5	86.5	87.2	87.7	87.7	87.7	87.7	87.8	87.8	87.9
≥ 2500		46.9	53.4	63.5	77.8	81.4	84.8	89.3	90.0	90.5	90.5	90.5	90.5	90.6	90.6	90.7
≥ 2000		48.0	54.6	64.7	79.6	83.2	86.5	91.1	91.9	92.3	92.3	92.3	92.3	92.5	92.5	92.6
≥ 1800		48.3	54.9	65.0	79.9	83.6	87.0	91.5	92.3	92.8	92.8	92.8	92.8	92.9	92.9	93.0
≥ 1500		48.7	55.3	65.5	80.6	84.3	87.7	92.2	93.3	93.9	93.9	93.9	93.9	94.0	94.0	94.1
≥ 1200		49.3	55.9	66.4	81.4	85.2	88.6	93.3	94.4	95.0	95.0	95.0	95.0	95.1	95.1	95.2
≥ 1000		49.4	56.0	66.5	81.6	85.3	89.0	93.7	95.0	95.6	95.6	95.6	95.6	95.7	95.7	95.8
≥ 900		49.4	56.0	66.5	81.6	85.3	89.0	93.9	95.1	95.7	95.7	95.7	95.7	95.8	95.8	95.9
≥ 800		49.4	56.0	66.6	81.7	85.4	89.1	94.0	95.2	95.9	95.9	95.9	95.9	96.1	96.1	96.2
≥ 700		49.4	56.0	66.6	81.7	85.5	89.2	94.2	95.5	96.2	96.2	96.2	96.2	96.3	96.3	96.4
≥ 600		49.4	56.0	66.6	81.7	85.5	89.2	94.2	95.6	96.4	96.4	96.4	96.4	96.5	96.5	96.6
≥ 500		49.4	56.0	66.6	81.8	85.6	89.4	94.4	95.9	96.8	96.8	96.8	96.8	96.9	96.9	97.0
≥ 400		49.4	56.0	66.7	82.0	85.8	89.8	94.9	96.5	97.3	97.3	97.3	97.3	97.4	97.4	97.8
≥ 300		49.4	56.0	66.8	82.1	86.0	89.9	95.1	96.9	97.9	97.9	97.9	97.9	98.0	98.0	98.7
≥ 200		49.4	56.0	66.8	82.1	86.0	89.9	95.2	97.0	98.3	98.3	98.3	98.3	98.4	98.4	99.2
≥ 100		49.4	56.0	66.8	82.1	86.0	89.9	95.2	97.0	98.3	98.3	98.3	98.3	98.8	98.8	99.2
≥ 0		49.4	56.0	66.8	82.1	86.0	89.9	95.2	97.0	98.3	98.3	98.3	98.3	98.8	98.8	99.2

TOTAL NUMBER OF OBSERVATIONS 862

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

ALL MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		38.9	41.4	45.1	47.8	48.1	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 20000		46.2	49.4	54.1	57.1	57.7	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 18000		46.5	49.7	54.3	57.3	57.9	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 16000		46.5	49.7	54.3	57.3	57.9	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 14000		47.3	50.6	55.4	58.4	58.9	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
IV 12000		50.3	54.0	59.3	62.6	63.4	63.8	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 10000		52.9	56.5	62.0	66.5	67.5	68.0	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 9000		54.2	58.0	63.8	68.5	69.7	70.1	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 8000		54.6	58.5	64.3	69.0	70.4	70.8	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
IV 7000		55.4	59.3	65.1	69.8	71.2	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 6000		57.6	61.6	67.6	72.4	73.8	74.3	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 5000		60.5	64.8	71.2	76.1	77.5	77.9	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 4500		61.4	65.7	72.1	77.0	78.4	78.8	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 4000		63.4	68.0	74.9	80.1	81.5	81.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 3500		64.4	69.0	76.2	81.8	83.3	83.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 3000		66.0	70.9	78.6	84.2	85.7	86.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 2500		68.0	73.1	81.4	87.2	88.9	89.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV 2000		70.0	75.3	83.8	89.9	91.8	92.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1800		70.7	76.1	84.7	90.8	92.7	93.5	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 1500		71.2	76.8	85.8	92.1	93.9	94.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 1200		71.3	76.9	85.9	92.2	94.2	95.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1000		71.3	76.9	86.0	92.4	94.4	95.2	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 900		71.3	76.9	86.0	92.4	94.4	95.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 800		71.3	76.9	86.0	92.6	94.6	95.5	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 700		71.3	76.9	86.0	92.6	94.6	95.5	98.4	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 600		71.3	76.9	86.0	92.6	94.6	95.5	98.4	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 500		71.3	76.9	86.0	92.6	94.6	95.5	98.5	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 400		71.3	76.9	86.0	92.6	94.6	95.5	98.5	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300		71.3	76.9	86.0	92.6	94.6	95.7	98.7	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200		71.3	76.9	86.0	92.6	94.6	95.7	98.7	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100		71.3	76.9	86.0	92.6	94.6	95.7	98.7	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0		71.3	76.9	86.0	92.6	94.6	95.7	98.7	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 874

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-70
YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LT

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0.16	≥0	≥0
NO CEILING		43.3	45.2	46.4	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
IV 20000		56.6	58.2	59.5	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
IV 18000		56.7	58.3	59.6	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
IV 16000		56.7	58.3	59.6	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
IV 14000		58.0	59.9	61.3	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 12000		62.0	64.5	66.0	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 10000		65.9	69.0	70.9	72.8	73.0	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 9000		66.7	69.8	71.7	73.7	74.0	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 8000		67.1	70.2	72.2	74.4	74.7	74.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 7000		68.5	71.6	73.8	76.1	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 6000		72.3	75.4	77.6	80.0	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 5000		75.5	78.8	81.3	83.7	83.9	83.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 4500		77.9	81.3	83.8	86.2	86.4	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 4000		79.8	83.4	86.0	88.4	88.9	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 3500		82.1	85.8	88.5	91.0	91.5	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 3000		84.5	88.3	91.1	93.7	94.3	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IV 2500		86.0	90.1	92.9	95.5	96.1	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 2000		87.0	91.1	94.0	96.7	97.5	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 1800		87.3	91.5	94.4	97.2	98.0	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1500		87.5	91.8	94.9	97.6	98.6	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1200		87.5	91.8	94.9	97.6	98.6	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 1000		87.6	92.1	95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 900		87.6	92.1	95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 800		87.6	92.1	95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 700		87.6	92.1	95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 600		87.6	92.1	95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500		87.6	92.1	95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400		87.6	92.1	95.1	97.9	98.8	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300		87.6	92.1	95.1	98.0	98.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		87.6	92.1	95.1	98.0	98.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		87.6	92.1	95.1	98.0	98.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		87.6	92.1	95.1	98.0	98.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 845

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

4U
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS EST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING		45.8	47.6	48.9	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000		58.9	60.0	61.4	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 18000		59.2	60.2	61.7	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 16000		59.3	60.4	61.8	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 14000		61.4	62.7	64.2	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 12000		66.8	68.2	69.8	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
IV 10000		71.3	73.0	75.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 9000		72.7	74.9	77.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 8000		73.2	75.5	77.6	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV 7000		74.5	76.8	79.2	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
IV 6000		77.1	79.5	82.4	83.6	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IV 5000		81.7	84.4	87.3	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 4500		83.8	86.7	89.6	90.8	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 4000		86.7	89.6	92.7	93.9	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 3500		87.7	90.7	93.8	95.1	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 3000		88.8	91.8	94.9	96.3	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 2500		89.4	92.5	95.6	97.1	97.5	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 2000		89.6	92.9	96.0	97.5	98.0	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1800		89.6	92.9	96.0	97.5	98.0	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1500		89.9	93.3	96.4	98.0	98.5	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1200		90.0	93.5	96.5	98.1	98.7	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1000		90.0	93.5	96.5	98.1	98.7	99.2	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 900		90.0	93.5	96.5	98.1	98.7	99.2	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 800		90.0	93.5	96.5	98.2	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 700		90.0	93.5	96.5	98.2	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 600		90.0	93.5	96.5	98.2	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500		90.0	93.5	96.5	98.3	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400		90.0	93.5	96.5	98.3	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		90.0	93.5	96.5	98.3	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		90.0	93.5	96.5	98.3	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		90.0	93.5	96.5	98.3	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		90.0	93.5	96.5	98.3	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 840

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-2000
HOURS 157

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	≥½	≥¼	≥0	
NO CEILING		42.6	43.8	45.2	45.8	45.9	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 20000		54.6	56.5	58.4	59.3	59.4	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
IV 18000		55.0	56.8	58.7	59.7	59.8	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
IV 16000		55.1	57.0	58.8	59.8	59.9	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
IV 14000		57.1	59.2	61.2	62.1	62.3	62.6	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 12000		61.8	64.3	66.7	67.8	67.9	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 10000		65.6	68.6	71.3	72.6	72.9	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 9000		66.4	69.7	72.4	74.1	74.3	74.6	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IV 8000		66.7	70.0	72.8	74.4	74.6	75.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 7000		69.6	73.0	75.8	77.6	77.8	78.3	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 6000		73.7	77.2	80.3	82.3	82.7	83.1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 5000		78.3	82.2	85.6	87.6	88.0	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 4500		80.0	84.1	87.5	89.6	90.0	90.4	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 4000		81.6	85.8	89.6	91.9	92.2	92.8	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 3500		82.4	86.7	90.6	92.8	93.2	93.8	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 3000		83.8	88.2	92.1	94.5	94.8	95.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 2500		84.2	88.7	92.7	95.4	95.8	96.5	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 2000		84.4	88.9	92.9	95.9	96.2	96.9	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 1800		84.6	89.0	93.0	96.0	96.3	97.1	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 1500		84.7	89.2	93.3	96.2	96.6	97.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1200		84.9	89.4	93.8	96.7	97.1	97.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1000		84.9	89.6	94.0	96.9	97.3	98.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900		84.9	89.6	94.0	96.9	97.3	98.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 800		84.9	89.6	94.0	96.9	97.3	98.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700		85.0	89.7	94.1	97.1	97.4	98.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 600		85.1	89.9	94.2	97.2	97.5	98.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500		85.1	89.9	94.2	97.2	97.5	98.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400		85.1	89.9	94.2	97.3	97.6	98.3	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300		85.1	89.9	94.2	97.3	97.6	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		85.1	89.9	94.2	97.3	97.6	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		85.1	89.9	94.2	97.3	97.6	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		85.1	89.9	94.2	97.3	97.6	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 848

0
2
0

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 0	
NO CEILING		47.5	49.8	52.3	53.8	53.9	54.2	54.3	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 20000		53.6	56.3	58.9	60.4	60.5	61.1	61.2	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5
IV 18000		53.7	56.4	59.0	60.5	60.6	61.2	61.3	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 16000		53.7	56.4	59.0	60.5	60.6	61.2	61.3	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 14000		55.8	58.5	61.1	62.6	62.7	63.3	63.5	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IV 12000		59.7	62.7	65.9	67.6	67.7	68.3	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 10000		63.9	67.7	71.7	74.3	74.5	75.1	75.2	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 9000		65.7	69.4	73.6	76.4	76.6	77.2	77.3	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6
IV 8000		67.2	71.1	75.3	78.3	78.6	79.2	79.3	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 7000		70.2	74.6	79.0	82.1	82.5	83.1	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 6000		72.4	77.3	82.0	85.3	85.7	86.3	86.4	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 5000		74.0	79.4	84.6	87.9	88.2	88.8	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 4500		74.6	80.4	85.7	89.3	89.7	90.2	90.4	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 4000		76.1	81.9	87.3	91.1	91.7	92.2	92.4	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 3500		76.4	82.1	87.5	91.3	91.9	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8
IV 3000		77.8	83.5	89.1	93.2	93.8	94.4	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 2500		78.7	84.7	90.4	94.5	95.3	95.9	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 2000		79.6	85.7	91.3	95.4	96.4	97.2	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1800		79.7	85.8	91.4	95.5	96.5	97.3	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1500		79.8	85.9	91.7	95.8	96.7	97.5	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 1200		79.8	85.9	91.8	95.9	96.8	97.6	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1000		79.9	86.1	92.1	96.5	97.4	98.4	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 900		79.9	86.1	92.1	96.5	97.4	98.4	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 800		79.9	86.2	92.2	96.7	97.6	98.7	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700		79.9	86.4	92.4	96.8	97.9	98.8	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600		79.9	86.4	92.4	96.9	98.0	98.9	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500		79.9	86.4	92.4	96.9	98.0	98.9	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400		79.9	86.4	92.4	97.1	98.1	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300		79.9	86.4	92.4	97.2	98.2	99.2	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		79.9	86.4	92.4	97.2	98.2	99.2	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		79.9	86.4	92.4	97.2	98.2	99.2	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		79.9	86.4	92.4	97.2	98.2	99.2	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

851

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION #

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEAR

SE
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING		28.7	32.5	38.1	43.5	45.6	49.0	51.8	52.5	52.6	52.8	53.1	53.2	53.3	53.3	53.4
IV 20000		32.3	36.6	43.1	49.4	51.5	55.3	58.3	58.9	59.0	59.2	59.5	59.6	59.7	59.7	59.9
IV 18000		32.3	36.6	43.1	49.4	51.5	55.3	58.3	58.9	59.0	59.2	59.5	59.6	59.7	59.7	59.9
IV 16000		32.3	36.6	43.1	49.4	51.5	55.3	58.3	58.9	59.0	59.2	59.5	59.6	59.7	59.7	59.9
IV 14000		32.6	36.9	43.5	49.8	51.8	55.7	59.6	59.2	59.4	59.6	59.9	60.0	60.1	60.1	60.2
IV 12000		34.1	38.9	45.7	52.6	54.7	58.5	61.5	62.1	62.2	62.4	62.7	62.8	62.9	62.9	63.1
IV 10000		37.1	42.1	50.0	57.4	59.6	63.5	66.6	67.2	67.5	67.7	68.0	68.1	68.2	68.2	68.3
IV 9000		38.8	43.8	51.8	59.6	61.9	66.3	69.5	70.1	70.3	70.6	70.8	70.9	71.1	71.1	71.2
IV 8000		40.5	45.9	54.3	62.2	64.7	69.0	72.2	72.8	73.0	73.3	73.5	73.6	73.8	73.8	73.9
IV 7000		42.7	48.4	56.9	64.9	67.5	71.8	75.0	75.6	75.9	76.1	76.4	76.5	76.6	76.6	76.7
IV 6000		45.9	51.6	60.7	68.7	71.3	75.6	78.8	79.4	79.7	79.9	80.2	80.3	80.4	80.4	80.5
IV 5000		48.0	54.1	63.8	72.4	75.1	79.4	82.6	83.3	83.5	83.7	84.0	84.1	84.2	84.2	84.4
IV 4500		48.9	55.2	65.3	74.0	76.7	81.0	84.2	84.9	85.1	85.3	85.6	85.7	85.8	85.8	86.0
IV 4000		50.2	56.9	67.4	76.4	79.3	83.6	86.8	87.4	87.7	87.9	88.2	88.3	88.4	88.4	88.5
IV 3500		50.9	57.5	68.2	77.3	80.3	84.6	87.9	88.5	88.8	89.0	89.3	89.4	89.5	89.5	89.7
IV 3000		52.3	59.0	69.7	78.9	81.8	86.1	89.5	90.1	90.4	90.6	90.9	91.0	91.1	91.1	91.3
IV 2500		54.2	61.1	72.2	81.4	84.4	88.7	92.2	92.9	93.1	93.3	93.6	93.7	93.8	93.8	94.0
IV 2000		55.3	62.4	73.5	82.8	85.7	90.0	93.6	94.2	94.5	94.7	95.0	95.1	95.2	95.2	95.3
IV 1800		55.7	62.8	74.0	83.3	86.2	90.6	94.2	94.8	95.1	95.3	95.6	95.7	95.8	95.8	95.9
IV 1500		55.9	63.1	74.4	83.7	86.7	91.1	94.7	95.3	95.6	95.8	96.1	96.2	96.3	96.3	96.4
IV 1200		55.0	63.2	74.5	84.1	87.1	91.5	95.1	95.7	95.9	96.2	96.4	96.6	96.7	96.7	96.8
IV 1000		56.0	63.2	74.5	84.1	87.4	91.9	95.4	96.1	96.3	96.6	96.8	96.9	97.0	97.0	97.2
IV 900		56.0	63.2	74.5	84.1	87.4	91.9	95.4	96.1	96.3	96.6	96.8	96.9	97.0	97.0	97.2
IV 800		56.0	63.2	74.5	84.1	87.4	91.9	95.4	96.1	96.3	96.6	96.8	96.9	97.0	97.0	97.2
IV 700		56.0	63.2	74.5	84.2	87.6	92.0	95.6	96.2	96.4	96.7	96.9	97.0	97.2	97.2	97.3
IV 600		56.3	63.4	74.8	84.6	87.9	92.5	96.2	96.8	97.0	97.3	97.5	97.7	97.8	97.8	97.9
IV 500		56.4	63.5	75.1	85.0	88.4	93.0	96.9	97.5	97.8	98.0	98.3	98.4	98.5	98.5	98.6
IV 400		56.5	63.7	75.2	85.1	88.5	93.1	97.3	97.9	98.2	98.4	98.6	98.8	98.9	98.9	99.0
IV 300		56.5	63.7	75.2	85.1	88.5	93.1	97.4	98.0	98.3	98.5	98.9	98.9	99.1	99.3	99.4
IV 200		56.5	63.7	75.2	85.1	88.5	93.1	97.4	98.0	98.3	98.5	98.9	98.9	99.1	99.3	99.4
IV 100		56.5	63.7	75.2	85.1	88.5	93.1	97.4	98.0	98.4	98.6	99.0	99.3	99.4	99.4	99.8
IV 0		56.5	63.7	75.2	85.1	88.5	93.1	97.4	98.0	98.4	98.6	99.0	99.3	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 812

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-70

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0300-0500
HOURS LT

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		21.9	24.2	28.5	35.9	37.6	39.9	44.9	46.6	47.5	47.7	47.9	47.9	48.4	48.7	49.3
≥ 20000		23.6	26.1	30.8	38.9	40.7	43.6	49.4	51.2	52.1	52.4	52.5	52.7	53.1	53.4	54.0
IV 18000		23.6	26.1	30.8	38.9	40.7	43.6	49.4	51.2	52.1	52.4	52.5	52.7	53.1	53.4	54.0
IV 16000		23.6	26.1	30.8	38.9	40.7	43.6	49.4	51.2	52.1	52.4	52.5	52.7	53.1	53.4	54.0
IV 14000		23.9	26.6	31.3	39.4	41.2	44.1	49.9	51.8	52.7	53.0	53.1	53.3	53.7	54.0	54.6
IV 12000		24.4	27.4	32.6	41.5	43.5	46.6	52.5	54.5	55.3	55.7	55.9	55.9	56.4	56.6	57.2
IV 10000		27.2	30.4	36.7	47.1	49.3	52.5	58.7	60.7	61.6	62.0	62.1	62.2	62.7	63.0	63.6
IV 9000		28.1	31.6	37.9	48.4	50.8	54.3	60.7	62.8	63.6	64.0	64.1	64.3	64.7	65.1	65.7
IV 8000		29.5	33.2	39.9	50.4	52.9	56.4	62.9	65.0	65.8	66.2	66.3	66.4	66.9	67.3	67.9
IV 7000		30.8	34.5	41.4	52.2	54.8	58.3	65.0	67.0	67.9	68.2	68.4	68.5	69.0	69.3	69.9
IV 6000		32.5	36.5	43.7	54.8	57.6	61.2	68.2	70.3	71.1	71.5	71.6	71.7	72.2	72.6	73.2
IV 5000		34.3	38.4	46.1	58.2	61.5	65.2	72.8	74.9	75.7	76.1	76.2	76.3	76.8	77.2	77.8
IV 4500		35.6	39.7	47.9	60.1	63.6	67.5	75.1	77.2	78.0	78.4	78.5	78.6	79.1	79.5	80.1
IV 4000		37.2	41.7	50.0	62.7	66.5	70.5	78.1	80.2	81.0	81.4	81.5	81.6	82.1	82.5	83.1
IV 3500		37.8	42.3	50.6	63.5	67.4	71.4	79.0	81.0	81.9	82.2	82.4	82.5	83.0	83.3	83.9
IV 3000		39.6	44.1	52.7	65.8	69.9	73.9	81.6	83.7	84.5	84.9	85.0	85.1	85.6	86.0	86.6
IV 2500		40.8	45.4	54.5	67.8	71.9	75.8	83.7	85.7	86.6	87.0	87.1	87.2	87.7	88.0	88.6
IV 2000		42.0	46.6	55.7	69.1	73.2	77.2	85.3	87.4	88.3	88.6	88.8	88.9	89.4	89.7	90.3
IV 1800		42.4	47.0	56.5	70.2	74.3	78.3	86.4	88.5	89.4	89.7	89.9	90.0	90.5	90.8	91.4
IV 1500		42.9	47.6	57.4	71.0	75.1	79.1	87.3	89.5	90.3	90.7	90.8	90.9	91.4	91.8	92.4
IV 1200		43.0	47.7	57.6	71.5	75.6	79.6	88.0	90.2	91.1	91.4	91.5	91.7	92.1	92.5	93.1
IV 1000		43.0	47.7	57.6	71.6	76.0	80.0	88.4	90.6	91.4	91.8	91.9	92.0	92.5	92.9	93.5
IV 900		43.0	47.7	57.6	71.6	76.0	80.0	88.4	90.6	91.4	91.8	91.9	92.0	92.5	92.9	93.5
IV 800		43.0	47.8	57.7	71.7	76.2	80.2	88.6	90.8	91.7	92.0	92.1	92.3	92.8	93.1	93.7
IV 700		43.0	47.8	57.7	71.9	76.3	80.3	88.8	90.9	91.8	92.1	92.3	92.4	92.9	93.2	93.8
IV 600		43.0	47.8	58.0	72.2	76.7	80.7	89.1	91.4	92.3	92.6	92.7	92.9	93.4	93.7	94.3
IV 500		43.0	47.8	58.0	72.3	76.9	81.0	89.9	92.1	93.1	93.5	93.6	93.7	94.2	94.6	95.2
IV 400		43.0	47.8	58.0	72.5	77.1	81.3	90.1	92.4	93.4	93.7	93.8	94.0	94.4	94.8	95.5
IV 300		43.0	47.8	58.0	72.6	77.4	81.9	90.8	93.4	94.3	94.7	94.8	94.9	95.4	95.8	96.5
IV 200		43.0	47.8	58.0	72.6	77.4	81.9	90.8	93.7	94.8	95.2	95.3	95.4	95.9	96.3	97.3
IV 100		43.0	47.8	58.0	72.6	77.4	81.9	90.8	93.7	94.8	95.2	95.4	95.5	96.1	96.5	97.7
IV 0		43.0	47.8	58.0	72.6	77.4	81.9	90.8	93.7	94.8	95.2	95.4	95.5	96.1	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS 828

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0600-0800
 HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1½	≥1	≥¾	≥¾	≥¾	≥5/16	≥¼	≥0
NO CEILING		15.8	18.7	23.1	29.5	30.9	34.4	38.5	40.3	41.0	41.4	41.4	41.5	41.6	41.7	42.2
≥ 20000		18.2	21.7	27.4	34.6	36.4	40.5	46.0	48.1	49.1	49.5	49.6	49.8	49.9	50.0	50.6
≥ 16000		18.2	21.8	27.5	34.7	36.5	40.6	46.1	48.2	49.2	49.6	49.8	49.9	50.0	50.1	50.7
IV 16000		18.2	21.8	27.5	34.7	36.5	40.6	46.1	48.2	49.2	49.6	49.8	49.9	50.0	50.1	50.7
IV 14000		18.4	21.9	27.7	35.1	36.8	41.1	46.6	48.7	49.6	50.1	50.2	50.4	50.5	50.6	51.2
IV 12000		19.0	22.3	28.7	36.4	38.4	43.0	48.7	51.3	52.3	52.7	52.8	53.0	53.1	53.2	53.9
IV 10000		20.9	24.6	31.5	40.4	42.7	47.6	54.1	56.9	57.8	58.3	58.4	58.5	58.6	58.8	59.5
IV 9000		21.7	25.7	32.8	41.9	44.3	49.4	56.0	59.0	60.0	60.4	60.5	60.7	60.8	60.9	61.6
IV 8000		22.7	26.8	34.0	44.1	46.9	52.3	59.0	62.1	63.0	63.5	63.6	63.7	63.9	64.0	64.7
IV 7000		23.8	28.1	35.3	45.4	48.5	53.8	60.9	64.1	65.2	65.6	65.8	65.9	66.0	66.1	66.8
IV 6000		25.2	29.5	37.3	48.1	51.3	56.8	63.9	67.2	68.4	68.8	69.0	69.1	69.2	69.3	70.0
IV 5000		26.4	30.8	38.7	50.4	54.0	59.5	66.9	70.4	71.8	72.3	72.4	72.5	72.7	72.9	73.6
IV 4500		26.9	31.3	39.6	51.2	55.1	60.7	68.2	71.9	73.5	73.9	74.1	74.2	74.4	74.5	75.2
IV 4000		29.0	33.6	42.2	54.7	58.6	64.2	71.9	75.6	77.4	77.8	78.0	78.1	78.3	78.4	79.1
IV 3500		29.6	34.4	43.2	56.0	60.0	65.5	73.2	76.9	78.7	79.1	79.3	79.4	79.6	79.7	80.5
IV 3000		30.5	35.5	44.7	57.8	61.8	67.8	75.7	79.7	81.6	82.1	82.2	82.3	82.6	82.7	83.4
IV 2500		31.8	37.1	46.4	60.0	64.0	70.0	78.3	82.3	84.2	84.7	84.8	85.0	85.2	85.3	86.0
IV 2000		32.8	38.2	47.6	61.6	65.9	71.9	80.2	84.4	86.3	86.7	86.8	87.0	87.2	87.3	88.0
IV 1800		32.9	38.3	47.9	62.0	66.2	72.3	80.6	84.7	86.6	87.1	87.2	87.3	87.6	87.7	88.4
IV 1500		33.6	39.0	48.6	62.8	67.2	73.3	81.9	86.1	88.0	88.5	88.6	88.7	89.0	89.1	89.8
IV 1200		33.6	39.0	48.9	63.4	67.9	74.2	82.9	87.2	89.1	89.6	89.7	89.8	90.0	90.2	90.9
IV 1000		33.6	39.0	48.9	63.5	68.0	74.3	83.2	87.4	89.3	89.8	89.9	90.0	90.4	90.5	91.2
IV 900		33.6	39.0	48.9	63.5	68.0	74.3	83.2	87.4	89.3	89.8	89.9	90.0	90.4	90.5	91.2
IV 800		33.6	39.0	49.1	63.6	68.1	74.4	83.4	87.7	89.6	90.0	90.2	90.3	90.6	90.8	91.5
IV 700		33.6	39.0	49.1	63.6	68.1	74.4	83.4	87.7	89.6	90.0	90.2	90.3	90.6	90.8	91.5
IV 600		33.6	39.0	49.2	63.7	68.2	74.9	84.0	88.3	90.2	90.6	90.9	91.1	91.5	91.6	92.3
IV 500		33.6	39.0	49.3	63.9	68.4	75.0	84.2	88.6	90.6	91.2	91.5	91.7	92.1	92.2	92.9
IV 400		33.6	39.0	49.3	63.9	68.4	75.0	84.5	88.9	91.0	91.6	91.9	92.2	92.7	92.8	93.5
IV 300		33.6	39.0	49.3	63.9	68.4	75.0	84.7	89.1	91.7	92.4	93.0	93.4	94.1	94.2	95.0
IV 200		33.6	39.0	49.3	63.9	68.4	75.0	84.7	89.1	91.7	92.9	93.8	94.3	95.1	95.3	96.6
IV 100		33.6	39.0	49.3	63.9	68.4	75.0	84.7	89.1	91.7	92.9	94.0	94.4	95.3	95.5	98.1
IV 0		33.6	39.0	49.3	63.9	68.4	75.0	84.7	89.1	91.7	92.9	94.0	94.4	95.3	96.0	100.0

TOTAL NUMBER OF OBSERVATIONS 844

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35022
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	≥.	≥0
NO CEILING		25.8	29.0	33.6	38.0	39.3	41.0	41.9	42.0	42.3	42.3	42.4	42.4	42.4	42.4	42.4
≥ 20000		31.2	35.1	41.0	47.3	48.3	50.7	51.9	52.1	52.4	52.4	52.4	52.5	52.5	52.5	52.5
IV 18000		31.2	35.1	41.0	47.3	48.8	50.7	51.9	52.1	52.4	52.4	52.5	52.5	52.5	52.5	52.5
IV 16000		31.2	35.1	41.0	47.3	48.8	50.7	51.9	52.1	52.4	52.4	52.5	52.5	52.5	52.5	52.5
IV 14000		31.4	35.0	41.4	47.7	49.4	51.3	52.5	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1
IV 12000		32.9	37.9	44.2	50.6	52.6	54.6	55.8	56.1	56.3	56.3	56.4	56.4	56.4	56.4	56.4
IV 10000		35.0	40.4	47.5	54.8	55.8	59.2	60.4	60.6	60.8	60.8	61.0	61.0	61.0	61.0	61.0
IV 9000		36.4	41.9	49.5	57.4	59.5	61.9	63.2	63.5	63.7	63.7	63.8	63.8	63.8	63.8	63.8
IV 8000		37.6	43.2	50.8	58.8	61.0	63.5	64.9	65.0	65.4	65.4	65.5	65.5	65.5	65.5	65.5
IV 7000		38.6	44.5	52.1	60.4	62.9	65.5	67.1	67.4	67.7	67.9	68.0	68.0	68.0	68.0	68.0
IV 6000		40.1	46.1	53.7	62.3	65.2	67.9	69.6	69.9	70.2	70.4	70.5	70.5	70.5	70.5	70.5
IV 5000		41.9	48.2	56.2	65.1	68.1	71.0	72.7	73.0	73.3	73.5	73.6	73.6	73.6	73.6	73.6
IV 4500		42.9	49.3	57.4	66.3	69.3	72.1	73.9	74.2	74.5	74.6	74.8	74.8	74.8	74.8	74.8
IV 4000		45.2	51.8	60.1	69.5	72.6	75.6	77.5	77.7	78.1	78.2	78.3	78.3	78.3	78.3	78.3
IV 3500		46.7	53.3	61.7	71.8	75.0	78.1	80.0	80.2	80.6	80.7	80.9	80.9	80.9	80.9	80.9
IV 3000		48.9	55.6	64.4	75.2	78.6	81.7	83.1	83.9	84.3	84.4	84.5	84.5	84.5	84.5	84.5
IV 2500		51.2	58.2	67.0	78.3	81.8	85.0	87.3	87.7	88.3	88.5	88.6	88.6	88.6	88.6	88.6
IV 2000		52.9	60.0	68.9	80.4	84.0	87.5	89.8	90.2	91.0	91.1	91.2	91.2	91.2	91.2	91.2
IV 1800		53.1	60.2	69.2	80.6	84.3	87.7	90.1	90.6	91.3	91.4	91.5	91.5	91.5	91.5	91.5
IV 1500		53.5	60.6	69.5	81.2	85.2	88.7	91.2	91.7	92.4	92.5	92.5	92.6	92.6	92.6	92.6
IV 1200		53.6	60.7	69.9	81.5	85.7	89.3	92.0	92.6	93.3	93.5	93.6	93.6	93.6	93.6	93.6
IV 1000		53.7	60.8	70.1	82.3	86.4	90.2	93.0	93.7	94.5	94.8	94.9	94.9	94.9	94.9	94.9
IV 900		53.7	60.8	70.2	82.5	86.8	90.7	93.5	94.2	95.0	95.2	95.4	95.4	95.4	95.4	95.4
IV 800		53.7	60.8	70.2	82.6	87.0	91.0	93.7	94.4	95.2	95.5	95.6	95.6	95.6	95.6	95.6
IV 700		53.7	60.8	70.4	82.9	87.3	91.2	93.9	94.8	95.6	95.8	96.0	96.0	96.0	96.0	96.0
IV 600		53.7	60.8	70.5	83.1	87.6	91.8	94.6	95.5	96.3	96.5	96.7	96.7	96.7	96.7	96.7
IV 500		53.7	60.8	70.5	83.2	87.9	92.3	95.4	96.4	97.3	97.5	97.6	97.6	97.6	97.6	97.6
IV 400		53.7	60.8	70.5	83.3	88.0	92.4	95.5	96.5	97.5	97.9	98.0	98.0	98.0	98.0	98.0
IV 300		53.7	60.8	70.5	83.3	88.0	92.4	95.6	96.8	97.9	98.6	98.9	98.9	98.9	98.9	98.9
IV 200		53.7	60.8	70.5	83.3	88.0	92.4	95.6	96.8	97.9	98.6	99.0	99.3	99.4	99.4	99.5
IV 100		53.7	60.8	70.5	83.3	88.0	92.4	95.6	96.8	97.9	98.6	99.0	99.3	99.4	99.4	99.5
IV 0		53.7	60.8	70.5	83.3	88.0	92.4	95.6	96.8	97.9	98.6	99.0	99.3	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 840

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

57-76
YEARS

SE
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING		35.4	37.5	39.7	42.1	42.8	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 20000		43.7	46.1	48.8	51.7	52.5	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 18000		43.8	46.3	49.0	51.9	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 16000		43.8	46.3	49.0	51.9	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 14000		44.4	46.9	49.8	52.6	53.5	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 12000		47.1	49.6	52.9	56.2	57.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 10000		52.7	55.5	59.2	63.1	64.0	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 9000		55.6	58.4	62.2	66.1	65.9	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 8000		56.8	59.7	63.5	67.5	68.4	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 7000		59.4	62.4	66.3	70.4	71.2	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 6000		62.4	65.5	69.5	73.7	74.6	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 5000		66.0	69.3	73.9	78.3	79.2	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500		67.8	71.6	76.1	80.7	81.6	82.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000		72.2	76.1	81.0	85.7	86.6	87.0	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3500		73.2	77.3	82.3	87.1	88.1	88.4	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		75.3	79.3	84.7	89.9	90.9	91.3	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2500		76.8	81.3	86.5	91.8	93.0	93.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 2000		78.4	82.9	88.4	94.0	95.2	95.6	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800		78.5	83.2	88.7	94.4	95.6	95.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500		78.5	83.3	89.1	94.9	96.2	96.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200		78.5	83.3	89.1	95.5	97.0	97.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000		78.5	83.3	89.3	95.7	97.4	98.1	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0		78.5	83.3	89.3	95.7	97.4	98.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 838

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION NAME

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	½	¼	≥5/16	≥.4	≥0
NO CEILING		40.2	40.9	42.6	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 20000		50.6	51.9	54.0	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 18000		50.6	51.9	54.0	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 16000		50.6	51.9	54.0	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 14000		51.6	52.9	55.2	57.1	57.2	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 12000		55.4	56.7	59.1	60.9	61.1	61.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 10000		59.9	61.4	64.1	66.4	66.5	66.6	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
IV 9000		63.2	64.8	67.6	70.0	70.2	70.4	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 8000		65.2	66.7	69.5	71.9	72.1	72.2	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 7000		67.4	69.1	72.0	74.4	74.6	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
IV 6000		72.5	74.4	77.3	79.6	79.9	80.1	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 5000		76.6	78.6	81.8	84.4	84.8	85.1	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 4500		79.1	81.2	84.6	87.2	87.6	87.9	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 4000		81.1	83.2	86.8	89.5	90.0	90.2	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 3500		83.2	86.2	89.9	92.6	93.2	93.5	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 3000		85.1	87.4	91.2	94.0	94.6	94.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 2500		86.2	88.7	92.8	95.6	96.2	96.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 2000		86.4	88.9	93.2	96.0	96.6	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1800		86.4	88.9	93.2	96.0	96.6	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1500		86.5	89.2	93.4	96.2	96.9	97.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1200		86.5	89.3	93.5	96.4	97.1	97.6	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 1000		86.5	89.3	93.5	96.5	97.2	97.8	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900		86.5	89.3	93.5	96.5	97.2	97.8	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800		86.5	89.3	93.5	96.5	97.2	97.8	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700		86.5	89.3	93.5	96.5	97.2	97.8	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600		86.5	89.3	93.5	96.5	97.2	97.8	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500		86.6	89.4	93.6	96.6	97.3	97.9	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400		86.6	89.4	93.6	96.6	97.3	97.9	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300		86.6	89.4	93.6	96.6	97.3	97.9	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200		86.6	89.4	93.6	96.6	97.3	97.9	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100		86.6	89.4	93.6	96.6	97.3	97.9	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 0		86.6	89.4	93.6	96.6	97.3	97.9	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

850

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35022
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

57-76
YEARS

SE
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-2000
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥½	≥¼	≥0	≥0
NO CEILING																
≥ 20000	36.6	38.5	41.2	44.1	44.8	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
IV ≥ 18000	46.8	49.1	52.6	56.2	57.1	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
IV ≥ 16000	47.0	49.2	52.7	56.2	57.2	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV ≥ 14000	47.0	49.2	52.7	56.2	57.2	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV ≥ 12000	47.6	49.8	53.3	57.0	57.9	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV ≥ 10000	49.7	52.1	56.0	59.9	60.9	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV ≥ 9000	54.0	56.8	61.2	65.1	66.2	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV ≥ 8000	56.5	59.4	63.9	68.0	69.1	69.7	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV ≥ 7000	57.9	60.9	65.6	69.7	70.7	71.4	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV ≥ 6000	62.3	65.2	70.3	74.3	75.4	76.2	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV ≥ 5000	67.0	70.4	75.6	79.9	81.0	81.8	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV ≥ 4500	71.1	74.4	80.0	84.9	86.3	87.2	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV ≥ 4000	73.2	76.9	82.7	87.6	88.9	89.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV ≥ 3500	75.5	79.5	85.2	90.7	92.1	93.1	93.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IV ≥ 3000	76.5	80.4	86.3	91.9	93.3	94.3	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV ≥ 2500	78.0	82.0	87.8	93.4	94.9	95.8	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV ≥ 2000	78.5	82.4	88.4	94.0	95.5	96.4	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV ≥ 1800	79.0	82.9	88.9	94.5	96.1	97.0	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV ≥ 1500	79.1	83.0	89.0	94.6	96.2	97.1	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV ≥ 1200	79.1	83.2	89.2	95.0	96.5	97.6	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV ≥ 1000	79.1	83.2	89.5	95.3	97.0	98.1	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV ≥ 900	79.1	83.2	89.5	95.3	97.0	98.1	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV ≥ 800	79.1	83.2	89.5	95.3	97.0	98.1	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV ≥ 700	79.2	83.3	89.6	95.6	97.3	98.4	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV ≥ 600	79.2	83.3	89.6	95.6	97.3	98.4	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV ≥ 500	79.2	83.3	89.7	95.7	97.4	98.6	99.0	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV ≥ 400	79.2	83.3	89.7	95.7	97.4	98.6	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV ≥ 300	79.2	83.3	89.7	95.7	97.4	98.6	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 200	79.2	83.3	89.7	95.7	97.4	98.6	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 100	79.2	83.3	89.7	95.7	97.4	98.6	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 0	79.2	83.3	89.7	95.7	97.4	98.6	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

827

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

07-76
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		36.4	39.7	45.0	51.0	52.6	53.7	54.2	54.2	54.3	54.3	54.3	54.5	54.5	54.5	54.5
≥ 20000		40.4	44.2	49.7	55.9	57.5	58.8	59.6	59.7	59.9	59.9	59.9	60.0	60.0	60.0	60.0
≥ 18000		40.6	44.4	49.9	56.2	57.8	59.0	59.9	60.0	60.1	60.1	60.1	60.2	60.2	60.2	60.2
≥ 16000		40.6	44.4	49.9	56.2	57.8	59.0	59.9	60.0	60.1	60.1	60.1	60.2	60.2	60.2	60.2
≥ 14000		40.6	44.6	50.3	56.5	58.1	59.4	60.2	60.3	60.5	60.5	60.5	60.6	60.6	60.6	60.6
≥ 12000		42.2	46.3	52.6	59.1	60.7	61.9	62.8	62.9	63.0	63.0	63.0	63.2	63.2	63.2	63.2
≥ 10000		45.8	50.1	57.5	64.1	66.0	67.3	68.2	68.3	68.4	68.4	68.4	68.5	68.5	68.5	68.5
≥ 9000		47.5	52.0	59.6	66.3	68.7	70.0	70.9	71.0	71.1	71.1	71.1	71.2	71.2	71.2	71.2
≥ 8000		50.4	55.1	62.7	69.9	72.2	73.6	74.4	74.5	74.7	74.7	74.7	74.8	74.8	74.8	74.8
≥ 7000		53.0	57.6	65.2	72.5	74.8	76.1	77.0	77.1	77.2	77.2	77.2	77.4	77.4	77.4	77.4
≥ 6000		57.5	62.3	70.4	78.0	80.3	81.6	82.5	82.6	82.7	82.7	82.7	82.9	82.9	82.9	82.9
≥ 5000		60.0	64.9	73.6	81.9	84.2	85.7	86.5	86.7	86.8	86.8	86.8	86.9	86.9	86.9	86.9
≥ 4500		61.1	66.2	74.9	83.2	85.6	87.0	87.9	88.0	88.1	88.1	88.1	88.2	88.2	88.2	88.2
≥ 4000		63.2	68.5	77.4	85.7	88.4	89.8	90.7	90.8	90.9	90.9	90.9	91.1	91.1	91.1	91.1
≥ 3500		64.7	70.1	79.1	87.5	90.2	91.7	92.5	92.7	92.8	92.8	92.8	92.9	92.9	92.9	92.9
≥ 3000		66.7	72.1	81.0	89.5	92.3	93.8	94.6	94.7	94.9	94.9	94.9	95.0	95.0	95.0	95.0
≥ 2500		66.8	72.2	81.3	90.0	92.9	94.4	95.3	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7
≥ 2000		68.2	73.6	82.6	91.4	94.4	95.8	96.8	97.1	97.2	97.2	97.2	97.3	97.3	97.3	97.3
≥ 1800		68.4	73.8	82.9	91.7	94.6	96.1	97.1	97.3	97.4	97.4	97.4	97.6	97.6	97.6	97.6
≥ 1500		69.0	74.4	83.5	92.2	95.2	96.7	97.7	97.9	98.0	98.0	98.0	98.2	98.2	98.2	98.2
≥ 1200		69.5	74.9	84.0	92.8	95.7	97.2	98.2	98.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9
≥ 1000		69.5	74.9	84.0	92.8	95.7	97.2	98.2	98.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9
≥ 900		69.5	74.9	84.0	92.8	95.7	97.2	98.2	98.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9
≥ 800		69.5	74.9	84.0	92.8	95.7	97.2	98.2	98.5	98.9	98.9	98.9	99.0	99.0	99.0	99.0
≥ 700		69.5	74.9	84.0	92.8	95.7	97.2	98.2	98.5	98.9	98.9	98.9	99.0	99.0	99.0	99.0
≥ 600		69.5	74.9	84.0	93.0	96.0	97.4	98.5	98.8	99.1	99.1	99.1	99.3	99.3	99.3	99.3
≥ 500		69.5	74.9	84.0	93.1	96.1	97.6	98.8	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 400		69.5	74.9	84.0	93.1	96.1	97.6	98.8	99.1	99.5	99.5	99.5	99.6	99.6	99.6	99.6
≥ 300		69.5	74.9	84.0	93.1	96.1	97.6	98.9	99.1	99.5	99.5	99.5	99.6	99.6	99.6	99.6
≥ 200		69.5	74.9	84.0	93.1	96.1	97.6	98.9	99.1	99.5	99.6	99.6	99.8	99.8	99.8	99.8
≥ 100		69.5	74.9	84.0	93.4	96.3	97.8	99.1	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0		69.5	74.9	84.0	93.4	96.3	97.8	99.1	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 817

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

57-76
YEARS

001
MOON

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0.16	≥0	≥0
NO CEILING ≥ 20000		16.4	18.4	21.1	25.2	26.9	28.2	31.7	32.4	33.2	33.5	33.7	33.7	34.1	34.5	36.0
IV 18000 16000		17.9	20.0	23.0	28.3	30.4	31.9	35.5	36.2	37.0	37.3	37.5	37.5	37.9	38.3	39.8
IV 14000 12000		17.9	20.0	23.1	28.4	30.5	32.1	35.6	36.4	37.1	37.5	37.5	37.5	37.9	38.3	39.8
IV 10000 9000		18.4	20.6	23.9	29.1	31.2	32.9	36.5	37.2	38.1	38.4	38.6	38.6	39.0	39.4	40.9
IV 8000 7000		20.9	23.1	26.8	32.3	34.4	36.1	39.7	40.4	41.2	41.6	41.7	41.7	42.2	42.6	44.1
IV 6000 5000		22.2	24.7	28.8	34.3	36.4	38.1	41.6	42.4	43.2	43.6	43.7	43.7	44.2	44.6	46.0
IV 4500 4000		23.3	25.7	29.9	35.5	37.6	39.4	43.1	43.8	44.7	45.0	45.2	45.2	45.7	46.0	47.5
IV 3500 3000		24.7	27.2	31.5	37.6	39.8	41.6	45.4	46.1	47.1	47.5	47.6	47.6	48.1	48.5	49.9
IV 2500 2000		27.2	30.5	34.8	41.1	43.6	45.5	49.3	50.2	51.3	51.7	51.8	51.8	52.3	52.6	54.1
IV 1800 1500		31.9	35.1	39.9	46.8	49.3	51.4	55.2	56.2	57.4	57.8	57.9	57.9	58.4	58.8	60.3
IV 1200 1000		33.3	36.7	42.7	49.9	52.8	55.0	59.0	60.0	61.3	61.7	61.8	61.8	62.3	62.7	64.3
IV 900 800		35.5	39.0	45.4	53.0	55.8	58.3	62.4	63.4	64.9	65.2	65.4	65.4	65.9	66.2	67.8
IV 700 600		38.8	42.6	49.0	56.8	59.7	62.3	66.6	67.6	69.0	69.4	69.5	69.5	70.0	70.4	72.0
IV 500 400		40.0	43.8	50.7	59.4	62.8	65.5	70.1	71.1	72.6	72.9	73.1	73.1	73.6	73.9	75.5
IV 300 200		42.7	46.9	54.2	64.0	67.4	70.1	74.9	75.9	77.4	77.7	77.8	77.8	78.3	78.7	80.3
IV 100 0		43.6	47.9	55.2	65.1	68.5	71.2	76.0	77.2	78.7	79.1	79.2	79.2	79.7	80.0	81.6
		44.3	49.1	56.9	67.6	71.4	74.1	78.8	80.2	81.6	82.0	82.1	82.1	82.6	83.0	84.6
		44.6	49.6	57.6	68.5	72.5	75.3	80.2	81.5	83.0	83.4	83.5	83.5	84.1	84.5	86.0
		44.9	50.1	58.4	69.9	73.8	76.6	81.8	83.1	84.6	84.9	85.1	85.1	85.7	86.0	87.6
		44.9	50.1	58.4	70.0	73.9	76.7	82.0	83.4	84.8	85.2	85.3	85.3	85.9	86.3	87.9
		44.9	50.1	58.6	70.3	74.2	77.0	82.4	83.7	85.2	85.6	85.7	85.7	86.3	86.7	88.2
		44.9	50.1	58.8	70.5	74.4	77.2	82.6	84.0	85.6	85.9	86.0	86.0	86.7	87.0	88.6
		45.0	50.2	59.0	70.7	74.7	77.6	83.0	84.3	86.0	86.4	86.5	86.5	87.1	87.5	89.1
		45.0	50.3	59.2	71.4	75.3	78.6	84.0	85.3	87.0	87.4	87.5	87.5	88.1	88.5	90.1
		45.0	50.3	59.4	71.5	75.4	78.7	84.2	85.6	87.3	87.6	87.7	87.8	88.4	88.7	90.3
		45.0	50.3	59.4	71.6	75.6	79.1	85.2	87.0	89.0	89.5	89.6	89.6	90.2	90.7	92.3
		45.0	50.3	59.4	71.7	75.8	79.2	85.4	87.3	89.4	89.8	90.1	90.1	90.8	91.3	93.3
		45.0	50.3	59.4	71.7	75.8	79.2	85.4	87.3	89.6	90.1	90.3	90.3	91.3	91.8	95.2
		45.0	50.3	59.4	71.7	75.8	79.2	85.4	87.3	89.6	90.2	90.6	90.6	91.7	92.4	100.0

TOTAL NUMBER OF OBSERVATIONS 817

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

01
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0300-0500
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0	≥0	≥0
NO CEILING		13.1	14.6	18.2	20.5	22.1	23.3	25.6	27.3	28.1	28.5	28.7	29.1	29.8	30.0	31.1
≥ 20000		14.2	15.8	19.9	23.2	24.8	26.4	28.7	30.4	31.2	31.6	31.9	32.2	32.9	33.1	34.2
IV 18000		14.2	15.8	19.9	23.2	24.8	26.4	28.7	30.4	31.2	31.6	31.9	32.2	32.9	33.1	34.2
IV 16000		14.2	15.8	19.9	23.2	24.8	26.4	28.7	30.4	31.2	31.6	31.9	32.2	32.9	33.1	34.2
IV 14000		14.2	15.8	19.9	23.2	24.8	26.4	28.8	30.5	31.3	31.7	31.9	32.2	33.0	33.3	34.3
IV 12000		14.6	16.6	21.0	24.2	26.2	27.9	30.5	32.2	33.0	33.4	33.6	34.0	34.7	34.9	36.0
IV 10000		16.7	18.7	23.3	26.7	28.7	30.7	33.4	35.1	35.9	36.3	36.5	36.9	37.6	37.8	38.9
IV 9000		16.9	19.0	23.5	26.9	28.9	31.0	33.6	35.3	36.1	36.5	36.7	37.1	37.8	38.1	39.1
IV 8000		17.0	19.1	23.6	27.0	29.1	31.1	34.0	35.7	36.5	36.9	37.1	37.5	38.2	38.4	39.5
IV 7000		17.9	20.2	25.0	28.9	31.0	33.0	35.9	37.6	38.4	38.8	39.0	39.4	40.1	40.3	41.4
IV 6000		20.3	22.7	27.7	31.7	33.9	35.9	38.9	40.6	41.4	41.8	42.0	42.4	43.1	43.3	44.4
IV 5000		23.4	26.2	31.5	35.8	38.3	40.5	43.6	45.3	46.2	46.6	46.8	47.2	47.9	48.1	49.2
IV 4500		25.7	28.5	34.0	38.5	41.2	43.3	46.5	48.1	49.1	49.5	49.7	50.1	50.8	51.0	52.1
IV 4000		27.5	30.5	36.7	41.7	44.4	46.8	49.9	51.6	52.7	53.1	53.3	53.7	54.4	54.6	55.7
IV 3500		29.7	32.7	39.5	44.7	47.7	50.3	53.8	55.5	56.5	56.9	57.1	57.5	58.2	58.5	59.5
IV 3000		33.1	36.1	43.3	49.1	52.2	54.9	58.3	60.0	61.1	61.5	61.7	62.2	62.9	63.1	64.3
IV 2500		34.8	38.1	45.5	51.7	55.2	58.0	61.9	63.6	64.8	65.4	65.4	65.7	66.6	66.9	68.1
IV 2000		37.6	40.9	49.1	56.2	59.8	62.8	66.7	68.4	69.6	70.0	70.2	70.7	71.4	71.7	72.9
IV 1800		38.7	42.0	50.8	58.1	61.7	64.7	68.7	70.3	71.5	71.9	72.1	72.6	73.3	73.6	74.8
IV 1500		39.9	43.5	53.1	61.2	65.3	68.3	72.3	73.9	75.3	75.6	75.9	76.4	77.1	77.3	78.5
IV 1200		40.7	44.5	55.0	63.9	68.1	71.2	75.4	77.1	78.4	78.8	79.0	79.5	80.2	80.4	81.6
IV 1000		40.8	44.8	55.3	64.9	69.3	72.4	76.7	78.4	79.7	80.1	80.4	80.9	81.6	81.9	83.1
IV 900		40.8	44.8	55.3	64.9	69.3	72.4	76.7	78.4	79.7	80.1	80.4	80.9	81.6	81.9	83.1
IV 800		40.9	44.9	55.6	65.3	69.6	72.7	77.1	78.8	80.2	80.6	80.9	81.4	82.1	82.4	83.6
IV 700		40.9	45.0	55.8	65.7	70.1	73.2	77.6	79.2	80.7	81.0	81.4	81.9	82.6	82.8	84.0
IV 600		40.9	45.0	55.8	65.8	70.5	73.7	78.0	79.8	81.3	81.6	82.0	82.5	83.2	83.4	84.6
IV 500		40.9	45.0	55.8	66.0	70.8	74.1	78.4	80.2	81.8	82.1	82.5	83.0	83.7	83.9	85.1
IV 400		40.9	45.0	55.9	66.4	71.3	74.7	79.2	81.0	83.0	83.3	83.7	84.2	84.9	85.1	86.3
IV 300		40.9	45.0	55.9	66.5	71.5	75.3	80.3	82.6	84.9	85.4	85.7	86.3	87.2	87.5	88.7
IV 200		40.9	45.0	55.9	66.5	71.5	75.4	80.7	83.3	86.2	86.7	87.0	87.6	88.6	89.0	90.8
IV 100		40.9	45.0	55.9	66.5	71.5	75.4	80.7	83.3	86.4	86.9	87.3	87.9	89.4	90.0	94.5
IV 0		40.9	45.0	55.9	66.5	71.5	75.4	80.7	83.3	86.4	86.9	87.3	87.9	89.7	90.4	100.0

TOTAL NUMBER OF OBSERVATIONS 833

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

JCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS CST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥1/8	≥0
NO CEILING		6.9	8.6	11.5	15.4	16.7	18.4	21.2	22.3	23.2	23.6	23.8	24.1	24.3	24.4	25.0
IV 20000		8.4	10.5	13.9	19.2	21.6	23.7	27.0	28.2	29.1	29.6	29.8	30.0	30.4	30.6	31.2
IV 18000		8.4	10.5	13.9	19.3	21.7	23.8	27.2	28.3	29.2	29.7	29.9	30.1	30.5	30.7	31.3
IV 16000		8.4	10.5	13.9	19.3	21.7	23.8	27.2	28.3	29.2	29.7	29.9	30.1	30.5	30.7	31.3
IV 14000		8.6	10.7	14.4	19.9	22.3	24.5	28.2	29.3	30.3	30.7	31.0	31.2	31.5	31.8	32.3
IV 12000		9.1	11.4	15.5	21.3	23.8	26.4	30.1	31.3	32.2	32.7	32.9	33.1	33.5	33.7	34.3
IV 10000		10.4	12.9	17.1	23.0	25.8	28.4	32.2	33.4	34.3	34.8	35.0	35.2	35.6	35.8	36.4
IV 9000		10.6	13.2	17.5	23.4	26.1	28.9	32.8	33.9	34.9	35.3	35.6	35.8	36.1	36.4	36.9
IV 8000		10.9	13.7	18.1	24.2	27.0	29.9	33.8	35.0	35.9	36.4	36.6	36.8	37.2	37.4	38.0
IV 7000		11.9	14.8	19.3	25.7	28.5	31.6	35.8	37.2	38.1	38.6	38.9	39.0	39.4	39.6	40.2
IV 6000		13.3	16.7	21.9	28.8	32.0	35.3	39.5	40.9	41.8	42.2	42.5	42.7	43.2	43.4	44.0
IV 5000		15.4	19.1	24.9	32.7	36.0	39.4	43.5	44.9	45.9	46.4	46.6	46.8	47.3	47.5	48.1
IV 4500		16.7	20.5	26.4	34.6	38.0	41.7	46.4	47.8	48.8	49.3	49.5	49.7	50.2	50.4	51.0
IV 4000		19.3	23.6	30.3	39.5	42.9	46.7	51.9	53.3	54.3	54.8	55.0	55.2	55.7	55.9	56.5
IV 3500		21.3	25.7	32.6	42.7	46.1	50.2	55.6	57.0	58.0	58.5	58.7	58.9	59.4	59.6	60.2
IV 3000		22.9	27.3	34.3	44.4	48.1	52.1	57.5	59.0	60.3	60.9	61.1	61.3	61.8	62.0	62.6
IV 2500		24.7	29.2	36.5	47.0	50.6	55.0	60.5	62.0	63.5	64.1	64.3	64.6	65.0	65.2	65.8
IV 2000		26.7	31.3	39.0	49.9	53.7	58.3	64.2	65.0	67.4	68.1	68.4	68.6	69.2	69.4	70.0
IV 1800		27.2	31.9	40.0	51.2	55.1	59.8	65.9	67.5	69.2	69.9	70.1	70.3	70.9	71.1	71.7
IV 1500		28.1	32.9	41.4	53.7	57.9	62.7	69.2	71.0	72.6	73.3	73.5	73.8	74.3	74.6	75.1
IV 1200		28.4	33.8	42.5	55.8	60.0	65.1	71.7	73.6	75.3	76.1	76.3	76.5	77.1	77.3	77.9
IV 1000		28.7	34.1	42.7	56.8	61.0	66.3	72.8	74.9	76.5	77.3	77.4	77.8	78.4	78.6	79.2
IV 900		28.7	34.3	43.0	57.4	61.6	66.9	73.4	75.5	77.1	77.9	78.1	78.4	78.9	79.2	79.7
IV 800		28.7	34.3	43.0	57.8	61.9	67.3	73.9	75.9	77.7	78.5	78.8	79.2	79.7	80.0	80.6
IV 700		28.8	34.5	43.3	58.1	62.5	67.9	74.6	76.6	78.4	79.2	79.5	79.9	80.4	80.7	81.2
IV 600		28.8	34.5	43.3	58.3	62.9	68.5	75.3	77.4	79.3	80.2	80.6	80.9	81.5	81.7	82.3
IV 500		28.8	34.5	43.3	58.5	63.2	68.9	75.9	78.3	80.2	81.1	81.5	81.8	82.4	82.6	83.2
IV 400		28.8	34.5	43.3	58.5	63.3	69.0	76.6	79.3	81.4	82.4	82.9	83.2	83.8	84.0	84.6
IV 300		28.8	34.5	43.3	58.5	63.4	69.4	77.7	80.6	82.7	84.0	84.8	85.2	85.7	86.0	86.7
IV 200		28.8	34.5	43.3	58.5	63.4	69.4	77.7	80.6	82.7	84.3	85.4	85.8	86.9	87.3	88.8
IV 100		28.8	34.5	43.3	58.5	63.4	69.4	77.7	80.7	82.9	84.5	85.5	86.0	87.9	89.0	93.4
IV 0		28.8	34.5	43.3	58.5	63.4	69.4	77.7	80.7	82.9	84.5	85.5	86.0	89.3	90.7	100.0

TOTAL NUMBER OF OBSERVATIONS 869

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFUPT 67-76

UCI

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1900-1900
 HOURS EST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥½	≥¼	≥0	≥0
NO CEILING		15.6	16.5	18.4	23.3	24.3	26.2	27.1	27.8	28.1	28.4	28.4	28.4	28.5	28.5	28.5
≥ 20000		19.3	21.0	23.8	30.3	31.6	33.6	34.9	35.7	35.9	36.3	36.3	36.3	36.4	36.4	36.4
IV 18000		19.3	21.0	23.8	30.3	31.6	33.6	34.9	35.7	35.9	36.3	36.3	36.3	36.4	36.4	36.4
IV 16000		19.3	21.0	23.8	30.3	31.6	33.6	34.9	35.7	35.9	36.3	36.3	36.3	36.4	36.4	36.4
IV 14000		19.7	21.6	24.4	30.9	32.2	34.2	35.5	36.3	36.5	36.8	36.8	36.8	36.9	36.9	36.9
IV 12000		21.4	23.3	26.2	33.0	34.2	36.3	37.5	38.3	38.5	38.9	38.9	39.0	39.1	39.1	39.1
IV 10000		22.5	24.3	27.6	34.3	35.7	37.7	39.1	39.9	40.1	40.5	40.5	40.6	40.7	40.7	40.7
IV 9000		23.4	25.2	28.5	35.2	36.7	38.8	40.1	40.9	41.2	41.5	41.5	41.6	41.7	41.7	41.7
IV 8000		23.8	25.7	29.1	35.9	37.5	39.7	41.2	42.0	42.2	42.5	42.5	42.6	42.8	42.8	42.8
IV 7000		25.4	27.3	30.7	37.7	39.6	42.1	43.7	44.5	44.7	45.0	45.2	45.3	45.4	45.4	45.4
IV 6000		28.4	30.4	34.2	41.4	43.3	46.0	47.5	48.3	48.7	49.0	49.1	49.3	49.4	49.4	49.4
IV 5000		30.6	32.1	37.1	44.7	47.0	49.7	51.7	52.5	52.8	53.1	53.2	53.4	53.5	53.5	53.5
IV 4500		32.2	35.1	39.3	47.4	49.7	52.8	54.7	55.5	55.9	56.3	56.4	56.6	56.7	56.7	56.7
IV 4000		34.2	37.7	42.3	51.0	53.8	57.2	59.3	60.2	60.7	61.1	61.2	61.3	61.5	61.5	61.5
IV 3500		35.9	39.8	44.6	53.5	56.6	60.1	62.3	63.2	63.6	64.1	64.2	64.3	64.4	64.4	64.4
IV 3000		37.9	42.2	47.5	56.9	60.2	63.7	66.5	67.4	67.8	68.3	68.5	68.9	69.0	69.0	69.0
IV 2500		40.1	44.6	50.6	60.4	63.7	67.5	70.5	71.4	72.1	72.5	72.7	73.1	73.2	73.2	73.2
IV 2000		41.5	46.1	52.7	63.1	66.5	70.2	73.4	74.5	75.1	75.6	75.8	76.2	76.3	76.3	76.3
IV 1800		42.9	47.8	54.5	65.5	68.9	72.6	75.8	76.9	77.5	78.0	78.2	78.6	78.7	78.7	78.7
IV 1500		43.8	49.0	56.7	68.1	71.6	75.4	78.7	79.7	80.4	80.8	81.1	81.4	81.5	81.5	81.5
IV 1200		44.2	49.7	57.7	70.4	74.3	78.7	82.1	83.1	83.9	84.4	84.6	84.9	85.1	85.1	85.1
IV 1000		44.4	49.9	58.0	71.2	75.1	79.5	83.0	84.0	84.8	85.3	85.6	86.0	86.1	86.1	86.1
IV 900		44.4	49.9	58.0	71.2	75.1	79.5	83.0	84.2	84.9	85.4	85.7	86.1	86.2	86.2	86.2
IV 800		44.4	49.9	58.2	71.5	75.5	79.8	83.4	84.5	85.3	85.7	86.2	86.5	86.7	86.7	86.7
IV 700		44.4	49.9	58.3	71.8	75.8	80.3	83.9	85.2	86.0	86.4	87.0	87.3	87.5	87.5	87.5
IV 600		44.4	49.9	58.3	71.9	76.1	80.5	84.3	85.5	86.2	86.8	87.5	87.8	87.9	87.9	87.9
IV 500		44.4	49.9	58.4	72.2	76.3	81.0	85.7	87.2	88.1	88.8	89.5	89.9	90.0	90.0	90.0
IV 400		44.4	49.9	58.4	72.2	76.3	81.0	86.0	87.9	89.3	90.2	91.0	91.3	91.4	91.4	91.4
IV 300		44.4	49.9	58.4	72.2	76.3	81.1	86.5	88.6	90.4	91.8	93.2	93.8	94.1	94.1	94.2
IV 200		44.4	49.9	58.4	72.2	76.3	81.1	86.5	88.6	90.4	91.9	93.5	94.6	95.1	95.3	95.6
IV 100		44.4	49.9	58.4	72.2	76.3	81.1	86.5	88.6	90.4	91.9	93.5	94.8	95.6	96.0	97.0
IV 0		44.4	49.9	58.4	72.2	76.3	81.1	86.5	88.6	90.4	91.9	93.6	95.2	96.9	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 877

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JCT
MONTH

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	≥1½	≥1	≥¾	≥¾	≥½	≥¼	≥0	≥0
NO CEILING		23.6	25.3	27.7	29.8	30.6	31.5	33.1	33.1	33.3	33.4	33.4	33.4	33.4	33.4	33.4
≥ 20000		29.7	31.7	35.1	37.8	38.7	39.7	41.8	41.8	42.1	42.2	42.2	42.2	42.2	42.2	42.2
IV 18000		29.8	31.9	35.2	37.9	38.8	39.9	41.9	41.9	42.2	42.3	42.3	42.3	42.3	42.3	42.3
IV 16000		29.8	31.9	35.2	37.9	38.8	39.9	41.9	41.9	42.2	42.3	42.3	42.3	42.3	42.3	42.3
IV 14000		30.0	32.1	35.5	38.1	39.0	40.1	42.2	42.2	42.4	42.5	42.5	42.5	42.5	42.5	42.5
IV 12000		32.8	35.1	38.6	41.4	42.3	43.3	45.4	45.4	45.7	45.8	45.8	45.8	45.8	45.8	45.8
IV 10000		35.3	37.7	41.3	44.5	45.5	46.6	48.7	48.7	48.9	49.0	49.0	49.0	49.0	49.0	49.0
IV 9000		36.4	38.8	42.6	45.9	46.9	48.3	50.6	50.6	50.9	51.0	51.0	51.0	51.0	51.0	51.0
IV 8000		36.7	39.2	43.0	46.3	47.4	49.0	51.4	51.4	51.7	51.8	51.8	51.8	51.8	51.8	51.8
IV 7000		38.2	40.7	44.5	47.9	48.9	50.5	53.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3
IV 6000		41.8	44.4	48.2	51.6	52.6	54.2	56.7	56.7	57.0	57.1	57.1	57.1	57.1	57.1	57.1
IV 5000		45.0	47.6	51.4	55.0	56.1	57.9	60.4	60.4	60.7	60.8	60.8	60.8	60.8	60.8	60.8
IV 4500		46.2	49.0	52.8	56.4	57.6	59.6	62.0	62.1	62.5	62.6	62.6	62.6	62.6	62.6	62.6
IV 4000		48.7	51.4	56.1	60.0	61.2	63.4	65.8	65.9	66.3	66.4	66.4	66.4	66.4	66.4	66.4
IV 3500		51.6	54.3	59.2	63.7	65.1	67.3	69.8	69.9	70.2	70.3	70.3	70.3	70.3	70.3	70.3
IV 3000		55.2	58.1	63.7	68.3	69.6	71.8	74.5	74.6	75.0	75.1	75.1	75.1	75.1	75.1	75.1
IV 2500		57.9	60.8	67.0	71.6	73.0	75.4	78.2	78.3	78.8	78.9	78.9	78.9	78.9	78.9	78.9
IV 2000		60.1	63.3	70.2	75.7	77.2	79.6	82.4	82.5	83.0	83.1	83.1	83.1	83.1	83.1	83.1
IV 1800		61.4	64.5	71.6	77.3	78.8	81.2	84.2	84.4	84.8	85.1	85.1	85.1	85.1	85.1	85.1
IV 1500		63.3	67.1	74.6	80.8	82.5	84.9	88.2	88.3	88.8	89.0	89.0	89.0	89.0	89.0	89.0
IV 1200		64.2	68.1	75.8	82.0	83.9	86.4	89.9	90.0	90.5	90.7	90.7	90.7	90.7	90.7	90.7
IV 1000		64.2	68.3	76.1	82.5	84.5	87.0	90.8	91.0	91.4	91.7	91.7	91.7	91.7	91.7	91.7
IV 900		64.2	68.3	76.1	82.7	84.8	87.4	91.2	91.3	91.8	92.1	92.1	92.1	92.1	92.1	92.1
IV 800		64.2	68.3	76.1	83.0	85.1	87.7	91.5	91.7	92.2	92.6	92.6	92.7	92.7	92.7	92.7
IV 700		64.3	68.4	76.2	83.1	85.2	87.8	92.0	92.1	92.8	93.2	93.7	93.3	93.3	93.3	93.3
IV 600		64.3	68.4	76.4	83.3	85.4	88.1	92.7	92.5	93.3	93.7	93.7	93.9	93.9	93.9	93.9
IV 500		64.3	68.4	76.4	83.3	85.5	88.2	92.6	93.0	94.2	94.7	94.9	95.1	95.1	95.1	95.1
IV 400		64.3	68.4	76.4	83.3	85.5	88.2	92.7	93.3	94.8	95.6	95.9	96.2	96.2	96.2	96.2
IV 300		64.3	68.4	76.4	83.3	85.5	88.3	92.9	93.7	95.7	97.1	97.8	98.0	98.0	98.0	98.0
IV 200		64.3	68.4	76.4	83.3	85.5	88.3	92.9	93.7	95.7	97.1	98.0	99.1	99.2	99.3	99.3
IV 100		64.3	68.4	76.4	83.3	85.5	88.3	92.9	93.7	95.7	97.1	98.0	99.1	99.2	99.3	99.3
IV 0		64.3	68.4	76.4	83.3	85.5	88.3	92.9	93.7	95.7	97.1	98.0	99.4	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

863

USAF ETAC

FORM JUL 64

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

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JCT
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	≥½	≥¼	≥0	≥0	≥0
NO CEILING		22.7	24.1	26.3	28.3	29.3	30.4	32.4	33.3	33.6	33.9	34.0	34.0	34.0	34.0	34.1
≥ 20000		30.7	32.3	35.0	37.0	39.0	40.7	42.5	44.7	45.3	45.7	45.9	45.9	45.9	45.9	46.0
IV 18000		30.9	32.5	35.2	37.9	39.2	41.0	43.7	45.0	45.5	45.9	46.1	46.1	46.1	46.1	46.2
IV 16000		30.9	32.5	35.2	37.9	39.2	41.0	43.7	45.0	45.5	45.9	46.1	46.1	46.1	46.1	46.2
IV 14000		31.5	33.2	35.9	38.6	39.9	41.6	44.4	45.7	46.2	46.6	46.9	46.8	46.8	46.8	46.9
IV 12000		34.7	36.5	39.7	42.2	43.7	45.4	48.2	49.4	50.0	50.3	50.6	50.6	50.6	50.6	50.7
IV 10000		38.0	40.4	43.9	46.7	48.1	49.8	52.5	53.9	54.5	54.8	55.0	55.0	55.0	55.0	55.1
IV 9000		39.2	41.9	45.8	48.6	50.2	52.1	54.8	56.2	56.8	57.1	57.3	57.3	57.3	57.3	57.4
IV 8000		39.6	42.2	46.1	49.0	50.6	52.5	55.3	56.6	57.2	57.6	57.8	57.8	57.8	57.8	57.9
IV 7000		41.0	43.6	47.6	50.5	52.1	54.2	57.1	58.5	59.0	59.4	59.6	59.6	59.6	59.6	59.7
IV 6000		43.5	46.2	50.5	53.3	54.9	57.1	60.1	61.6	62.2	62.6	62.8	62.8	62.8	62.8	62.9
IV 5000		47.5	50.6	54.9	58.1	59.7	62.0	65.1	66.6	67.3	67.6	67.8	67.8	67.8	67.8	68.0
IV 4500		49.1	52.4	57.0	60.2	61.9	64.3	67.4	68.9	69.6	69.9	70.1	70.1	70.1	70.1	70.3
IV 4000		52.3	55.6	60.4	64.2	66.0	68.8	71.9	73.3	74.0	74.4	74.6	74.6	74.6	74.6	74.7
IV 3500		54.8	58.2	63.4	67.2	69.0	71.9	74.9	76.4	77.1	77.5	77.7	77.7	77.7	77.7	77.8
IV 3000		57.0	60.6	65.9	70.3	72.1	75.3	78.7	80.2	80.9	81.2	81.5	81.5	81.5	81.5	81.6
IV 2500		59.0	63.3	68.9	73.3	75.5	78.7	82.2	83.6	84.3	84.7	84.9	84.9	84.9	84.9	85.0
IV 2000		60.6	65.1	71.3	76.3	78.7	81.9	85.6	87.1	87.8	88.1	88.3	88.3	88.3	88.3	88.4
IV 1800		61.3	66.0	72.2	77.3	79.7	83.0	86.6	88.1	88.8	89.1	89.4	89.4	89.4	89.4	89.5
IV 1500		62.1	66.9	74.0	79.2	81.6	84.9	88.6	90.2	90.8	91.2	91.4	91.4	91.4	91.4	91.5
IV 1200		62.9	67.8	75.3	80.8	83.2	86.7	90.6	92.2	92.9	93.2	93.5	93.5	93.5	93.5	93.6
IV 1000		62.9	67.8	75.4	81.0	83.4	87.1	91.0	92.6	93.4	93.7	93.9	94.1	94.1	94.1	94.2
IV 900		62.9	68.1	75.7	81.5	84.1	87.8	91.8	93.4	94.2	94.5	94.7	94.9	94.9	94.9	95.0
IV 800		62.9	68.1	75.7	81.6	84.2	87.9	92.2	93.8	94.6	95.0	95.2	95.3	95.3	95.3	95.4
IV 700		62.9	68.1	75.7	81.6	84.3	88.0	92.3	93.9	94.7	95.1	95.3	95.4	95.4	95.4	95.5
IV 600		62.9	68.1	75.7	81.6	84.3	88.1	92.6	94.3	95.1	95.4	95.7	95.8	95.8	95.8	95.9
IV 500		62.9	68.1	75.7	81.6	84.3	88.2	92.8	94.5	95.4	95.9	96.2	96.3	96.3	96.3	96.5
IV 400		62.9	68.1	75.7	81.6	84.3	88.2	92.9	94.6	95.7	96.3	96.8	96.9	96.9	96.9	97.0
IV 300		62.9	68.1	75.7	81.6	84.3	88.2	93.0	94.9	95.9	97.1	97.6	97.8	97.9	97.9	98.1
IV 200		62.9	68.1	75.7	81.6	84.3	88.2	93.0	94.9	95.9	97.3	98.1	98.3	98.6	98.6	98.7
IV 100		62.9	68.1	75.7	81.6	84.3	88.2	93.0	94.9	95.9	97.3	98.2	98.5	99.0	99.0	99.1
IV 0		62.9	68.1	75.7	81.6	84.3	88.2	93.0	94.9	95.9	97.3	98.2	98.5	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 874

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JCT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1800-2000
 HOURS 15'

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		25.0	26.6	29.8	32.7	33.6	34.8	37.6	38.7	39.1	39.2	39.2	39.2	39.4	39.4	39.7
≥ 20000		29.9	31.7	35.2	39.0	40.0	41.5	44.7	46.0	45.4	46.0	46.6	46.6	46.8	46.6	47.0
IV 18000		30.0	31.9	35.4	39.1	40.1	41.7	44.8	46.1	46.6	46.7	46.7	46.7	46.9	46.9	47.1
IV 16000		30.0	31.9	35.4	39.1	40.1	41.7	44.8	46.1	46.6	46.7	46.7	46.7	46.9	46.9	47.1
IV 14000		30.9	32.8	36.3	40.0	41.1	42.6	45.7	47.0	47.5	47.6	47.6	47.6	47.8	47.8	48.1
IV 12000		34.3	36.2	39.8	43.5	44.6	46.1	49.2	50.5	51.0	51.1	51.1	51.1	51.3	51.3	51.6
IV 10000		37.3	39.2	43.5	47.7	48.8	50.4	53.6	54.8	55.3	55.4	55.4	55.4	55.7	55.7	55.9
IV 9000		37.8	39.8	44.0	48.3	49.4	51.0	54.1	55.4	55.9	56.0	56.0	56.0	56.2	56.2	56.5
IV 8000		38.9	41.0	45.5	50.3	51.3	53.0	56.1	57.4	57.9	58.0	58.0	58.0	58.2	58.2	58.5
IV 7000		41.0	43.2	47.8	52.6	53.7	55.3	58.5	59.7	60.2	60.3	60.3	60.3	60.6	60.6	60.8
IV 6000		43.3	45.7	50.5	55.3	56.4	58.0	61.6	62.9	63.4	63.5	63.5	63.5	63.7	63.8	64.2
IV 5000		47.5	50.1	55.2	60.1	61.1	62.8	66.5	67.8	68.3	68.4	68.4	68.4	68.6	68.7	69.1
IV 4500		50.2	53.1	58.2	63.5	64.5	66.5	70.2	71.5	72.0	72.1	72.1	72.1	72.3	72.3	72.8
IV 4000		51.8	54.8	60.3	65.9	67.0	69.0	72.7	74.0	74.4	74.6	74.6	74.6	74.8	74.9	75.3
IV 3500		53.7	56.7	62.5	68.5	69.5	71.6	75.4	76.7	77.1	77.2	77.2	77.2	77.5	77.6	77.9
IV 3000		56.4	59.9	65.8	72.2	73.4	75.8	79.7	81.0	81.4	81.6	81.6	81.6	81.8	81.9	82.3
IV 2500		58.0	61.6	67.8	74.3	75.7	78.3	82.1	83.4	83.9	84.0	84.0	84.0	84.2	84.4	84.7
IV 2000		60.0	63.9	70.9	78.1	79.6	82.1	86.2	87.5	88.0	88.1	88.1	88.1	88.3	88.4	88.8
IV 1800		60.3	64.3	71.5	78.8	80.3	82.8	86.9	88.2	88.7	88.8	88.8	88.8	89.0	89.1	89.5
IV 1500		60.8	65.1	72.6	80.0	81.6	84.1	88.3	89.6	90.1	90.2	90.2	90.2	90.4	90.5	90.9
IV 1200		61.4	66.0	73.9	81.7	83.2	85.9	90.2	91.5	91.9	92.1	92.1	92.1	92.3	92.4	92.8
IV 1000		61.5	66.2	74.1	81.9	83.4	86.3	90.7	91.9	92.4	92.5	92.5	92.5	92.8	92.9	93.2
IV 900		61.5	66.2	74.2	82.0	83.5	86.5	90.8	92.1	92.5	92.6	92.6	92.6	92.9	93.0	93.3
IV 800		61.5	66.2	74.3	82.1	83.7	86.6	91.0	92.3	92.8	92.9	92.9	92.9	93.1	93.2	93.6
IV 700		61.5	66.2	74.3	82.4	83.9	86.8	91.2	92.5	93.0	93.1	93.1	93.1	93.3	93.5	93.8
IV 600		61.5	66.2	74.3	82.5	84.1	87.0	91.6	92.9	93.3	93.5	93.5	93.5	93.7	93.8	94.2
IV 500		61.5	66.2	74.3	82.5	84.1	87.0	91.8	93.1	93.7	93.9	93.9	93.9	94.2	94.3	94.6
IV 400		61.5	66.2	74.3	82.5	84.1	87.0	92.2	93.5	94.2	94.4	94.4	94.4	94.6	94.7	95.1
IV 300		61.5	66.2	74.3	82.5	84.1	87.0	92.5	93.9	95.0	95.4	95.4	95.4	95.8	95.9	96.3
IV 200		61.5	66.2	74.3	82.5	84.1	87.0	92.5	93.9	95.1	95.6	95.7	95.7	96.0	96.3	96.6
IV 100		61.5	66.2	74.3	82.5	84.1	87.0	92.5	93.9	95.1	95.7	95.8	95.9	96.4	96.7	97.4
IV 0		61.5	66.2	74.3	82.5	84.1	87.0	92.5	93.9	95.1	95.7	95.8	95.9	96.5	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS 857

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-HAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-300
HOURS TST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10.	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1.	≥1	≥¾	≥½	≥¼	≥5/16	≥.	≥0
NO CEILING		18.1	20.1	23.8	28.1	29.4	30.5	33.4	34.5	35.8	36.4	36.6	36.7	36.8	37.1	37.7
IV 20000	20.4	22.7	27.0	31.8	33.2	34.5	37.6	38.6	39.9	40.5	40.9	41.0	41.1	41.2	41.4	41.9
IV 18000	20.5	22.9	27.1	31.9	33.3	34.6	37.7	38.7	40.0	40.6	41.0	41.1	41.2	41.5	42.1	
IV 16000	20.5	22.9	27.1	31.9	33.3	34.6	37.7	38.7	40.0	40.6	41.0	41.1	41.2	41.5	42.1	
IV 14000	20.9	23.2	27.5	32.2	33.6	35.0	38.7	39.1	40.4	41.0	41.4	41.5	41.6	41.8	42.4	
IV 12000	22.9	24.9	29.1	34.1	35.7	37.0	40.0	41.4	42.7	43.2	43.5	43.7	43.8	44.1	44.7	
IV 10000	25.2	27.8	32.5	38.0	39.6	40.9	44.1	45.4	46.7	47.3	47.6	47.7	47.9	48.1	48.7	
IV 9000	26.2	28.8	34.0	39.7	41.2	42.5	45.7	47.0	48.3	48.9	49.2	49.4	49.5	49.8	50.4	
IV 8000	27.5	30.2	35.4	41.4	42.9	44.2	47.4	48.7	50.0	50.6	50.9	51.1	51.2	51.4	52.0	
IV 7000	29.7	32.6	37.8	43.8	45.4	46.7	49.9	51.2	52.5	53.1	53.4	53.6	53.7	53.9	54.5	
IV 6000	33.1	36.0	41.7	48.0	49.8	51.1	54.5	56.0	57.3	58.2	58.5	58.6	58.8	59.0	59.6	
IV 5000	35.9	39.2	44.9	51.3	53.1	54.4	57.9	59.5	60.8	61.6	62.0	62.1	62.4	62.8	63.4	
IV 4500	37.6	41.7	47.6	54.1	55.9	57.2	61.0	62.7	64.0	64.8	65.2	65.3	65.4	66.0	66.6	
IV 4000	41.8	46.1	52.3	59.7	61.6	63.0	66.9	68.6	69.9	70.7	71.1	71.2	71.6	71.9	72.5	
IV 3500	44.4	48.8	55.0	62.8	64.9	66.7	70.7	72.4	73.7	74.5	74.9	75.0	75.4	75.7	76.3	
IV 3000	47.7	52.3	59.2	67.1	69.2	71.1	75.6	77.3	78.6	79.4	79.7	79.9	80.2	80.6	81.2	
IV 2500	48.9	53.6	61.0	70.1	72.3	74.2	78.7	80.3	81.6	82.5	82.8	82.9	83.3	83.6	84.2	
IV 2000	50.3	53.3	63.0	72.6	74.8	76.7	81.3	82.9	84.2	85.1	85.4	85.5	85.9	86.3	86.8	
IV 1500	50.9	55.9	63.9	73.5	75.6	77.5	82.2	83.9	85.2	86.0	86.4	86.5	86.8	87.2	87.8	
IV 1200	51.3	56.5	64.7	74.6	76.9	78.8	83.5	85.2	86.7	87.6	87.9	88.0	88.4	88.7	89.3	
IV 1000	51.7	57.1	65.5	76.2	78.4	80.3	85.1	86.8	88.3	89.1	89.5	89.6	89.9	90.3	90.9	
IV 900	51.7	57.1	65.6	76.3	78.6	80.5	85.2	87.0	88.4	89.2	89.6	89.7	90.0	90.4	91.0	
IV 800	51.7	57.1	65.8	76.7	79.0	81.0	85.8	87.6	89.0	89.8	90.2	90.3	90.6	91.0	91.6	
IV 700	51.7	57.1	66.0	76.9	79.3	81.4	86.1	87.9	89.3	90.2	90.5	90.6	91.0	91.4	91.9	
IV 600	51.7	57.1	66.0	77.0	79.4	81.5	86.3	88.0	89.5	90.3	90.6	90.8	91.1	91.5	92.1	
IV 500	51.7	57.1	66.0	77.3	79.6	81.8	86.6	88.4	89.9	90.8	91.1	91.2	91.6	91.9	92.5	
IV 400	51.7	57.1	66.0	77.3	79.7	82.0	86.8	88.9	90.4	91.2	91.4	91.7	92.1	92.4	93.0	
IV 300	51.7	57.1	66.0	77.3	79.9	82.3	87.6	90.3	92.1	92.9	93.5	93.6	94.0	94.3	94.9	
IV 200	51.7	57.1	66.1	77.4	80.0	82.5	87.9	90.8	92.7	93.5	94.2	94.3	94.7	95.0	95.7	
IV 100	51.7	57.1	66.1	77.4	80.0	82.5	87.9	90.8	92.7	93.5	94.2	94.3	94.7	95.0	96.7	
IV 0	51.7	57.1	66.1	77.4	80.0	82.5	87.9	90.8	92.7	93.5	94.2	94.3	94.8	95.2	100.0	

TOTAL NUMBER OF OBSERVATIONS 844

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

NDV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1½	≥1	≥¾	≥¾	≥½	≥½	≥¼	≥0
NO CEILING		15.2	17.4	20.4	22.9	24.1	24.5	26.0	27.2	27.4	27.6	27.6	27.8	27.9	27.9	28.4
≥ 20000		17.0	19.4	22.6	25.9	27.0	27.6	29.3	30.5	30.7	30.9	30.9	31.1	31.2	31.2	31.7
IV 18000		17.1	19.5	22.7	25.6	27.1	27.7	29.4	30.6	30.7	31.0	31.0	31.2	31.3	31.3	31.8
IV 16000		17.3	19.8	22.9	25.9	27.3	27.9	29.6	30.9	31.1	31.2	31.2	31.5	31.6	31.6	32.1
IV 14000		17.4	20.0	23.2	26.1	27.6	28.2	29.9	31.3	31.6	31.7	31.7	32.0	32.1	32.1	32.6
IV 12000		18.8	21.3	25.2	28.2	29.6	30.2	32.1	33.5	33.8	33.9	33.9	34.1	34.3	34.3	34.8
IV 10000		20.6	23.7	27.9	30.9	32.3	32.9	35.0	36.5	36.7	36.8	36.8	37.1	37.2	37.2	37.7
IV 9000		21.2	24.4	28.8	31.7	33.2	33.8	35.5	37.3	37.6	37.7	37.7	37.9	38.0	38.0	38.5
IV 8000		21.7	24.9	29.3	32.2	33.7	34.3	36.3	37.8	38.0	38.2	38.2	38.4	38.5	38.5	39.0
IV 7000		22.8	26.3	30.7	33.7	35.1	35.7	37.9	39.4	39.6	39.6	39.9	40.0	40.1	40.1	40.6
IV 6000		24.9	28.4	33.3	36.8	38.3	38.9	41.2	42.7	42.9	43.0	43.0	43.3	43.4	43.4	43.9
IV 5000		27.1	30.7	36.1	40.0	41.5	42.1	44.4	45.9	46.1	46.2	46.2	46.5	46.6	46.6	47.1
IV 4500		29.4	33.2	38.5	43.0	44.5	45.1	47.4	48.9	49.1	49.3	49.3	49.5	49.6	49.6	50.1
IV 4000		32.8	37.0	42.7	47.9	49.8	50.5	52.8	54.3	54.5	54.6	54.6	54.9	55.0	55.0	55.5
IV 3500		35.0	39.3	45.0	50.5	52.3	53.0	55.4	57.0	57.2	57.3	57.3	57.6	57.7	57.7	58.2
IV 3000		38.4	43.4	50.0	55.7	57.7	58.5	61.0	62.7	62.9	63.0	63.0	63.3	63.4	63.4	63.9
IV 2500		40.4	45.6	52.4	59.4	61.3	62.2	64.9	66.6	66.8	67.0	67.0	67.2	67.3	67.3	67.8
IV 2000		43.3	48.8	56.1	63.8	65.9	66.8	69.5	71.2	71.5	71.6	71.6	71.8	72.0	72.0	72.4
IV 1800		44.6	50.5	57.9	65.9	67.9	68.9	71.6	73.3	73.5	73.7	73.7	73.9	74.0	74.0	74.5
IV 1500		46.1	52.0	59.6	68.4	70.5	71.7	74.5	76.2	76.6	76.7	76.7	77.0	77.1	77.1	77.6
IV 1200		47.1	53.7	61.8	71.6	73.9	75.2	78.4	80.1	80.5	80.6	80.6	80.9	81.0	81.0	81.5
IV 1000		47.3	54.0	62.4	73.2	75.9	77.0	80.5	82.2	82.6	82.7	82.7	82.9	83.0	83.0	83.5
IV 900		47.6	54.5	63.0	73.9	76.5	78.2	81.8	83.5	83.9	84.0	84.0	84.3	84.4	84.4	84.9
IV 800		47.7	54.6	63.2	74.1	77.0	78.7	82.7	84.5	84.9	85.0	85.0	85.2	85.4	85.4	85.9
IV 700		47.7	54.6	63.3	74.6	77.6	79.4	83.4	85.2	85.6	85.7	85.7	86.0	86.1	86.1	86.6
IV 600		47.8	54.9	63.5	75.1	78.2	80.1	84.1	86.1	86.5	86.6	86.6	86.8	87.0	87.0	87.4
IV 500		47.8	54.9	63.8	75.5	78.8	81.1	85.4	87.3	87.7	87.8	87.8	88.0	88.2	88.2	88.7
IV 400		47.8	54.9	63.8	75.6	78.9	81.2	86.1	88.0	88.4	88.5	88.5	88.8	88.9	88.9	89.4
IV 300		47.8	55.0	63.9	75.9	79.3	82.0	87.9	90.4	90.9	91.1	91.1	91.3	91.5	91.5	92.0
IV 200		47.8	55.0	63.9	75.9	79.3	82.1	88.3	91.0	92.9	93.2	93.2	93.4	94.0	94.1	95.0
IV 100		47.8	55.0	63.9	75.9	79.3	82.1	88.4	91.1	93.3	93.9	93.9	94.4	95.4	95.6	97.4
IV 0		47.8	55.0	63.9	75.9	79.3	82.1	88.4	91.1	93.3	93.9	93.9	94.5	95.9	96.1	100.0

TOTAL NUMBER OF OBSERVATIONS 820

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS U.S.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	≥5/16	≥.	≥0	
NO CEILING		12.3	13.9	16.8	19.8	20.8	21.4	22.8	23.6	23.7	23.7	23.8	23.8	23.8	23.8	24.5
≥ 20000		13.6	15.3	18.3	21.8	23.1	23.7	25.1	25.9	26.0	26.0	26.1	26.1	26.1	26.1	26.9
≥ 18000		13.6	15.3	18.3	21.8	23.1	23.7	25.1	25.9	26.0	26.0	26.1	26.1	26.1	26.1	26.8
≥ 16000		13.6	15.3	18.3	21.8	23.1	23.7	25.1	25.9	26.0	26.0	26.1	26.1	26.1	26.1	26.8
≥ 14000		13.9	15.0	18.6	22.2	23.5	24.0	25.4	26.2	26.4	26.4	26.5	26.5	26.5	26.5	27.2
≥ 12000		15.1	16.9	20.0	23.6	25.0	25.5	26.9	27.7	27.9	27.9	28.0	28.0	28.0	28.0	28.7
IV 10000		17.1	19.0	23.0	26.7	28.1	28.7	30.1	31.0	31.1	31.1	31.2	31.2	31.2	31.2	31.9
IV 9000		18.6	20.5	24.6	28.4	29.8	30.4	31.9	32.8	32.9	32.9	33.1	33.1	33.1	33.1	33.8
IV 8000		19.2	21.0	25.2	29.1	30.5	31.1	32.6	33.5	33.6	33.6	33.8	33.8	33.8	33.8	34.5
IV 7000		20.6	22.4	26.7	30.9	32.3	32.9	34.5	35.4	35.5	35.5	35.6	35.6	35.6	35.6	36.3
IV 6000		22.0	23.9	28.6	32.7	34.1	34.8	36.3	37.2	37.3	37.3	37.5	37.5	37.5	37.5	38.2
IV 5000		25.4	27.5	32.8	37.0	38.4	39.1	40.6	41.5	41.6	41.6	41.7	41.7	41.7	41.7	42.4
IV 4500		27.7	30.1	35.4	39.8	41.2	41.8	43.4	44.3	44.4	44.4	44.5	44.5	44.5	44.5	45.2
IV 4000		29.7	32.1	37.8	42.7	44.2	45.1	46.9	47.9	48.0	48.0	48.1	48.1	48.1	48.1	48.8
IV 3500		32.0	34.6	40.7	46.0	47.5	48.4	50.4	51.3	51.4	51.4	51.6	51.6	51.6	51.6	52.3
IV 3000		35.1	37.9	44.3	50.2	51.8	52.7	54.7	55.6	55.7	55.7	55.8	55.8	55.8	55.8	56.5
IV 2500		37.7	40.7	47.7	54.6	56.3	57.2	59.3	60.2	60.3	60.3	60.5	60.5	60.5	60.5	61.2
IV 2000		40.7	44.0	52.5	60.0	62.0	63.1	65.4	66.4	66.5	66.5	66.6	66.6	66.6	66.6	67.3
IV 1800		41.4	44.7	54.0	61.8	63.8	65.0	67.3	68.3	68.4	68.4	68.6	68.6	68.6	68.6	69.2
IV 1500		43.5	47.1	57.7	66.1	68.2	69.7	72.4	73.4	73.5	73.5	73.6	73.6	73.6	73.6	74.3
IV 1200		44.2	48.1	59.1	68.7	71.6	73.2	76.3	77.3	77.5	77.5	77.6	77.6	77.6	77.6	78.3
IV 1000		44.5	48.6	59.8	69.9	73.3	75.4	78.6	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.7
IV 900		44.6	48.8	60.1	70.4	73.9	76.3	79.5	80.7	80.8	80.8	80.9	80.9	80.9	80.9	81.6
IV 800		44.7	49.1	60.7	71.3	74.9	77.6	81.0	82.2	82.3	82.3	82.4	82.4	82.4	82.4	83.1
IV 700		44.7	49.2	60.9	71.7	75.3	78.0	81.6	82.8	82.9	82.9	83.0	83.0	83.0	83.0	83.7
IV 600		44.7	49.4	61.4	72.1	75.8	78.6	82.4	83.8	83.9	83.9	84.0	84.0	84.0	84.0	84.7
IV 500		44.7	49.4	61.4	72.4	76.1	79.4	83.9	85.3	85.4	85.4	85.5	85.5	85.5	85.5	86.2
IV 400		44.9	49.5	61.5	72.8	76.6	80.1	85.2	86.7	86.8	86.8	86.9	86.9	86.9	86.9	87.7
IV 300		45.0	49.7	61.7	73.1	76.9	80.3	86.1	88.0	88.4	88.4	88.6	88.6	88.6	88.6	89.6
IV 200		45.0	49.7	61.7	73.1	76.9	80.3	87.3	90.9	91.9	92.3	92.5	92.7	93.1	93.3	94.5
IV 100		45.0	49.7	61.7	73.1	76.9	80.3	87.3	90.9	92.1	92.8	93.2	93.5	94.6	94.9	97.9
IV 0		45.0	49.7	61.7	73.1	76.9	80.3	87.3	90.9	92.1	92.8	93.2	93.5	94.8	95.1	100.0

TOTAL NUMBER OF OBSERVATIONS 865

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0600-0800
TIME PERIOD

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥¼	≥	≥1/16	≥	≥0
NO CEILING		9.6	10.4	11.7	14.6	15.6	16.8	19.4	20.4	20.6	20.7	20.7	20.7	20.9	20.9	21.3
≥ 20000		11.8	12.5	14.1	17.7	19.0	20.6	23.9	24.8	25.0	25.1	25.1	25.1	25.3	25.3	25.7
IV 18000		11.8	12.5	14.1	17.7	19.0	20.6	23.9	24.8	25.0	25.1	25.1	25.1	25.3	25.3	25.7
IV 16000		11.8	12.5	14.1	17.7	19.0	20.6	23.9	24.8	25.0	25.1	25.1	25.1	25.3	25.3	25.7
IV 14000		11.8	12.5	14.3	17.8	19.1	20.7	24.0	24.9	25.1	25.3	25.3	25.3	25.4	25.4	25.8
IV 12000		12.4	13.3	15.3	19.0	20.3	22.0	25.5	26.4	26.7	26.8	26.8	26.8	26.9	26.9	27.3
IV 10000		14.1	15.4	18.0	21.9	23.3	25.1	28.9	29.9	30.1	30.2	30.2	30.2	30.4	30.4	30.8
IV 9000		15.2	16.6	19.2	23.3	24.8	26.8	30.6	31.6	31.9	32.0	32.0	32.0	32.1	32.1	32.6
IV 8000		16.0	17.5	20.3	24.4	26.1	28.0	32.0	33.0	33.3	33.4	33.4	33.4	33.6	33.6	34.1
IV 7000		16.7	18.2	21.0	25.1	26.8	28.7	32.9	34.0	34.2	34.3	34.3	34.3	34.5	34.5	35.0
IV 6000		18.4	20.0	23.1	27.5	29.2	31.2	35.5	36.5	36.7	36.8	36.8	36.8	37.1	37.1	37.5
IV 5000		20.3	22.0	25.1	29.7	31.7	34.1	38.9	40.0	40.2	40.3	40.3	40.3	40.6	40.6	41.0
IV 4500		22.4	24.1	27.5	32.2	34.4	36.8	42.1	43.1	43.3	43.5	43.5	43.5	43.7	43.7	44.1
IV 4000		23.6	25.6	29.5	34.8	37.1	39.6	45.1	46.1	46.3	46.5	46.5	46.5	46.7	46.7	47.2
IV 3500		25.3	27.5	31.4	36.7	39.4	42.1	47.9	49.0	49.2	49.4	49.4	49.4	49.6	49.6	50.1
IV 3000		28.6	31.1	35.5	41.3	44.0	46.7	52.7	54.0	54.2	54.3	54.3	54.3	54.6	54.6	55.0
IV 2500		30.0	32.6	37.1	43.8	46.7	49.7	56.9	58.5	58.7	58.9	58.9	58.9	59.1	59.1	59.6
IV 2000		32.8	35.6	41.0	48.8	52.4	55.5	63.5	65.2	65.5	65.7	65.7	65.7	65.9	65.9	66.4
IV 1800		34.4	37.2	43.1	51.1	54.7	57.9	66.0	67.8	68.0	68.3	68.4	68.4	68.6	68.6	69.1
IV 1500		36.3	39.3	45.9	54.7	58.3	61.5	69.8	71.7	72.1	72.3	72.4	72.4	72.7	72.7	73.1
IV 1200		37.2	40.2	47.6	57.5	61.3	64.9	73.6	75.8	76.1	76.4	76.5	76.5	76.7	76.7	77.2
IV 1000		37.4	40.6	48.3	58.5	62.6	66.4	75.4	77.9	78.2	78.4	78.6	78.6	78.8	78.8	79.3
IV 900		37.4	40.6	48.4	58.6	62.7	66.5	75.0	78.2	78.6	78.8	78.8	78.9	78.9	79.1	79.6
IV 800		37.4	40.7	48.9	59.3	63.5	67.7	77.5	80.0	80.4	80.6	80.8	80.8	81.0	81.0	81.5
IV 700		37.4	40.8	49.1	59.3	63.7	68.1	78.3	80.8	81.2	81.5	81.6	81.6	81.8	81.8	82.3
IV 600		37.4	40.9	49.7	60.1	64.4	68.9	79.6	82.2	82.7	83.0	83.1	83.1	83.3	83.3	83.8
IV 500		37.4	40.9	49.9	60.5	64.9	69.4	80.6	83.2	83.8	84.0	84.1	84.1	84.4	84.4	84.8
IV 400		37.4	40.9	49.9	60.6	65.0	70.0	82.0	84.8	85.5	86.0	86.1	86.1	86.3	86.3	86.8
IV 300		37.5	41.0	50.1	60.7	65.2	70.2	83.0	86.4	87.4	88.3	88.5	88.5	88.9	88.9	89.5
IV 200		37.5	41.0	50.1	60.7	65.2	70.2	83.1	87.6	89.2	90.5	91.2	91.9	92.7	92.9	93.5
IV 100		37.5	41.0	50.1	60.7	65.2	70.2	83.1	87.6	89.3	90.7	91.5	92.6	93.9	94.2	96.8
IV 0		37.5	41.0	50.1	60.7	65.2	70.2	83.1	87.6	89.3	90.7	91.5	92.6	94.4	94.8	100.0

TOTAL NUMBER OF OBSERVATIONS 863

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥¼	≥⅓	≥⅔	≥10	≥1	≥0
NO CEILING		8.6	9.7	11.2	13.8	14.8	15.6	16.9	17.0	17.4	17.5	17.5	17.6	17.6	17.6	17.6	17.6
≥ 20000		12.8	14.0	15.3	20.0	21.8	22.9	24.4	24.8	25.4	25.5	25.5	25.6	25.6	25.6	25.6	25.7
IV 8000		12.9	14.2	16.4	20.1	22.0	23.0	24.6	24.9	25.3	25.6	25.6	25.7	25.7	25.7	25.7	25.9
IV 16000		12.9	14.2	16.4	20.1	22.0	23.0	24.6	24.9	25.3	25.6	25.6	25.7	25.7	25.7	25.7	25.9
IV 14000		13.0	14.3	16.5	20.2	22.1	23.1	24.7	25.0	25.7	25.7	25.7	25.9	25.9	25.9	25.9	26.0
IV 12000		13.3	14.9	17.1	20.9	22.9	24.0	25.5	25.9	26.4	26.6	26.6	26.7	26.7	26.7	26.7	26.8
IV 10000		14.9	16.6	19.4	23.6	25.0	27.2	29.3	29.6	30.2	30.3	30.3	30.5	30.5	30.5	30.6	30.6
IV 9000		15.9	17.7	20.5	25.0	27.5	28.7	30.8	31.2	31.8	31.9	31.9	32.0	32.0	32.0	32.0	32.1
IV 8000		16.3	18.1	20.9	25.4	27.9	29.0	31.3	31.6	32.2	32.3	32.3	32.5	32.5	32.5	32.5	32.6
IV 7000		17.2	19.0	21.8	26.3	28.9	30.2	32.7	32.8	34.4	33.5	33.5	33.6	33.6	33.6	33.6	33.8
IV 6000		18.3	20.2	23.1	27.7	30.7	32.1	34.7	34.8	36.4	35.5	35.5	35.7	35.7	35.7	35.7	35.8
IV 5000		20.3	22.4	25.5	30.2	33.2	34.6	37.7	37.9	38.5	38.5	38.5	38.7	38.7	38.7	38.7	38.8
IV 4500		22.6	24.7	27.7	33.3	36.2	37.8	40.5	41.1	41.7	41.8	41.8	41.9	41.9	41.9	41.9	42.0
IV 4000		25.5	27.9	31.2	37.8	41.1	42.7	45.9	46.5	47.1	47.2	47.2	47.3	47.3	47.3	47.3	47.5
IV 3500		28.5	31.2	34.7	41.6	45.0	46.5	50.4	51.0	51.6	51.7	51.7	51.8	51.8	51.8	51.8	51.9
IV 3000		31.6	34.7	38.4	45.7	49.5	51.1	55.8	56.4	57.0	57.1	57.1	57.3	57.3	57.3	57.3	57.4
IV 2500		34.1	37.3	41.9	50.3	54.3	57.5	62.5	63.0	63.8	63.9	63.9	64.0	64.0	64.0	64.0	64.1
IV 2000		36.0	39.4	44.4	53.5	57.6	61.2	66.9	67.8	68.2	68.6	68.6	68.7	68.7	68.7	68.7	68.8
IV 1800		37.3	41.1	46.2	55.5	59.7	63.4	69.5	70.4	71.1	71.2	71.2	71.3	71.3	71.3	71.3	71.4
IV 1500		39.0	42.9	48.7	58.3	62.6	66.6	73.4	74.4	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.6
IV 1200		40.3	44.4	51.0	62.0	66.6	70.8	77.9	78.9	79.8	79.9	80.0	80.2	80.2	80.2	80.2	80.3
IV 1000		40.5	44.6	51.7	63.3	68.0	72.4	79.7	80.6	81.6	81.7	81.8	81.9	81.9	81.9	81.9	82.1
IV 900		40.9	44.9	51.9	63.6	68.6	73.0	80.4	81.3	82.3	82.4	82.5	82.6	82.6	82.6	82.6	82.8
IV 800		40.7	44.9	52.3	64.1	69.1	73.4	81.2	82.4	83.4	83.5	83.6	83.7	83.7	83.7	83.7	83.8
IV 700		41.0	45.1	52.5	64.3	69.3	73.9	82.2	83.5	84.4	84.5	84.7	84.8	84.8	84.8	84.8	84.9
IV 600		41.1	45.2	52.7	64.6	69.7	74.4	83.4	84.7	85.7	86.0	86.1	86.2	86.2	86.2	86.2	86.3
IV 500		41.2	45.3	52.8	64.9	70.2	75.1	84.3	85.7	86.9	87.1	87.2	87.4	87.4	87.4	87.4	87.5
IV 400		41.2	45.3	52.8	64.9	70.2	75.2	85.1	86.7	88.4	89.6	89.8	90.0	90.0	90.0	90.0	90.1
IV 300		41.2	45.3	52.8	64.9	70.2	75.4	85.8	87.8	90.4	92.4	92.9	93.2	93.3	93.3	93.3	93.4
IV 200		41.2	45.3	52.8	64.9	70.2	75.4	85.1	88.1	90.9	93.3	94.0	94.5	95.2	95.2	95.4	95.4
IV 100		41.2	45.3	52.8	64.9	70.2	75.4	86.1	88.1	90.9	93.3	94.0	94.6	95.5	95.7	97.4	97.4
IV C		41.2	45.3	52.8	64.9	70.2	75.4	86.1	88.1	90.9	93.3	94.0	94.6	96.0	96.5	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

847

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (LT)

CEILING (FEET)	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1	
NO CEILING		13.2	13.6	15.5	16.8	17.3	17.4	17.6	17.9	18.4	18.4	18.5	18.6	18.6	18.6	18.6	18.6
≥ 20000		13.2	19.1	21.7	23.7	24.6	24.8	25.1	25.5	26.1	26.1	26.2	26.3	26.3	26.3	26.3	26.3
≥ 18000		17.6	19.5	22.3	24.3	25.1	25.4	25.7	26.1	26.7	26.7	26.8	26.9	26.9	26.9	26.9	26.9
IV 16000		18.6	19.5	22.3	24.3	25.1	25.4	25.7	26.1	26.7	26.7	26.8	26.9	26.9	26.9	26.9	26.9
IV 14000		19.7	19.6	22.4	24.4	25.3	25.5	25.9	26.2	26.8	26.8	26.9	27.0	27.0	27.0	27.0	27.0
IV 12000		20.6	21.6	24.4	26.7	27.5	27.8	28.2	28.6	29.2	29.3	29.4	29.5	29.5	29.5	29.5	29.5
IV 10000		24.0	25.0	28.1	30.7	31.8	32.1	32.9	33.2	33.8	33.9	34.0	34.2	34.2	34.2	34.2	34.2
IV 9000		24.7	26.1	29.3	32.3	33.3	33.7	34.5	34.9	35.5	35.6	35.7	35.8	35.8	35.8	35.8	35.8
IV 8000		25.1	26.9	30.0	33.2	34.4	34.8	35.4	35.9	36.5	36.7	36.8	36.9	36.9	36.9	36.9	36.9
IV 7000		25.4	26.8	30.2	33.7	34.9	35.2	36.1	36.4	37.0	37.1	37.2	37.4	37.4	37.4	37.4	37.4
IV 6000		26.6	28.0	31.7	35.5	36.7	37.0	37.8	38.2	38.8	38.9	39.0	39.1	39.1	39.1	39.1	39.1
IV 5000		28.6	30.2	34.2	38.1	39.6	40.0	40.9	41.3	41.9	42.0	42.1	42.2	42.2	42.2	42.2	42.2
IV 4500		30.4	32.0	35.9	40.2	41.8	42.3	43.3	43.7	44.2	44.4	44.5	44.6	44.6	44.6	44.6	44.6
IV 4000		34.0	36.1	40.3	44.6	46.5	47.3	48.3	48.6	49.2	49.3	49.5	49.6	49.6	49.6	49.6	49.6
IV 3500		37.8	40.2	44.6	49.1	51.1	52.2	53.3	53.6	54.2	54.3	54.7	54.8	54.8	54.8	54.8	54.8
IV 3000		41.0	43.5	49.0	54.2	56.3	58.0	59.7	60.0	60.6	60.9	61.2	61.3	61.3	61.3	61.3	61.3
IV 2500		45.9	48.9	54.3	60.6	62.9	64.9	66.9	67.3	67.9	68.1	68.6	68.7	68.7	68.7	68.7	68.7
IV 2000		49.5	52.6	58.1	64.5	66.8	69.3	71.6	72.0	72.6	72.8	73.3	73.5	73.5	73.5	73.5	73.5
IV 1800		50.2	53.4	59.1	65.8	68.1	70.7	73.4	73.8	74.4	74.6	75.1	75.3	75.3	75.3	75.3	75.3
IV 1500		53.0	56.7	63.0	69.8	72.0	74.6	78.1	78.6	79.2	79.5	80.1	80.3	80.3	80.3	80.3	80.3
IV 1200		53.4	57.3	64.4	72.1	74.6	77.6	81.3	81.9	82.4	82.7	83.3	83.5	83.5	83.5	83.5	83.5
IV 1000		53.4	57.5	65.0	73.3	76.0	79.6	84.0	84.6	85.2	85.5	86.1	86.4	86.4	86.4	86.4	86.4
IV 900		53.4	57.5	65.0	73.4	76.2	79.7	84.1	84.7	85.3	85.6	86.2	86.5	86.5	86.5	86.5	86.5
IV 800		53.4	57.7	65.4	73.8	76.6	80.4	85.4	86.0	86.6	87.0	87.5	87.8	87.8	87.8	87.8	87.8
IV 700		53.4	57.7	65.4	73.9	76.7	80.7	85.9	86.7	87.3	87.7	88.3	88.5	88.5	88.5	88.5	88.5
IV 600		53.4	57.7	65.4	73.9	76.7	80.9	86.6	87.4	88.1	88.7	89.3	89.6	89.6	89.6	89.6	89.6
IV 500		53.4	57.7	65.4	73.9	76.7	81.4	88.0	88.8	89.0	90.0	90.6	91.2	91.5	91.5	91.5	91.5
IV 400		53.4	57.7	65.4	73.9	76.9	81.5	88.3	89.3	91.1	92.2	92.9	93.1	93.1	93.1	93.1	93.1
IV 300		53.4	57.7	65.4	73.9	77.1	81.7	88.6	89.8	92.4	94.1	95.3	95.6	95.6	95.6	95.6	95.6
IV 200		53.4	57.7	65.4	73.9	77.1	81.7	88.6	89.8	92.8	94.4	96.0	96.4	97.0	97.0	97.0	97.0
IV 100		53.4	57.7	65.4	73.9	77.1	81.7	88.6	89.8	92.8	94.4	96.0	96.4	97.2	97.3	98.3	98.3
"		53.4	57.7	65.4	73.9	77.1	81.7	88.6	89.8	92.8	94.4	96.0	96.6	97.6	98.2	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 843

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

1500-1700
MOSES

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		16.0	17.9	19.0	20.4	21.4	22.0	23.2	23.2	23.6	23.6	23.6	23.9	23.9	23.9	23.9
≥ 20000		21.6	24.0	25.1	27.0	28.6	29.5	30.8	30.8	31.2	31.2	31.2	31.5	31.5	31.5	31.5
IV 18000		21.6	24.0	25.1	27.0	28.6	29.6	30.9	30.9	31.4	31.4	31.4	31.6	31.6	31.6	31.6
IV 16000		21.6	24.0	25.1	27.0	28.7	29.7	31.0	31.0	31.5	31.5	31.5	31.7	31.7	31.7	31.7
IV 14000		22.6	24.9	26.1	28.1	29.9	30.9	32.2	32.2	32.7	32.7	32.7	32.9	32.9	32.9	32.9
IV 12000		24.3	26.8	28.1	30.2	31.9	32.9	34.3	34.3	34.8	34.8	34.8	35.0	35.0	35.0	35.0
IV 10000		27.3	30.3	31.6	33.8	35.7	37.1	38.5	38.6	39.1	39.1	39.1	39.3	39.3	39.3	39.3
IV 9000		28.5	31.7	33.1	35.6	37.5	39.1	40.7	41.0	41.4	41.4	41.4	41.7	41.7	41.7	41.7
IV 8000		29.3	32.7	34.4	36.9	39.0	40.6	42.3	42.5	43.0	43.0	43.0	43.2	43.2	43.2	43.2
IV 7000		29.5	32.8	34.6	37.3	39.3	41.0	42.6	42.9	43.3	43.3	43.3	43.6	43.6	43.6	43.6
IV 6000		30.9	34.2	36.1	39.2	41.2	43.0	44.9	45.1	45.6	45.6	45.6	45.8	45.8	45.8	45.8
IV 5000		34.0	37.8	39.8	43.5	45.5	47.3	49.2	49.4	49.9	49.9	49.9	50.1	50.1	50.1	50.1
IV 4500		35.6	39.4	41.4	45.4	47.4	49.2	51.1	51.3	52.0	52.0	52.0	52.3	52.3	52.3	52.3
IV 4000		38.7	43.0	45.4	49.4	51.4	53.2	55.2	55.6	56.4	56.4	56.4	56.7	56.7	56.7	56.7
IV 3500		42.9	47.1	50.0	54.8	56.8	59.0	61.4	61.8	62.6	62.6	62.6	62.8	62.8	62.8	62.8
IV 3000		46.6	51.1	54.3	59.1	61.4	63.8	67.0	67.3	68.3	68.3	68.3	68.5	68.5	68.5	68.5
IV 2000		49.0	53.9	57.4	63.1	65.4	67.8	71.1	71.5	72.4	72.4	72.4	72.7	72.7	72.7	72.7
IV 1800		52.4	57.4	60.8	66.9	69.5	72.1	75.5	76.0	77.0	77.0	77.0	77.2	77.2	77.2	77.2
IV 1500		53.3	58.6	62.2	68.9	71.5	74.5	78.0	78.6	79.7	79.7	79.7	79.9	79.9	79.9	79.9
IV 1200		54.3	59.7	63.4	70.5	73.4	76.4	80.0	80.6	81.9	81.9	81.9	82.2	82.2	82.2	82.2
IV 1000		55.0	60.7	64.8	72.9	75.9	78.9	83.0	83.7	85.0	85.0	85.0	85.3	85.3	85.3	85.3
IV 900		55.1	60.9	65.4	73.8	76.7	79.7	84.1	84.8	86.1	86.1	86.1	86.3	86.3	86.3	86.3
IV 800		55.1	61.0	65.7	74.5	77.6	80.6	85.7	86.6	87.9	87.9	87.9	88.2	88.2	88.2	88.2
IV 700		55.1	61.0	65.7	74.6	77.8	80.9	86.1	87.1	88.5	88.5	88.5	88.8	88.8	88.8	88.8
IV 600		55.1	61.0	65.8	74.7	77.9	81.4	86.7	87.8	89.3	89.3	89.3	89.7	89.7	89.7	89.7
IV 500		55.1	61.0	65.8	74.7	77.9	81.5	87.6	88.7	90.3	90.3	90.3	90.6	90.6	90.6	90.6
IV 400		55.1	61.0	65.8	74.7	78.3	81.8	88.8	90.1	92.3	92.5	92.5	92.9	92.9	92.9	92.9
IV 300		55.1	61.0	65.8	74.7	78.3	81.8	89.4	90.9	93.7	93.9	94.1	94.5	94.7	94.7	94.8
IV 200		55.1	61.0	65.8	74.7	78.3	81.8	89.5	91.0	94.3	95.0	95.4	96.2	96.4	96.8	96.9
IV 100		55.1	61.0	65.8	74.7	78.3	81.8	89.5	91.0	94.3	95.0	95.4	96.3	96.7	97.4	98.3
IV 0		55.1	61.0	65.8	74.7	78.3	81.8	89.5	91.0	94.3	95.0	95.4	96.4	97.3	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 842

DATA PROCESSING BRANCH
 USAF ETAC
 AIP. WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

NO. 1800-2000
 HOURS 151

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	
NO CEILING		18.0	20.0	22.1	25.7	26.4	27.1	28.0	28.6	28.9	28.9	28.9	29.0	29.0	29.1	29.6
≥ 2000		20.3	22.9	25.1	29.0	29.8	31.0	31.9	32.5	32.7	32.7	32.7	32.8	32.8	32.9	33.4
IV 18000		21.0	23.1	25.4	29.2	30.0	31.2	32.1	32.7	32.9	32.9	32.9	33.1	33.1	33.2	33.6
IV 16000		21.0	23.1	25.4	29.2	30.0	31.2	32.1	32.7	32.9	32.9	32.9	33.1	33.1	33.2	33.6
IV 14000		21.0	23.8	26.1	29.9	30.7	31.9	32.8	33.4	33.6	33.6	33.6	33.8	33.8	33.9	34.3
IV 12000		23.0	25.2	27.7	31.7	32.7	33.9	34.8	35.4	35.6	35.6	35.6	35.7	35.7	35.9	36.3
IV 10000		27.0	29.4	32.2	36.2	37.5	38.7	39.6	40.2	40.4	40.4	40.4	40.5	40.5	40.7	41.1
IV 9000		28.5	31.0	33.8	37.3	39.1	40.3	41.4	41.9	42.2	42.2	42.2	42.3	42.3	42.4	42.9
IV 8000		29.2	31.7	34.5	38.6	39.8	41.0	42.1	42.6	42.9	42.9	42.9	43.0	43.0	43.1	43.6
IV 7000		31.2	33.6	36.4	40.7	42.2	43.3	44.5	45.1	45.3	45.3	45.3	45.4	45.4	45.5	46.0
IV 6000		33.2	35.6	38.7	42.9	44.4	45.7	47.1	47.7	47.9	47.9	47.9	48.0	48.0	48.1	48.6
IV 5000		36.1	38.7	41.7	46.6	48.4	49.8	51.2	51.8	52.3	52.3	52.3	52.5	52.5	52.6	53.0
IV 4500		38.6	41.4	44.4	49.6	51.4	52.8	54.4	55.0	55.6	55.6	55.6	55.7	55.7	55.8	56.3
IV 4000		42.3	45.1	48.1	54.0	55.8	57.2	59.0	59.8	60.4	60.4	60.4	60.5	60.5	60.6	61.1
IV 3500		45.0	48.0	51.6	57.7	59.7	61.1	63.1	63.9	64.5	64.5	64.5	64.6	64.6	64.7	65.2
IV 3000		47.2	50.6	54.8	61.4	63.6	65.0	67.1	67.9	68.5	68.5	68.5	68.6	68.6	68.7	69.2
IV 2500		49.5	53.5	57.7	64.8	67.3	69.2	71.3	72.1	72.7	72.7	72.7	72.8	72.8	72.9	73.4
IV 2000		51.4	56.1	60.5	68.2	70.9	73.4	75.7	76.5	77.2	77.2	77.2	77.3	77.3	77.5	77.9
IV 1800		52.2	56.9	61.6	69.4	72.1	74.5	77.0	77.8	78.5	78.5	78.5	78.6	78.6	78.7	79.2
IV 1500		53.0	57.8	63.0	71.6	74.4	77.3	80.0	80.8	81.5	81.5	81.5	81.7	81.7	81.8	82.2
IV 1200		54.0	59.0	65.0	74.2	77.0	80.3	83.3	84.1	84.9	84.9	84.9	85.0	85.0	85.2	85.6
IV 1000		54.1	59.1	65.1	74.8	77.7	81.3	84.8	85.4	86.4	86.4	86.4	86.6	86.6	86.7	87.1
IV 900		54.1	59.1	65.2	75.1	78.2	81.8	85.4	86.2	87.0	87.0	87.0	87.1	87.1	87.3	87.7
IV 800		54.1	59.1	65.4	75.5	78.5	82.4	86.1	86.9	87.7	87.7	87.7	87.9	87.9	88.0	88.4
IV 700		54.1	59.1	65.4	75.7	78.9	83.1	86.8	87.6	88.4	88.4	88.4	88.6	88.6	88.7	89.1
IV 600		54.1	59.1	65.5	76.1	79.3	83.8	87.6	88.4	89.3	89.3	89.3	89.4	89.4	89.5	90.0
IV 500		54.1	59.1	65.7	76.4	79.9	85.3	89.3	90.2	91.1	91.1	91.1	91.2	91.2	91.4	91.8
IV 400		54.1	59.1	65.7	76.6	80.3	86.0	90.2	91.1	92.1	92.1	92.1	92.2	92.2	92.3	92.8
IV 300		54.1	59.1	65.7	76.6	80.3	86.0	91.6	92.8	93.8	93.9	94.0	94.2	94.2	94.3	94.7
IV 200		54.1	59.1	65.7	76.6	80.3	86.0	91.6	92.8	94.7	95.4	95.4	95.9	95.9	96.0	96.3
IV 100		54.1	59.1	65.7	76.6	80.3	86.0	91.6	92.8	94.7	95.4	95.9	96.1	96.1	96.5	97.0
IV 0		54.1	59.1	65.7	76.6	80.3	86.0	91.6	92.8	94.7	95.4	95.9	96.1	96.6	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS 856

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-70 YEARS MONTHS 1967-1970

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	¾	¾	¾	¾	≥0
NO CEILING		19.4	21.1	23.6	25.7	26.7	27.5	28.5	28.8	29.9	30.0	30.1	30.2	30.5	30.5	30.9
≥20000		21.4	23.3	26.2	28.5	29.4	30.7	31.6	32.0	33.1	33.2	33.3	33.4	33.6	33.6	34.1
IV 18000		21.4	23.3	26.2	28.5	29.4	30.7	31.6	32.0	33.1	33.2	33.3	33.4	33.6	33.6	34.1
IV 16000		21.4	23.3	26.2	28.6	29.5	30.8	31.8	32.1	33.2	33.3	33.4	33.5	33.8	33.9	34.2
IV 14000		21.5	23.4	26.3	28.7	29.6	30.9	31.9	32.2	33.3	33.4	33.5	33.6	33.9	34.0	34.4
IV 12000		22.3	24.3	27.5	30.1	31.2	32.5	33.6	34.1	35.2	35.3	35.4	35.7	35.9	36.0	36.4
IV 10000		25.6	28.0	31.4	34.2	35.3	36.6	37.4	38.3	39.3	39.4	39.6	39.8	40.1	40.3	40.6
IV 9000		26.9	29.3	32.8	35.7	36.7	38.0	39.2	39.7	40.7	40.9	41.0	41.2	41.6	41.7	42.0
IV 8000		27.7	30.5	34.5	37.4	38.5	39.8	41.1	41.6	42.6	42.7	42.9	43.1	43.4	43.6	43.9
IV 7000		28.9	32.0	36.0	39.3	40.4	41.7	43.0	43.4	44.5	44.6	44.7	45.0	45.3	45.5	45.8
IV 6000		30.9	34.0	38.0	41.8	42.9	44.2	45.5	46.2	47.2	47.3	47.5	47.7	48.1	48.2	48.5
IV 5000		33.4	36.8	41.1	46.0	47.1	48.5	49.9	50.8	51.8	51.9	52.1	52.3	52.7	52.8	53.1
IV 4500		35.2	38.6	43.2	48.3	49.6	51.1	52.5	53.4	54.4	54.5	54.7	54.9	55.3	55.4	55.7
IV 4000		37.4	41.3	46.2	52.4	53.8	55.4	56.9	57.7	58.8	58.9	59.0	59.3	59.6	59.7	60.1
IV 3500		40.2	44.3	49.6	56.0	57.7	59.7	61.3	62.1	63.2	63.3	63.4	63.6	64.0	64.1	64.5
IV 3000		42.7	47.1	52.9	60.4	62.2	64.3	66.0	67.1	68.2	68.4	68.5	68.7	69.1	69.2	69.5
IV 2500		45.3	50.4	56.3	64.8	66.8	68.9	70.7	71.8	73.0	73.1	73.2	73.4	73.8	73.9	74.3
IV 2000		48.3	53.8	60.0	69.1	71.2	73.3	75.1	75.2	77.3	77.4	77.5	77.8	78.2	78.3	78.6
IV 1800		49.1	54.9	61.0	70.2	72.4	74.5	76.3	77.3	78.5	78.6	78.7	79.0	79.3	79.5	79.8
IV 1500		49.4	55.3	61.6	71.5	73.7	76.0	77.9	79.0	80.3	80.4	80.5	80.8	81.1	81.2	81.6
IV 1200		50.9	57.1	63.8	74.5	76.6	79.3	81.3	82.4	83.7	83.8	83.9	84.2	84.5	84.7	85.0
IV 1000		50.9	57.3	63.9	75.1	77.6	80.5	82.9	83.9	85.2	85.4	85.5	85.7	86.1	86.2	86.5
IV 900		50.9	57.3	63.9	75.6	78.0	81.0	83.5	84.5	85.8	86.0	86.1	86.3	86.7	86.8	87.1
IV 800		51.1	57.6	64.2	76.3	78.7	81.8	84.5	85.8	87.1	87.2	87.4	87.6	88.0	88.1	88.4
IV 700		51.2	57.7	64.3	76.7	79.2	82.4	85.4	86.7	88.0	88.1	88.2	88.4	88.8	88.9	89.3
IV 600		51.2	57.9	64.5	77.0	79.6	82.9	85.8	87.1	88.4	88.5	88.7	88.8	89.3	89.4	89.7
IV 500		51.2	57.9	64.5	77.7	80.3	83.8	87.0	88.3	89.6	89.7	89.8	90.1	90.4	90.6	90.9
IV 400		51.2	57.9	64.6	77.8	80.6	84.3	88.4	89.7	91.1	91.3	91.4	91.6	92.0	92.1	92.4
IV 300		51.2	57.9	64.6	77.8	80.9	84.8	89.6	91.3	92.7	92.8	93.0	93.3	93.6	93.7	94.1
IV 200		51.2	57.9	64.6	77.9	81.0	84.9	89.8	91.6	93.0	93.1	93.3	94.1	94.6	95.2	96.2
IV 100		51.2	57.9	64.6	77.9	81.0	84.9	89.8	91.6	93.0	93.1	93.3	94.1	94.6	95.2	96.2
IV 0		51.2	57.9	64.6	77.9	81.0	84.9	89.8	91.6	93.0	93.1	93.3	94.1	94.6	95.2	96.2

TOTAL NUMBER OF OBSERVATIONS 847

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-2000
HOURS LST

CEILING FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥½	≥5/16	≥¼	≥0
NO CEILING		11.5	13.0	14.8	18.8	19.1	20.0	20.6	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.4
≥ 20000		12.7	14.4	16.6	20.9	21.4	22.3	22.9	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.7
IV 18000		12.7	14.4	16.8	21.2	21.6	22.6	23.1	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.9
IV 16000		12.7	14.4	16.8	21.2	21.6	22.6	23.1	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.9
IV 14000		12.7	14.4	16.9	21.3	21.7	22.7	23.2	23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.1
IV 12000		12.9	14.7	17.3	21.7	22.2	23.1	23.8	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.6
IV 10000		14.8	16.7	19.2	24.5	25.0	26.0	26.9	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.7
IV 9000		16.1	18.0	20.5	25.8	26.2	27.3	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8	29.0
IV 8000		16.5	18.4	20.9	26.2	26.7	27.7	28.7	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.5
IV 7000		17.7	19.9	22.7	28.1	28.5	29.7	30.6	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.4
IV 6000		19.4	21.7	24.6	30.4	30.8	32.2	33.1	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.9
IV 5000		21.5	23.8	27.4	33.6	34.4	35.9	37.1	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.9
IV 4500		24.1	26.5	30.5	37.5	38.3	39.8	41.1	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.9
IV 4000		26.1	29.5	33.9	41.7	42.7	44.3	45.9	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.7
IV 3500		28.7	32.0	36.5	44.6	46.1	48.1	49.9	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.9
IV 3000		30.7	34.5	39.0	47.3	48.8	51.0	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.9
IV 2500		32.8	37.3	43.4	52.5	54.3	57.3	59.4	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.3
IV 2000		35.6	41.0	48.0	57.9	60.3	63.3	65.7	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7
IV 1800		37.1	42.8	50.4	60.4	62.8	66.1	68.4	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.4
IV 1500		39.4	45.5	54.3	64.7	67.7	71.5	74.5	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6
IV 1200		40.7	47.2	56.8	68.4	71.6	75.7	78.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1
IV 1000		41.1	47.5	58.3	70.2	73.4	77.9	81.6	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.7
IV 900		41.2	47.6	58.7	71.2	74.5	79.3	83.1	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.2
IV 800		41.2	47.9	59.0	71.3	75.5	80.4	84.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.8
IV 700		41.3	48.0	59.3	73.1	77.1	82.6	86.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	88.0
IV 600		41.3	48.0	59.8	74.2	78.6	84.3	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.2
IV 500		41.3	48.0	60.3	75.6	80.1	86.1	90.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.5
IV 400		41.3	48.0	60.4	75.8	80.4	86.7	92.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.1
IV 300		41.3	48.0	60.4	76.2	80.8	87.0	93.0	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.9
IV 200		41.3	48.0	60.4	76.2	80.8	87.0	93.3	95.4	96.2	96.2	96.2	96.2	96.2	96.2	97.7
IV 100		41.3	48.0	60.4	76.2	80.8	87.0	93.3	95.5	96.5	96.5	96.5	96.5	96.5	96.5	97.7
IV 0		41.3	48.0	60.4	76.2	80.8	87.0	93.3	95.5	96.5	96.5	96.5	96.5	96.5	96.5	97.7

TOTAL NUMBER OF OBSERVATIONS 369

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

DE
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥½	≥¼	≥0
NO CEILING																
≥ 20000		10.7	11.5	12.7	15.5	16.0	17.5	17.9	18.1	18.1	18.1	18.2	18.3	18.3	18.3	18.4
≥ 18000		11.5	12.5	14.1	17.2	17.8	19.3	19.7	19.9	19.9	19.9	20.0	20.1	20.1	20.1	20.2
≥ 16000		11.5	12.7	14.4	17.5	18.1	19.7	20.0	20.2	20.2	20.2	20.3	20.4	20.4	20.4	20.5
≥ 14000		11.5	12.7	14.4	17.5	18.1	19.7	20.0	20.2	20.2	20.2	20.3	20.4	20.4	20.4	20.6
≥ 12000		12.1	13.5	15.3	19.0	19.6	21.1	21.5	21.7	21.7	21.7	21.8	21.9	21.9	21.9	22.0
≥ 10000		13.7	15.2	17.2	21.2	21.8	23.4	23.7	23.9	23.9	23.9	24.0	24.1	24.1	24.1	24.2
≥ 9000		14.2	15.8	17.8	22.0	22.6	24.4	24.7	24.7	24.9	24.9	25.0	25.1	25.1	25.1	25.3
≥ 8000		15.3	16.9	18.9	23.2	23.8	25.6	25.9	26.1	26.1	26.1	26.3	26.4	26.4	26.4	26.5
≥ 7000		16.0	17.8	19.9	24.5	25.0	26.9	27.5	27.7	27.7	27.7	27.8	27.9	27.9	27.9	28.0
≥ 6000		17.4	19.2	21.6	26.5	27.2	29.1	29.6	29.8	29.8	29.8	29.9	30.1	30.1	30.1	30.1
≥ 5000		20.4	23.0	25.6	31.2	32.1	34.1	34.7	35.0	35.0	35.0	35.1	35.2	35.2	35.2	35.3
≥ 4500		23.8	26.4	29.3	35.5	36.4	38.8	39.4	39.7	39.7	39.7	39.8	39.9	39.9	39.9	40.0
≥ 4000		26.8	30.2	33.4	40.1	41.0	43.4	44.4	44.6	44.6	44.6	44.7	44.8	44.8	44.8	44.9
≥ 3500		29.1	33.0	36.9	43.8	45.0	48.0	49.4	49.7	49.7	49.7	49.8	49.9	49.9	49.9	50.1
≥ 3000		30.4	34.7	39.6	47.2	48.5	51.7	53.5	53.9	53.9	53.9	54.0	54.1	54.1	54.1	54.2
≥ 2500		32.2	36.8	42.1	51.4	53.5	56.9	59.0	59.3	59.3	59.3	59.4	59.6	59.6	59.6	59.7
≥ 2000		35.4	40.9	47.2	56.9	59.2	63.1	65.4	65.7	65.7	65.7	65.8	65.9	65.9	65.9	66.0
≥ 1800		36.6	42.1	49.1	59.6	62.1	65.9	68.2	68.5	68.5	68.6	68.7	68.8	68.8	68.8	68.9
≥ 1500		38.4	44.2	52.0	63.2	66.5	70.4	73.1	73.4	73.4	73.4	73.6	73.7	73.7	73.7	73.9
≥ 1200		39.7	46.0	55.0	67.0	70.4	74.3	77.3	77.7	77.7	77.7	77.9	78.0	78.1	78.1	78.2
≥ 1000		40.1	46.8	56.4	69.4	72.7	77.1	80.9	81.2	81.2	81.2	81.5	81.6	81.7	81.7	81.8
≥ 900		40.1	47.0	56.8	69.9	73.3	77.9	81.8	82.1	82.2	82.2	82.5	82.6	82.7	82.7	82.8
≥ 800		40.2	47.3	57.0	70.7	74.3	79.1	83.4	84.0	84.1	84.1	84.4	84.5	84.6	84.6	84.7
≥ 700		40.3	47.4	57.3	72.1	76.0	81.3	85.8	86.5	86.6	86.6	86.9	87.0	87.0	87.0	87.2
≥ 600		40.3	47.5	57.9	73.2	77.3	82.9	87.8	88.7	88.8	88.8	89.1	89.2	89.3	89.3	89.4
≥ 500		40.4	47.7	58.2	74.4	78.8	84.9	89.9	90.9	91.1	91.2	91.4	91.5	91.5	91.5	91.6
≥ 400		40.4	47.7	58.4	74.6	79.4	85.4	91.2	92.4	92.6	92.8	93.0	93.1	93.1	93.1	93.2
≥ 300		40.4	47.7	58.4	74.9	79.7	85.8	92.7	94.3	94.5	94.9	95.0	95.1	95.1	95.1	95.2
≥ 200		40.4	47.7	58.4	74.9	79.9	86.0	93.1	95.0	95.9	96.3	96.5	96.6	96.9	97.0	97.1
≥ 100		40.4	47.7	58.4	74.9	79.9	86.0	93.1	95.0	95.9	96.5	96.9	97.2	97.8	98.1	98.2
0		40.4	47.7	58.4	74.9	79.9	86.0	93.1	95.0	95.9	96.5	96.9	97.4	98.0	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS

895

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
17 OF 17

07-76
YEAR

DFC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0600-1800
HOURS LST

CEILING- FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		10.1	10.7	12.2	13.7	14.9	16.7	18.7	19.0	19.1	19.1	19.1	19.4	19.4	19.5	19.6
IV 20000		11.1	12.0	13.9	15.8	16.9	18.7	20.7	21.1	21.3	21.3	21.3	21.5	21.5	21.6	21.7
IV 18000		11.1	12.0	13.9	15.8	16.9	18.7	20.7	21.1	21.3	21.3	21.3	21.5	21.5	21.6	21.7
IV 16000		11.1	12.0	13.9	15.8	16.9	18.7	20.7	21.1	21.3	21.3	21.3	21.5	21.5	21.6	21.7
IV 14000		11.1	12.2	14.2	16.1	17.5	19.4	21.4	21.7	22.0	22.0	22.0	22.2	22.2	22.3	22.4
IV 12000		11.3	12.4	14.9	17.0	18.4	20.3	22.4	22.7	23.0	23.0	23.0	23.2	23.2	23.3	23.4
IV 10000		12.2	13.4	16.1	18.5	19.8	21.8	24.0	24.3	24.5	24.5	24.5	24.8	24.8	24.9	25.0
IV 9000		12.5	13.9	16.6	19.1	20.6	22.7	25.0	25.3	25.6	25.6	25.6	25.8	25.8	25.9	26.0
IV 8000		12.8	14.2	16.9	19.0	21.1	23.2	25.5	25.8	26.0	26.0	26.0	26.2	26.2	26.4	26.5
IV 7000		13.5	15.0	17.8	20.6	22.2	24.3	26.7	27.0	27.3	27.3	27.3	27.5	27.5	27.6	27.7
IV 6000		14.4	16.0	18.9	21.7	23.6	25.8	28.3	28.6	28.8	28.8	28.8	29.1	29.1	29.2	29.3
IV 5000		16.0	18.0	21.3	24.5	27.4	29.6	32.3	32.7	32.9	32.9	32.9	33.1	33.1	33.2	33.3
IV 4500		18.6	20.7	24.4	28.4	31.4	33.8	36.6	36.9	37.2	37.2	37.2	37.4	37.4	37.5	37.6
IV 4000		21.7	24.0	28.0	32.9	36.0	38.6	42.0	42.3	42.7	42.7	42.7	42.9	42.9	43.0	43.1
IV 3500		24.2	26.8	31.0	36.7	40.0	42.8	46.7	47.2	47.5	47.7	47.7	48.0	48.0	48.1	48.2
IV 3000		25.9	28.7	33.3	39.6	43.4	46.2	50.7	51.1	51.6	51.8	51.8	52.0	52.0	52.1	52.3
IV 2500		27.7	31.0	36.4	43.6	47.5	50.5	55.2	55.7	56.2	56.4	56.4	56.6	56.6	56.8	56.9
IV 2000		30.3	33.8	39.4	47.2	51.5	54.5	60.2	61.3	61.7	61.9	61.9	62.2	62.2	62.3	62.4
IV 1800		31.5	35.1	41.3	49.4	53.8	56.9	62.7	63.7	64.2	64.4	64.4	64.6	64.6	64.8	64.9
IV 1500		33.4	37.3	44.1	53.7	58.8	61.8	68.2	69.4	69.8	70.0	70.0	70.3	70.3	70.4	70.5
IV 1200		35.1	39.5	47.6	58.3	63.7	67.1	73.9	75.0	75.5	75.7	75.7	75.9	75.9	76.0	76.1
IV 1000		35.4	40.1	48.5	60.5	65.9	69.5	76.6	77.7	78.2	78.4	78.4	78.6	78.6	78.7	78.8
IV 900		35.5	40.2	48.6	60.9	66.3	69.9	77.3	78.4	78.8	79.1	79.1	79.3	79.3	79.4	79.5
IV 800		35.5	40.2	49.0	61.7	67.6	71.5	78.9	80.3	80.7	81.0	81.0	81.2	81.2	81.3	81.4
IV 700		35.6	40.3	49.3	62.4	68.5	72.7	80.7	82.1	82.9	83.1	83.1	83.3	83.3	83.4	83.6
IV 600		35.6	40.3	49.5	64.0	70.3	74.9	83.8	85.4	86.4	86.7	86.8	87.0	87.0	87.2	87.3
IV 500		35.6	40.3	49.9	64.8	71.3	76.0	86.0	87.2	89.2	89.5	89.6	89.9	89.9	90.0	90.1
IV 400		35.6	40.3	50.0	65.0	71.5	76.6	87.3	89.5	91.2	91.8	91.9	92.1	92.1	92.2	92.3
IV 300		35.6	40.3	50.0	65.0	71.6	77.1	88.4	91.2	93.1	93.9	94.1	94.4	94.6	94.7	94.8
IV 200		35.6	40.3	50.0	65.0	71.6	77.1	88.5	91.4	93.9	94.9	95.2	95.4	96.2	96.4	96.6
IV 100		35.6	40.3	50.0	65.0	71.6	77.1	88.5	91.4	93.9	95.2	95.5	95.9	97.1	97.3	98.4
IV 0		35.6	40.3	50.0	65.0	71.6	77.1	88.5	91.4	93.9	95.2	95.5	95.9	97.1	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 888

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

07-76

UFC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS LST

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥1	≥.5	≥.5	≥.5	≥.5	≥.5	≥.5
NO CEILING		3.8	9.2	10.9	13.3	14.7	16.3	18.0	18.3	18.4	18.7	18.8	19.8	18.9	18.9	18.9
≥ 20000		11.4	12.0	15.3	18.2	20.0	21.7	23.9	24.4	24.6	24.6	25.0	25.0	25.3	25.3	25.3
IV 18000		11.4	12.0	15.3	18.2	20.0	21.7	23.9	24.4	24.6	24.6	25.0	25.0	25.3	25.3	25.3
IV 16000		11.4	12.0	15.3	18.2	20.0	21.7	23.9	24.4	24.6	24.6	25.0	25.0	25.3	25.3	25.3
IV 14000		11.7	12.3	15.6	18.5	20.3	22.0	24.3	24.7	24.9	25.1	25.4	25.4	25.6	25.6	25.6
IV 12000		12.3	12.8	16.3	19.2	21.1	22.8	25.4	25.9	26.1	26.4	26.6	26.6	26.8	26.8	26.8
IV 10000		13.0	13.5	17.3	20.3	22.3	24.4	27.3	27.0	28.0	28.3	28.5	28.6	28.8	28.8	28.8
IV 8000		13.5	14.1	18.1	21.3	23.4	25.4	28.3	28.8	29.1	29.3	29.5	29.6	29.8	29.8	29.8
IV 7000		14.0	14.5	18.5	22.1	24.5	26.5	29.4	29.9	30.2	30.4	30.6	30.7	30.9	30.9	30.9
IV 6000		14.0	14.6	18.7	22.3	24.9	27.2	30.1	30.6	30.8	31.1	31.3	31.4	31.6	31.6	31.6
IV 5000		14.9	15.5	19.7	23.0	26.4	28.6	31.5	32.1	32.3	32.5	32.7	32.8	33.1	33.1	33.1
IV 4500		17.0	18.5	22.8	27.5	30.5	32.8	36.0	36.5	36.8	37.0	37.2	37.3	37.5	37.5	37.5
IV 4000		19.1	20.3	24.6	29.8	33.1	35.6	38.9	39.4	39.7	39.9	40.1	40.2	40.4	40.4	40.4
IV 3500		21.0	22.6	27.0	33.0	36.8	39.7	43.1	43.8	44.2	44.5	44.8	44.9	45.1	45.1	45.1
IV 3000		22.0	24.6	29.2	36.1	40.4	44.2	48.3	49.1	49.7	50.1	50.4	50.5	50.7	50.7	50.7
IV 2500		24.5	26.9	31.7	39.4	44.0	48.2	52.8	54.3	55.2	55.6	56.0	56.1	56.3	56.3	56.3
IV 2000		26.4	29.2	34.4	42.3	47.0	51.3	56.2	57.9	58.8	59.2	59.6	59.7	59.9	59.9	59.9
IV 1800		27.9	30.9	36.3	44.7	49.9	54.9	60.4	62.2	63.1	63.6	63.9	64.0	64.2	64.2	64.2
IV 1500		28.7	32.0	37.7	46.4	51.8	56.2	62.8	64.6	65.5	65.9	66.3	66.4	66.6	66.6	66.6
IV 1200		30.4	33.9	40.3	49.9	55.6	60.3	67.9	70.1	71.3	71.7	72.1	72.2	72.4	72.4	72.4
IV 1000		31.7	35.6	42.9	54.0	59.9	64.9	73.6	76.0	77.3	77.8	78.1	78.2	78.4	78.4	78.4
IV 900		32.3	36.2	43.8	55.2	61.6	66.7	76.1	78.5	80.1	80.6	80.9	81.0	81.2	81.2	81.2
IV 800		32.3	36.2	44.0	55.5	61.9	67.3	77.1	79.6	81.1	81.6	81.9	82.0	82.2	82.2	82.2
IV 700		32.4	36.3	44.4	55.5	62.9	68.4	78.5	81.0	82.7	83.1	83.6	83.7	83.9	83.9	83.9
IV 600		32.4	36.3	44.7	57.4	63.8	69.7	80.6	83.1	84.8	85.3	85.7	85.8	86.0	86.0	86.0
IV 500		32.6	36.5	45.0	58.5	64.9	71.1	82.5	85.7	87.5	87.9	88.4	88.6	88.9	88.9	88.9
IV 400		32.6	36.5	45.1	58.9	65.3	71.6	83.8	87.3	89.4	89.9	90.4	90.9	91.3	91.3	91.3
IV 300		32.6	36.5	45.2	59.0	65.4	72.0	84.6	88.5	91.2	91.8	93.0	93.4	93.7	93.7	93.7
IV 200		32.6	36.5	45.3	59.0	65.4	72.0	84.8	89.1	92.4	93.3	94.6	95.2	96.0	96.0	96.1
IV 100		32.6	36.5	45.3	59.0	65.4	72.0	84.9	89.2	92.7	93.7	95.2	96.0	97.2	97.2	97.3
IV 0		32.6	36.5	45.3	59.0	65.4	72.0	84.9	89.2	92.7	93.7	95.2	96.1	97.5	97.5	98.1
		32.6	36.5	45.3	59.0	65.4	72.0	84.9	89.2	92.7	93.7	95.5	96.4	98.2	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 895

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.4	≥.4	≥.3	≥.25	≥.2	≥0
NO CEILING		9.4	10.3	11.7	13.7	14.4	14.8	15.2	16.3	16.6	16.8	16.9	16.8	15.9	16.7	16.9
≥ 20000		12.2	13.7	15.8	18.8	19.7	20.5	22.0	22.1	22.6	22.9	22.9	22.9	23.0	23.0	23.0
≥ 18000		12.2	13.7	15.8	18.8	19.7	20.5	22.0	22.1	22.6	22.9	22.9	22.9	23.0	23.0	23.0
≥ 16000		12.2	13.7	15.8	18.8	19.7	20.5	22.0	22.1	22.6	22.9	22.9	22.9	23.0	23.0	23.0
≥ 14000		12.8	14.3	16.6	19.7	20.6	21.4	22.9	23.0	23.5	23.8	23.8	23.8	23.9	23.9	23.9
≥ 12000		13.6	15.1	17.9	21.2	22.3	23.1	24.6	24.7	25.2	25.5	25.5	25.5	25.7	25.7	25.7
≥ 10000		14.5	16.0	19.0	23.3	24.4	25.3	26.8	27.1	27.6	27.9	27.9	27.9	28.1	28.1	28.1
≥ 9000		15.3	16.9	20.2	24.5	25.7	26.6	28.2	28.5	29.1	29.4	29.4	29.4	29.5	29.5	29.5
≥ 8000		15.8	17.4	20.8	25.4	26.6	27.5	29.1	29.4	30.1	30.4	30.4	30.6	30.7	30.7	30.7
≥ 7000		16.0	17.6	21.1	26.1	27.3	28.2	29.8	30.2	30.9	31.2	31.4	31.4	31.5	31.5	31.5
≥ 6000		16.5	18.3	22.1	27.7	29.0	30.1	31.8	32.4	33.2	33.5	33.4	33.6	33.8	33.8	33.8
≥ 5000		19.0	21.2	25.2	31.5	32.8	34.0	35.8	36.4	37.3	37.8	37.7	37.7	37.9	37.9	37.9
≥ 4500		19.8	22.0	26.0	32.7	34.1	35.5	37.4	38.0	38.9	39.2	39.3	39.3	39.5	39.5	39.5
≥ 4000		23.0	25.4	29.6	37.3	38.8	40.3	42.8	43.6	44.7	45.0	45.2	45.2	45.3	45.3	45.3
≥ 3500		24.5	27.0	31.8	40.4	42.4	44.0	46.6	47.7	48.9	49.3	49.4	49.4	49.5	49.5	49.5
≥ 3000		28.6	31.8	37.2	46.5	49.4	51.1	54.0	55.4	56.8	57.1	57.2	57.2	57.4	57.4	57.4
≥ 2500		31.5	35.1	40.9	50.4	53.7	55.8	59.3	60.8	62.4	62.7	62.8	62.8	62.9	62.9	62.9
≥ 2000		33.4	37.2	43.2	53.1	56.7	59.3	63.3	65.0	66.6	66.9	67.0	67.0	67.2	67.2	67.2
≥ 1800		35.1	39.0	45.5	56.1	59.6	62.3	66.2	68.0	69.6	70.0	70.1	70.1	70.2	70.2	70.2
≥ 1500		36.1	40.1	47.8	59.0	62.7	65.7	70.7	72.4	74.3	74.8	74.9	74.9	75.1	75.1	75.1
≥ 1200		37.5	42.2	50.7	62.9	66.9	70.5	75.9	77.8	79.7	80.3	80.4	80.4	80.6	80.6	80.6
≥ 1000		38.0	42.6	51.8	65.2	69.2	73.0	78.9	80.7	82.8	83.6	83.8	83.8	84.0	84.0	84.0
≥ 900		38.0	42.6	52.0	65.6	69.6	73.8	79.9	81.8	83.8	84.6	84.9	85.1	85.3	85.3	85.3
≥ 800		38.0	42.6	52.2	66.8	70.6	75.4	82.0	84.2	86.3	87.1	87.5	87.6	87.8	87.8	87.8
≥ 700		38.0	42.6	53.2	68.3	72.3	76.9	84.0	86.4	89.3	90.1	90.4	90.5	90.8	90.8	90.8
≥ 600		38.0	42.6	53.2	68.4	72.4	77.1	84.7	87.3	90.3	91.2	91.7	91.9	92.2	92.2	92.2
≥ 500		38.0	42.6	53.4	68.8	72.7	77.8	86.0	88.8	92.2	93.2	93.6	93.8	94.2	94.2	94.2
≥ 400		38.0	42.6	53.4	68.8	72.9	78.0	86.7	89.6	94.0	95.1	95.7	96.0	96.4	96.4	96.4
≥ 300		38.0	42.6	53.4	68.8	72.9	78.0	86.7	89.6	94.1	95.2	96.4	96.8	97.1	97.1	97.1
≥ 200		38.0	42.6	53.4	68.8	72.9	78.0	86.7	89.6	94.2	95.3	96.5	96.9	97.5	97.7	97.7
≥ 100		38.0	42.6	53.4	68.8	72.9	78.0	86.7	89.6	94.2	95.3	96.5	96.9	97.6	97.9	98.5
≥ 0		38.0	42.6	53.4	68.8	72.9	78.0	86.7	89.6	94.2	95.4	96.6	97.3	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

877

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

07-76
YEARS

JE
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS L.S.

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1.5	≥1.2	≥1	≥¾	≥½	≥.5	≥.25	≥.1	≥0
NO CEILING		10.9	12.0	13.8	15.0	15.9	16.7	18.0	18.5	18.8	19.0	19.0	19.0	19.2	19.2	19.2
IV 20000		14.5	15.7	17.9	19.7	20.8	22.3	24.1	24.5	24.9	25.3	25.3	25.3	25.4	25.4	25.4
IV 18000		14.5	15.7	17.9	19.7	20.8	22.3	24.1	24.5	24.9	25.3	25.3	25.3	25.4	25.4	25.4
IV 16000		14.5	15.7	17.9	19.7	20.8	22.3	24.1	24.5	24.9	25.3	25.3	25.3	25.4	25.4	25.4
IV 14000		14.7	15.0	18.3	20.0	21.3	22.7	24.5	24.9	25.4	25.7	25.7	25.7	25.8	25.8	25.8
IV 12000		15.5	16.8	19.4	21.8	23.5	24.9	26.8	27.3	27.7	28.1	28.1	28.1	28.2	28.2	28.2
IV 10000		16.7	18.0	21.0	23.9	25.8	27.3	29.3	29.7	30.2	30.5	30.5	30.5	30.6	30.6	30.6
IV 9000		16.9	18.4	21.5	24.5	26.5	28.1	30.1	30.5	31.0	31.3	31.3	31.3	31.4	31.4	31.4
IV 8000		17.3	18.7	22.0	25.2	27.2	28.8	31.0	31.4	31.8	32.2	32.2	32.2	32.3	32.3	32.3
IV 7000		17.3	18.8	22.7	25.8	27.8	29.5	31.6	32.1	32.5	32.9	32.9	32.9	33.0	33.0	33.0
IV 6000		18.0	19.8	23.7	27.1	29.2	30.8	33.2	33.6	34.2	34.5	34.5	34.5	34.6	34.6	34.6
IV 5000		19.9	22.0	26.1	30.2	32.4	34.5	37.1	37.5	38.1	38.4	38.4	38.4	38.5	38.5	38.5
IV 4500		21.3	23.7	27.8	32.2	34.5	36.6	39.2	39.6	40.2	40.5	40.5	40.5	40.6	40.6	40.6
IV 4000		24.8	28.1	32.3	37.3	39.9	42.2	45.4	45.9	46.7	47.0	47.0	47.0	47.1	47.1	47.1
IV 3500		27.4	31.1	35.7	41.2	44.1	46.7	50.2	50.7	51.4	51.8	51.8	51.8	51.9	51.9	51.9
IV 3000		30.5	34.5	39.6	46.2	49.9	52.8	56.8	57.6	58.4	58.7	58.7	58.7	58.8	58.8	58.8
IV 2500		33.0	37.2	43.3	50.4	54.2	57.2	61.4	62.2	63.1	63.5	63.5	63.5	63.6	63.6	63.6
IV 2000		35.3	40.4	47.1	55.0	58.8	62.7	67.1	68.4	69.5	69.8	69.8	69.8	69.9	69.9	69.9
IV 1800		36.2	41.6	49.0	57.5	61.2	65.1	69.9	71.2	72.3	72.7	72.7	72.7	72.8	72.8	72.8
IV 1500		37.5	43.8	51.3	60.4	64.3	68.4	73.7	75.2	76.5	76.9	76.9	76.9	77.1	77.1	77.1
IV 1200		38.3	44.9	53.5	63.6	67.7	72.4	78.5	80.1	81.4	82.0	82.0	82.0	82.1	82.1	82.1
IV 1000		38.6	45.4	54.7	65.8	70.3	75.8	82.3	83.9	85.3	85.9	85.9	85.9	86.0	86.0	86.0
IV 900		38.6	45.4	54.9	66.3	70.8	76.4	83.1	84.9	86.4	87.0	87.0	87.0	87.1	87.1	87.1
IV 800		38.6	45.4	55.5	67.0	71.7	78.0	85.0	87.0	89.0	89.5	89.5	89.5	89.6	89.6	89.6
IV 700		38.8	45.7	55.9	67.8	72.8	79.1	86.3	88.3	90.4	91.0	91.0	91.0	91.1	91.1	91.1
IV 600		38.8	45.7	56.1	68.9	74.2	80.5	88.1	90.4	92.5	93.1	93.1	93.1	93.2	93.2	93.2
IV 500		38.8	45.7	56.1	68.9	74.2	80.6	88.5	91.1	93.4	94.1	94.1	94.1	94.3	94.3	94.3
IV 400		38.8	45.7	56.1	68.9	74.2	80.7	89.1	92.1	94.9	95.8	96.0	96.0	96.2	96.2	96.2
IV 300		38.8	45.7	56.1	68.9	74.2	80.8	89.2	92.3	95.7	96.5	96.9	96.9	97.3	97.3	97.3
IV 200		38.8	45.7	56.1	68.9	74.2	80.8	89.2	92.4	96.0	97.4	97.9	97.9	98.4	98.4	98.4
IV 100		38.8	45.7	56.1	68.9	74.2	80.8	89.2	92.4	96.0	97.4	97.9	98.0	98.9	99.0	99.3
IV 0		38.8	45.7	56.1	68.9	74.2	80.8	89.2	92.4	96.0	97.4	98.0	98.3	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 898

2
 DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-2000
HOURS 15

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥.5	≥.3	≥.25	≥.2	≥.15	≥.1
NO CEILING	12.9	13.7	17.8	21.6	22.4	23.1	23.7	24.2	24.4	24.4	24.4	24.4	24.5	24.7	24.7	24.9
≥ 20000	14.8	15.9	20.3	24.3	25.6	26.3	27.1	27.5	27.7	27.7	27.7	27.7	27.9	28.0	28.0	28.2
IV ≥ 18000	14.8	15.9	20.3	24.3	25.6	26.3	27.1	27.5	27.7	27.7	27.7	27.9	28.0	28.0	28.2	
IV 16000	14.8	15.9	20.3	24.3	25.6	26.3	27.1	27.5	27.7	27.7	27.7	27.9	28.0	28.0	28.2	
IV 14000	15.5	16.6	21.0	25.1	26.4	27.1	27.9	28.3	26.5	28.5	28.5	28.7	28.9	28.8	29.0	
IV 12000	16.3	17.4	22.0	26.3	27.6	28.3	29.7	29.7	29.9	29.9	29.9	30.0	30.1	30.1	30.4	
IV 10000	16.6	17.7	22.7	27.4	28.8	29.5	30.4	30.8	31.1	31.1	31.1	31.2	31.3	31.3	31.5	
IV 9000	17.2	18.5	23.6	28.4	30.0	30.7	31.6	32.1	32.3	32.3	32.3	32.4	32.5	32.5	32.6	
IV 8000	17.6	18.9	24.1	29.0	30.6	31.3	32.2	32.6	32.9	32.9	32.9	33.0	33.1	33.1	33.3	
IV 7000	18.5	19.9	25.2	30.3	31.9	32.5	33.4	33.9	34.1	34.1	34.1	34.2	34.4	34.4	34.6	
IV 6000	20.1	21.8	27.3	32.3	33.9	34.6	35.5	36.0	36.2	36.2	36.7	36.3	36.4	36.4	36.6	
IV 5000	22.5	24.2	29.7	35.2	36.8	37.6	38.6	39.0	39.3	39.3	39.3	39.4	39.5	39.5	39.7	
IV 4500	24.5	26.3	32.2	38.1	39.8	40.8	42.2	42.7	42.9	42.9	42.9	43.0	43.2	43.2	43.4	
IV 4000	26.8	28.7	34.6	40.6	42.4	43.3	45.0	45.4	45.7	45.7	45.7	45.8	45.9	45.9	46.1	
IV 3500	29.3	31.6	38.1	44.9	46.8	47.7	49.4	49.9	50.2	50.2	50.2	50.3	50.5	50.5	50.7	
IV 3000	31.5	34.2	41.6	49.2	51.4	52.4	54.9	55.6	55.9	55.9	55.9	56.1	56.2	56.2	56.4	
IV 2500	34.4	37.8	46.3	54.3	56.8	56.1	60.6	61.3	61.6	61.6	61.6	61.8	61.9	61.9	62.1	
IV 2000	37.4	41.6	51.5	60.4	63.2	64.8	67.7	68.5	68.8	68.8	68.8	68.9	69.1	69.1	69.3	
IV 1800	38.6	42.8	53.3	62.4	65.3	66.9	69.9	70.7	71.0	71.0	71.0	71.1	71.2	71.2	71.5	
IV 1500	40.4	45.5	56.6	66.9	70.3	72.3	75.5	76.4	76.8	76.8	76.8	76.9	77.1	77.1	77.3	
IV 1200	41.7	46.9	59.0	70.9	74.4	76.6	80.5	81.4	81.8	81.8	81.8	82.0	82.1	82.1	82.3	
IV 1000	42.0	47.5	60.0	72.7	76.5	79.1	83.7	84.8	85.3	85.3	85.3	85.4	85.5	85.5	85.7	
IV 900	42.0	47.6	60.3	73.5	77.4	80.3	84.8	86.0	86.4	86.4	86.4	86.5	86.6	86.6	86.9	
IV 800	42.2	47.8	61.0	74.4	78.3	81.6	86.4	87.7	88.1	88.1	88.1	88.2	88.4	88.4	88.6	
IV 700	42.2	48.1	61.5	75.1	79.5	83.0	88.0	89.5	90.0	90.0	90.0	90.1	90.2	90.2	90.4	
IV 600	42.2	48.1	61.9	76.1	80.5	84.1	89.4	90.9	91.3	91.3	91.3	91.4	91.6	91.6	91.8	
IV 500	42.2	48.1	62.1	76.8	81.6	85.6	91.4	93.0	93.5	93.5	93.5	93.6	93.7	93.7	93.9	
IV 400	42.2	48.1	62.1	76.8	81.7	85.7	91.9	93.7	94.5	94.5	94.5	94.6	94.7	94.7	95.0	
IV 300	42.2	48.1	62.1	76.8	81.7	85.7	92.5	94.5	96.5	96.7	96.7	96.6	96.9	96.9	97.1	
IV 200	42.2	48.1	62.1	76.8	81.7	86.0	92.5	94.7	97.0	97.0	97.4	97.5	97.7	97.7	97.9	
IV 100	42.2	48.1	62.1	76.8	81.7	86.0	92.5	94.7	97.0	97.0	97.6	97.7	98.2	98.9	99.0	
IV 0	42.2	48.1	62.1	76.8	81.7	86.0	92.5	94.7	97.0	97.0	97.7	97.8	98.4	99.3	99.5	

TOTAL NUMBER OF OBSERVATIONS

876

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-76
YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS CST

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.4	≥.3	≥.2	≥.16	≥.1	≥0
NO CEILING ≥ 20000	12.2	13.6	16.9	21.0	21.0	22.3	23.0	23.0	23.8	23.6	23.9	23.6	23.6	23.9	24.0	24.0
IV 18000 16000	13.2	14.7	18.4	23.0	24.1	24.4	25.1	25.8	25.9	25.9	25.9	25.9	25.9	26.0	26.1	26.1
IV 14000 12000	13.3	14.8	18.6	23.2	24.3	24.7	25.3	26.0	26.1	26.1	26.1	26.1	26.1	26.2	26.4	26.4
IV 10000 9000	14.9	16.6	20.8	25.9	27.1	27.8	28.5	29.2	29.3	29.3	29.3	29.3	29.3	29.4	29.5	29.5
IV 8000 7000	16.2	18.1	22.3	27.4	28.8	29.5	30.2	30.9	31.0	31.0	31.0	31.0	31.0	31.1	31.2	31.2
IV 6000 5000	19.2	21.4	26.2	31.4	32.9	33.6	34.3	35.1	35.2	35.2	35.2	35.2	35.2	35.3	35.4	35.4
IV 4500 4000	23.2	25.6	30.9	37.0	38.8	40.0	40.8	41.6	41.7	41.7	41.7	41.7	41.7	41.9	42.0	42.0
IV 3500 3000	28.3	30.8	37.1	44.6	46.7	48.1	48.9	49.7	49.8	49.8	49.8	49.8	49.8	49.9	50.0	50.0
IV 2500 2000	33.6	36.7	44.1	53.1	55.8	57.8	59.3	60.4	60.5	60.5	60.5	60.5	60.5	60.7	60.7	60.9
IV 1800 1500	39.4	42.9	51.5	63.0	66.5	68.8	70.8	72.1	72.3	72.3	72.3	72.3	72.3	72.4	72.5	72.5
IV 1200 1000	43.0	47.1	57.1	69.9	74.4	76.9	79.1	80.8	81.2	81.2	81.2	81.2	81.2	81.3	81.4	81.4
IV 900 800	43.4	47.6	58.6	72.2	77.3	80.2	83.0	85.1	85.6	85.6	85.6	85.6	85.6	85.7	85.9	85.9
IV 700 600	43.7	47.9	59.3	73.5	79.1	82.5	85.5	87.7	88.2	88.2	88.2	88.2	88.2	88.3	88.5	88.5
IV 500 400	43.7	48.0	60.2	75.5	81.8	86.1	90.5	92.8	93.3	93.3	93.3	93.3	93.3	93.4	93.6	93.6
IV 300 200	43.7	48.0	60.2	75.8	82.4	87.0	92.1	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 100 0	43.7	48.0	60.2	75.8	82.4	87.0	92.5	95.4	97.1	97.9	98.1	98.1	98.1	98.3	98.3	99.3

TOTAL NUMBER OF OBSERVATIONS

884

SKY COVER SUMMARY

The individual increments formerly reported in total sky cover of airways observations are no longer available from the source data from Jan 71 and later. Increments reported after 1970 are clear, scattered, broken, overcast, partial obscuration and obscured (0, 3, 9, or 10). Therefore, the sky cover summary for this station is limited to the period through Dec 70.

PART D

SKY COVER

This summary is prepared from hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean 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 BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SKY COVER

35032 RHEIN-MAIN APT GERMANY/FRA^{ANK}FURT 67-70 ALL
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L S F.)	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	5.9	2.0		2.7	2.7	2.5	3.3		6.0	21.8	53.3	8.3	2976
FEB		12.2	4.4		4.1	3.6	4.0	5.3		8.6	18.3	39.7	7.1	27.2
MAR		11.0	5.2		4.8	6.0	4.5	0.6		8.9	20.2	32.2	6.8	2976
APR		12.3	7.7		6.4	6.4	5.3	0.2		10.5	19.1	24.3	0.3	2880
MAY		4.9	6.9		7.0	7.0	6.1	9.6		13.1	24.2	21.3	6.8	2976
JUN		8.4	9.6		7.1	7.1	7.6	8.5		13.0	20.1	18.0	0.2	2880
JUL		11.5	11.1		8.4	8.9	6.9	8.4		12.0	21.4	11.4	5.6	2976
AUG		9.5	8.6		6.7	8.0	6.6	8.4		12.0	20.7	19.6	6.2	2976
SEP		14.9	8.7		7.3	7.1	5.7	7.0		10.0	18.2	21.1	5.8	2880
OCT		10.1	4.4		4.9	4.2	4.9	4.6		2.8	21.7	36.1	7.2	2976
NOV		9.3	4.4		4.0	4.1	3.0	3.0		6.7	18.9	40.6	7.6	2880
DEC		7.6	2.4		3.4	2.7	2.2	3.1		5.2	20.5	53.0	8.1	2976
TOTALS		9.8	6.3		5.6	5.7	4.9	6.4		9.6	20.4	31.4	0.8	3534

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SKY COVER

35032 RHEIN-MAIN F T GERMANY/FRANKFURT 67-70 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	9.9	1.6		2.4	4.8	2.2	2.7		2.2	12.6	61.6	8.0	372
	03-05	9.4	1.1		2.4	.8	.8	2.7		3.8	15.9	63.2	8.4	372
	06-08	3.8	2.2		2.7	2.2	2.7	2.4		5.6	22.0	56.5	8.5	372
	09-11	3.0	2.2		.6	3.0	2.2	.8		8.6	31.5	48.1	8.7	372
	12-14	1.6	2.2		2.4	2.2	3.8	4.3		8.6	28.0	47.0	8.5	372
	15-17	2.2	2.4		1.9	4.0	4.0	5.6		7.3	28.2	44.4	8.3	372
	18-20	6.7	1.9		4.8	3.2	2.7	4.6		5.4	20.7	50.0	8.0	372
	21-23	10.2	2.4		4.0	1.6	1.9	3.0		6.2	15.1	55.6	7.9	372
TOTALS		3.9	2.0		2.7	2.7	2.5	3.3		6.0	21.8	53.3	8.3	2976

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/R.

SKY COVER

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-70
PERIOD

MAR
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	17.2	5.4		4.8	5.9	3.2	7.5		5.1	15.9	34.9	6.4	372
	03-05	17.7	3.8		3.0	5.1	1.9	4.0		7.2	16.1	40.9	6.8	372
	06-08	5.4	6.5		4.8	5.9	4.6	4.8		7.5	22.8	37.6	7.4	372
	09-11	7.5	5.6		3.5	4.0	4.6	8.3		11.3	20.2	34.9	7.3	372
	12-14	5.6	4.8		3.2	5.4	6.7	8.6		12.6	26.1	26.9	7.3	372
	15-17	5.6	4.6		4.3	10.2	5.9	7.3		13.2	22.8	26.1	7.0	372
	18-20	9.9	5.6		7.5	8.6	7.0	7.0		9.4	19.4	25.5	6.4	372
	21-23	18.8	5.6		7.0	7.8	2.2	5.4		4.8	18.0	30.4	6.1	372
TOTALS		11.0	5.2		4.8	6.6	4.5	6.6		8.9	20.2	32.2	6.8	2976

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

SKY COVER

35032
 STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
 STATION NAME

57-70
 PERIOD

APR
 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
APR	00-02	20.8	9.7		6.7	8.1	3.6	5.0		6.4	13.6	23.6	5.4	360
	03-05	16.7	8.3		5.8	5.0	2.5	5.6		7.2	19.7	29.2	6.2	360
	06-08	12.5	9.2		5.8	4.7	3.6	5.3		7.5	20.6	30.8	6.5	360
	09-11	7.8	8.3		6.4	7.5	5.0	10.3		11.4	17.5	25.3	6.5	360
	12-14	5.8	8.3		4.4	5.0	8.9	11.1		18.1	17.5	20.8	6.6	360
	15-17	6.1	5.8		3.3	5.8	5.0	14.7		14.2	18.6	21.4	6.6	360
	18-20	6.3	5.8		5.6	8.1	7.8	8.9		10.0	23.9	21.7	6.6	360
	21-23	20.0	6.1		8.1	6.7	5.6	4.4		8.9	19.4	20.8	5.7	360
TOTALS		12.3	7.7		6.4	6.4	5.3	8.2		10.5	19.1	24.3	6.3	2880

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SKY COVER

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-70
PERIOD

MAY
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
MAY	00-02	15.1	8.3		9.7	6.2	4.8	5.1		9.1	16.9	24.7	5.9	372
	03-05	6.2	8.3		6.7	8.1	5.9	6.7		7.8	21.2	29.0	6.7	372
	06-08	4.6	8.3		5.4	6.2	5.1	8.1		15.6	22.6	24.2	6.9	372
	09-11	.5	7.8		4.8	6.7	7.8	12.4		16.9	25.3	17.7	7.0	372
	12-14		2.7		5.1	9.4	6.5	12.6		19.6	27.4	16.7	7.3	372
	15-17		5.1		6.5	5.4	6.7	13.2		13.4	31.7	18.0	7.3	372
	18-20	1.6	6.5		5.6	7.0	4.6	11.3		14.8	30.4	18.3	7.2	372
	21-23	11.0	8.1		11.8	7.0	7.3	7.5		7.3	18.3	21.8	5.9	372
TOTALS		4.9	6.9		7.0	7.0	6.1	9.6		13.1	24.2	21.3	6.8	2976

2
4
6
8
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14
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32
34
36

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SKY COVER

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-70 Jul
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
JUL	00-02	30.6	8.1		9.7	9.7	5.4	6.5		9.1	9.9	11.0	4.1	372
	03-05	12.1	12.9		8.1	7.3	4.6	7.8		10.5	23.7	13.2	5.6	372
	06-08	11.6	12.1		7.5	6.2	4.8	7.0		9.1	25.0	16.7	5.9	372
	09-11	8.6	12.6		5.4	9.1	6.5	6.7		12.7	23.9	14.2	6.0	372
	12-14	3.2	9.9		5.6	9.4	10.8	11.3		16.1	24.2	9.4	6.3	372
	15-17	4.3	8.3		11.3	8.9	10.2	10.2		14.5	24.5	7.8	6.0	372
	18-20	4.6	13.4		7.5	9.7	7.3	12.9		13.2	23.7	7.8	5.8	372
	21-23	16.7	11.8		12.1	10.5	5.9	5.1		10.6	15.9	11.3	4.9	372
TOTALS		11.5	11.1		8.4	8.9	6.9	8.4		12.0	21.4	11.4	5.6	2976

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SKY COVER

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 87-70 AUG
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
AUG	00-02	24.7	7.5		6.5	5.0	8.9	4.0		7.0	11.6	23.4	5.2	372
	03-05	14.0	10.2		10.2	7.3	4.0	5.4		8.0	17.2	23.1	5.8	372
	06-08	8.9	11.8		5.1	4.8	4.6	5.1		11.2	27.2	26.7	6.5	372
	09-11	5.4	7.3		7.3	7.5	7.8	11.3		13.2	22.8	17.5	6.5	372
	12-14	.3	8.6		6.2	5.4	9.9	14.0		13.5	27.4	10.8	6.6	372
	15-17	.5	12.4		4.8	9.9	5.1	11.0		17.7	21.2	17.2	6.6	372
	18-20	4.8	5.1		6.2	8.6	7.0	9.7		15.3	22.6	20.7	6.8	372
	21-23	17.2	5.6		7.0	10.8	5.4	5.9		8.6	15.9	23.7	5.8	372
	TOTALS	9.5	8.6		6.7	8.0	6.6	8.4		12.0	20.7	19.6	6.2	2976

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E PSYCHROMETRIC SUMMARIES

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

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

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

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

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

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

Continued on Reverse

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

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

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

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

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

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

STATION 35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100							.2						.0
95						.5	2.9	.6					.3
90						3.4	6.7	4.3	1.5				1.3
85				.2	1.2	9.9	17.4	11.7	4.0				3.7
80				1.3	8.5	21.4	33.0	23.9	9.1	.1			8.1
75				5.9	20.9	41.4	52.6	44.5	22.8	1.8			15.7
70			.9	14.0	36.7	62.8	75.3	71.8	41.7	6.9			25.8
65			5.2	26.9	56.7	84.0	92.9	92.8	69.7	19.7			37.2
60	.2	1.4	16.0	46.4	79.1	95.0	99.2	99.4	89.5	40.3	1.4	.3	47.3
55	.8	5.4	30.8	66.5	94.4	99.5	100.0	100.0	98.3	67.2	8.1	1.3	56.0
50	5.4	15.7	54.2	86.6	99.1	100.0			99.8	84.1	29.2	6.9	65.1
45	17.5	32.3	70.9	96.7	99.3				100.0	95.9	55.6	22.2	74.3
40	38.1	52.1	85.2	99.3	100.0					99.3	78.2	46.5	83.3
35	63.9	73.6	96.8	100.0						100.0	94.8	72.4	91.8
30	81.9	89.3	99.7								99.7	88.1	96.6
25	92.6	95.4	100.0								100.0	95.3	98.6
20	98.5	98.5										99.0	99.7
15	99.8	99.5										99.9	99.9
10	100.0	99.7										100.0	100.0
5		100.0											100.0
MEAN	36.9	40.1	49.9	59.1	66.8	72.8	76.0	74.4	68.9	57.7	45.4	38.5	57.2
S. D.	7.932	9.111	9.015	9.065	8.389	8.610	8.538	7.543	7.843	7.843	6.723	7.707	16.257
TOTAL OBS.	646	591	649	629	645	626	645	649	657	680	657	680	7754

USAF ETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH

USAF PAC

AIR WEATHER SERVICE/PAC

35322 3-III-MAIN APT GERMANY/FRANKFURT 57-67

STATION

STATION NAME

FARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85							.3						.0
80						.8	2.9	.8					.4
75					.2	3.8	10.4	5.2	.9				1.7
70				.2	2.5	13.1	27.3	18.6	4.6				5.5
65				1.6	12.9	36.2	52.4	46.5	20.0	.6			14.1
60			.2	7.8	32.0	69.3	85.9	81.4	48.6	6.3			27.5
55	.2	.5	2.9	23.4	60.6	91.9	98.3	98.3	79.3	25.1	.9	.1	40.7
50	.6	2.5	13.9	50.1	85.9	98.6	100.0	100.0	96.9	52.8	7.3	1.2	50.8
45	5.6	10.5	39.6	76.2	96.9	99.8			99.7	78.7	30.5	8.7	62.3
40	19.2	28.9	62.7	93.6	99.8	100.0			100.0	93.8	58.4	26.4	73.7
35	43.8	53.8	79.2	99.5	100.0					99.3	82.8	54.6	84.5
30	67.8	73.1	93.7	100.0						100.0	95.7	76.9	92.3
25	83.6	85.6	99.1								99.3	89.2	96.5
20	91.6	94.2	100.0								100.0	95.1	98.4
15	96.7	97.0										98.5	99.4
10	99.7	99.3										99.7	99.9
5	100.0	99.8										100.0	100.0
0		100.0											100.0
MEAN	32.5	34.3	41.6	49.5	56.6	62.7	69.4	64.5	59.5	49.8	40.8	34.6	49.4
S.D	3.267	3.950	7.444	6.698	6.539	6.205	6.280	5.548	5.920	6.530	6.306	7.958	13.743
TOTAL O'S	546	591	649	629	644	624	649	649	656	680	636	679	7750

DATA PROCESSING BRANCH
USAF LTAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

ALL MONTH

PAGE 1

ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11	12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
100/ 99																				1	1					
96/ 95														.0	.0	.0	.0	.0	.0	14	14					
94/ 93													.0	.0	.0	.0	.0	.0	.0	12	12					
92/ 91													.0	.0	.0	.0	.0	.0	.0	32	32					
90/ 89										.0	.0	.0	.0	.0	.0	.0	.0	.0	74	74						
88/ 87										.0	.0	.0	.0	.0	.0	.0	.0	.0	99	99						
86/ 85						.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	256	256						
84/ 83					.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	226	226						
82/ 81					.0	.0	.1	.1	.1	.1	.1	.1	.0	.0					358	358						
80/ 79				.0	.0	.1	.1	.2	.1	.1	.1	.0	.0						402	402						
78/ 77				.0	.1	.1	.3	.3	.3	.1	.0	.0	.0						742	744						
76/ 75			.0	.0	.1	.1	.2	.3	.2	.1	.0	.0							641	641	4					
74/ 73		.0	.0	.1	.1	.3	.3	.3	.1	.1	.0	.0							763	763	20					
72/ 71		.0	.1	.1	.4	.3	.3	.2	.1	.0	.0								972	972	106	4				
70/ 69		.0	.2	.2	.5	.4	.3	.2	.1	.0	.0	.0							1171	1171	290	14				
68/ 67	.0	.1	.4	.6	.5	.8	.4	.2	.1	.0	.0								1963	1964	668	96				
66/ 65	.1	.3	.6	.5	.5	.4	.3	.1	.1	.0	.0								1712	1712	1157	269				
64/ 63	.2	.7	.8	.8	.6	.5	.3	.1	.0	.0									2414	2414	1940	759				
62/ 61	.2	.8	.7	.7	.6	.2	.2	.1	.0										2092	2092	2394	899				
60/ 59	.4	1.4	1.1	1.1	.6	.5	.1	.1	.0										3194	3194	2713	2180				
58/ 57	.3	1.1	1.0	.7	.5	.2	.1	.0	.0										2354	2354	3067	2153				
56/ 55	.4	1.2	.9	.7	.4	.2	.1	.0	.0										2351	2351	3200	2369				
54/ 53	.4	1.3	1.1	.6	.3	.1	.0	.0	.0										2708	2209	3317	2432				
52/ 51	.3	1.4	1.2	.4	.2	.1	.0												2226	2226	2781	3079				
50/ 49	.5	1.9	1.9	.7	.4	.2	.0	.0	.0										3283	3283	3204	4059				
48/ 47	.3	1.7	1.3	.4	.3	.1	.0	.0											2514	2514	3010	3024				
46/ 45	.6	2.7	1.1	.6	.3	.1	.0	.0											3222	3222	3064	3517				
44/ 43	.6	2.7	.9	.5	.1	.0	.0												2943	2944	3426	3004				
42/ 41	.9	4.0	1.8	.4	.1	.0	.0												4327	4327	3299	4330				
40/ 39	.8	2.5	1.2	.2	.0	.0													2855	2855	3821	3904				
38/ 37	1.0	2.5	.8	.2	.0	.0													2733	2734	3770	3415				
36/ 35	.6	2.8	.7	.1	.0														2488	2488	2961	2765				
34/ 33	1.1	2.0	.5	.1	.0														2209	2209	3376	3621				
32/ 31	1.3	2.3	.3	.1	.0														2388	2390	2542	3939				
Element (X)	Z _x	Z _y	Z _z	Z _w	Z _v	Z _u	Z _t	Z _s	Z _r	Z _q	Z _p	Z _o	Z _n	Z _m	Z _l	Z _k	Z _j	Z _i	Z _h	Z _g	Z _f	Z _e	Z _d	Z _c	Z _b	Z _a
Rel. Hum.																										
Dry Bulb																										
Wet Bulb																										
Dew Point																										
No. Obs.																										
Mean No. of Hours with Temperature																										
	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																			

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION STATION NAME YEARS

ALL
MONTH

PAGE 2

ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
30/ 29	.6	1.3	.2	.0														1229	1229	1776	2541	
28/ 27	1.0	.8	.1	.0														1125	1127	1266	2346	
25/ 25	.4	.4	.0															503	503	682	1423	
24/ 23	.3	.5	.0															487	488	455	1075	
22/ 21	.2	.2	.0															248	249	401	536	
20/ 19	.1	.2	.0															212	212	247	485	
18/ 17	.2	.2	.0															195	195	246	368	
16/ 15	.1	.1																125	125	140	345	
14/ 13	.1	.1																111	111	122	314	
12/ 11	.1	.0																55	56	61	153	
10/ 9	.1	.0																47	47	48	152	
8/ 7	.0	.0																24	24	23	67	
6/ 5	.0																	13	13	14	64	
4/ 3	.0																	3	3	3	10	
2/ 1	.0																	1	1	1	5	
0/ -1	.0																	1	1	1	1	
-2/ -3	.0																	1	1	1	2	
-4/ -5	.0																	1	1	1	1	
-6/ -7	.0																	1	1	1	1	
-8/ -9	.0																	1	1	1	1	
TOTAL	13.2	37.5	18.9	10.0	6.8	4.7	3.3	2.3	1.4	.9	.4	.3	.1	.1	.1	.0	.0	59634		59621	2	
																		59621		59621		
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No.			Hours with Temperature													
Rel. Hum.	372214372	4592126	77.017625	59621	± 0 F	± 32 F	± 67 F	73 F	80 F	93 F	Total											
Dry Bulb	158079227	2949121	49.514323	59634	.6	986.3	147.3	3.6	181.8	4.0	8760											
Wet Bulb	131478394	2712410	45.511641	59621	.6	169.2	162.5	3.6			8760											
Dew Point	111012924	2481924	41.611360	59621	.7	2014.7	17.0				8760											

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JAN
MONTH

PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	1 FT BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-	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			.0																1	1															
54/ 53		.1	.1	.0															14	14															
52/ 51		.3	.1	.1			.0												24	24	15														
50/ 48	.2	1.3	1.3	.1	.0														140	148	41	39													
48/ 47	.2	1.5	1.4	.1															165	165	103	43													
46/ 45	.3	3.1	1.3	.4	.0														266	266	171	89													
44/ 43	.6	4.2	1.5	.3															333	333	287	153													
42/ 41	1.1	8.5	2.3	.1		.0													613	613	369	336													
40/ 39	1.5	5.1	1.6	.2	.0														434	434	580	454													
38/ 37	2.0	4.4	.9	.2															379	379	507	491													
36/ 35	1.2	6.1	1.1	.0															429	429	400	346													
34/ 33	2.9	5.6	.7	.0															472	472	614	492													
32/ 31	4.6	7.2	.2																616	616	627	693													
30/ 29	1.9	3.6	.1	.0															288	288	414	472													
28/ 27	2.6	1.7	.1																227	228	218	455													
26/ 25	.8	1.0	.1																95	95	107	231													
24/ 23	.8	1.4	.1																114	114	106	109													
22/ 21	.6	1.2	.0																94	94	107	81													
20/ 19	.6	1.4	.0																107	107	111	87													
18/ 17	.7	.9	.0																83	33	107	89													
16/ 15	1.0	.5																	74	74	92	123													
14/ 13	.7	.5																	61	61	67	126													
12/ 11	.4	.1																	25	25	29	64													
10/ 9	.4	.1																	22	22	22	57													
8/ 7	.2	.0																	13	13	12	32													
6/ 5	.1																		4	4	5	35													
4/ 3																						3													
2/ 1	.0																		1	1	1	1													
0/ -1	.0																		1	1	1														
-2/ -3	.0																		1	1	1	2													
-4/ -5	.0																		1	1	1	1													
-6/ -7	.0																		1	1	1														
-8/ -9																						2													
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\geq 80 F$	$\geq 93 F$	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

JAN MONTH

PAGE 2

ALL HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24	25-26	27	28	29-30	≥31	D.B. WB	Dry Bulb	Wet Bulb	Dew Point	
TOTAL	25.4	59.9	13.0	1.6	.1	.0	.0													5106	5107	5106	5106	

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

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 71 F	≥ 80 F	≥ 93 F	
Rel. Hum.	39162798	444606	87.1	9.375	5106							
Dry Bulb	6660441	179087	35.1	8.631	5107	.6	266.5					744
Wet Bulb	6150689	172239	33.7	8.168	5106	.6	294.2					744
Dew Point	5457597	160905	31.5	8.707	5106	.7	388.0					744

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	.2	3-4	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	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
60/ 59							.0											1	1																
58/ 57					.1	.1												10	10																
56/ 55					.0	.0												3	3																
54/ 53				.1	.0													4	4																
52/ 51		.0	.2	.3	.1	.0	.0											30	30																
50/ 49		.1	.8	.6	.2	.1	.0	.0										91	91	14															
48/ 47		.0	.8	.4	.3	.0	.1											112	112	43	5														
45/ 45	.1	1.4	1.3	1.2	.4	.1												212	212	89	40														
44/ 43	.1	2.3	1.8	1.1	.4													268	268	161	52														
42/ 41	.6	5.4	4.9	1.5	.3	.0												592	592	262	145														
40/ 39	1.0	5.7	3.6	.4	.1	.0												528	528	473	277														
38/ 37	2.1	6.2	3.2	.9	.1	.0												613	614	708	390														
36/ 35	1.1	7.0	2.9	.2	.1													527	527	629	427														
34/ 33	2.2	4.8	.6	.1														408	408	712	589														
32/ 31	2.1	6.3	.1	.1														449	451	487	684														
30/ 29	1.3	4.0		.0														274	274	403	527														
28/ 27	2.8	2.3	.3															252	252	306	506														
26/ 25	1.4	1.2	.1															129	129	164	358														
24/ 23	.8	1.0	.0															88	88	97	305														
22/ 21	.3	.2																23	23	57	120														
20/ 19	.1	.2																13	13	16	81														
18/ 17	.0	.2																11	11	13	54														
16/ 15	.1	.1																9	9	11	38														
14/ 13	.0	.0																3	3	5	29														
12/ 11	.1	.0																6	6	5	8														
10/ 9	.1	.1																11	11	12	19														
8/ 7																					4														
6/ 5																					9														
4/ 3	.0																	1	1	1															
2/ 1																					1														
TOTAL	16.4	9.9	23.4	7.5	2.1	.5	.1	.0										4668	4671	4668	4668														
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Min No. of Hours with Temperature					Total																								
Rel. Hum.	31667604	379720	81.3	12.921	4668	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	6414398	170354	36.5	6.569	4671		182.9					672																							
Wet Bulb	5659914	160304	34.3	5.761	4668		227.0					672																							
Dew Point	4669574	144644	31.0	6.340	4668		394.9					672																							

USAF ETAC FORM 0-20-5 (GL A) REVISD METHOD EDIION OF FYI FORM AIR CECLETTE
 JUL 64

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR
MONTH

PAGE 1

ALL
HOURS C. 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																			
76/ 75										.0																								1	1					
74/ 73										.0																								1	1					
72/ 71										.0																								1	1					
70/ 69										.0																								2	2					
68/ 67								.0	.0	.1	.1	.1																						16	16					
66/ 65						.1	.0	.1	.1	.1	.1																							27	27					
64/ 63					.0	.3	.2	.3	.1																									44	44					
62/ 61				.1	.2	.1	.2	.0																										32	32					
60/ 59			.0	.5	.2	.4	.2	.1																										70	70					
58/ 57		.0	.1	.2	.4	.3	.2																											61	61	7				
56/ 55		.1	.1	.4	.6	.4	.1																											83	83	25				
54/ 53		.2	.4	.5	.7	.3		.0																										106	106	63	3			
52/ 51		.3	.8	.9	.5	.3	.1																											152	152	72	8			
50/ 49	.1	.6	2.3	2.0	1.2	.6	.0	.0																										341	341	156	50			
48/ 47	.1	1.2	2.4	1.9	1.1	.4	.1	.1																										333	333	209	70			
46/ 45	.3	3.0	2.6	1.6	1.1	.3	.0	.0																										452	452	333	133			
44/ 43	.3	3.6	2.2	1.4	.8	.2	.1																											440	440	444	204			
42/ 41	.5	5.7	3.8	1.4	.6	.1	.0																											618	618	510	388			
40/ 39	.7	3.4	2.7	1.1	.3	.1	.0																											422	422	553	462			
38/ 37	1.0	3.3	2.4	.7	.2	.1																												389	389	571	492			
36/ 35	.7	3.9	2.0	.5	.1																													373	373	456	412			
34/ 33	1.1	2.5	1.5	.4	.0																													281	281	534	516			
32/ 31	.8	3.4	1.4	.5	.0																													315	315	330	528			
30/ 29	.6	1.9	.8	.0																														172	172	291	376			
28/ 27	1.0	1.4	.3																															134	134	211	420			
26/ 25	.4	.9	.2																															77	77	124	289			
24/ 23	.1	.9	.3																															63	63	61	205			
22/ 21	.2	.5	.1																															35	35	59	124			
20/ 19	.0	.3	.0																															15	15	38	115			
18/ 17	.1	.4																																23	23	23	90			
16/ 15	.2	.1																																14	14	21	58			
14/ 13	.0	.0																																4	4	6	71			
12/ 11	.1	.0																																5	6	5	39			
10/ 9	.0	.0																																2	2	2	28			
Element (X)	Z _X ²	Z _X	X	σ _X	No. Obs.		Mean No. of Hours with Temperature																																	
Rel. Hum.					≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	80 F	≥ 93 F	Total																													
Dry Bulb																																								
Wet Bulb																																								
Dew Point																																								

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR
 MONTH

PAGE 1 ALL

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. M.B.	Dry Bulb	Wet Bulb	Dew Point													
84/ 83												.0								1	1														
82/ 81								.1	.0	.0										6	6														
80/ 79							.0	.1												4	4														
78/ 77									.1	.0										6	7														
76/ 75								.1	.0	.1										9	9														
74/ 73							.0	.1	.1	.0	.0									13	13														
72/ 71							.0	.2	.1	.1	.1	.1								26	26														
70/ 69						.0	.0	.2	.4	.3	.1	.0								48	48														
68/ 67					.0	.0	.2	.6	.4	.3	.1									83	83														
66/ 65					.0	.0	.4	.5	.5		.0									72	72	5													
64/ 63				.1	.1	.5	.6	.4	.3	.1										97	97	5													
62/ 61			.0	.2	.4	.6	.7	.4	.1											113	113	2													
60/ 59		.0	.1	.4	.9	1.6	.9	.4												210	210	16													
58/ 57		.1	.4	.6	1.3	.9	.5	.2	.0											196	196	22	1												
56/ 55		.3	.8	1.0	1.3	1.0	.4	.2	.0											241	241	86	5												
54/ 53	.1	.8	1.0	1.1	1.5	.6	.3	.1	.0											270	270	198	22												
52/ 51	.1	.9	2.1	1.3	1.1	.3	.2													293	293	288	62												
50/ 49	.3	1.6	3.3	2.6	1.6	1.1	.3	.0												533	533	436	139												
48/ 47	.2	1.8	2.7	1.4	1.4	.4	.1													396	396	476	163												
46/ 45	.5	2.9	2.8	1.8	1.3	.4	.1													483	483	499	320												
44/ 43	.3	2.6	1.7	1.7	.6	.2	.0													343	344	511	302												
42/ 41	.4	4.0	3.6	1.5	.6	.0														494	494	485	528												
40/ 39	.5	2.6	2.2	.4																279	279	502	501												
38/ 37	.8	2.5	1.1	.3																230	230	515	568												
36/ 35	.2	1.8	.7	.1																137	137	324	398												
34/ 33	.3	1.2	.5	.1																102	102	218	475												
32/ 31	.5	1.4	.2																	100	100	138	456												
30/ 29	.3	.6	.0																	46	46	82	314												
28/ 27	.7	.3	.0																	46	46	61	282												
26/ 25	.2	.0																		12	12	19	153												
24/ 23	.0																			2	2	3	116												
22/ 21																							38												
20/ 19																							24												
16/ 17																							14												
Element (F)	Σx'		Σx		Y	Σx	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																																			

FORM 0-26-5 (OL A) REVIS 11-64
 USAFETAC JUL 64
 REVERSE SIDE OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR
MONTH

STATION

STATION NAME

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PAGE 2

ALL
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL			TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point				
16/ 15																					7				
14/ 13																					3				
TOTAL	5.4	25.3	23.2	14.5	12.1	7.7	4.7	3.1	2.1	1.0	.4	.2						4891	4893	4891	4891				
Element (X)	Z _x ²	Z _x			Z _x				Z _x				Z _x				No. Obs.	Mean No. of Hours with Temperature							
Rel. Hum.	24324820	332256			67.9				18.939				4891					≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb	11721358	235068			48.0				9.357				4893						30.3	29.0	5.9	1.0			720
Wet Bulb	9182249	209409			42.8				6.652				4891						44.6						720
Dew Point	6850589	179809			36.8				7.009				4891						207.1						720

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAY

STATION

STATION NAME

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MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. WB	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				
86/ 85													.0	.1							6	6		
84/ 83									.0	.1	.0	.1	.1	.0	.1						16	16		
82/ 81									.0	.1	.1	.1	.0	.0							22	22		
80/ 79							.0	.1	.3	.3	.2	.1									29	29		
78/ 77						.0	.1	.3	.3	.3	.2										56	56		
76/ 75						.0	.1	.3	.3	.2	.1										56	56		
74/ 73					.0	.1	.3	.7	.2	.1											74	74		
72/ 71					.2	.3	.6	.7	.3	.1											113	113		
70/ 69				.1	.3	.5	.5	.7	.3	.1											127	127	1	
68/ 67		.0	.1	.5	.4	1.3	1.4	.9	.3	.1											244	245	9	
66/ 65		.0	.3	.5	.7	1.2	1.0	.5	.3												230	230	19	1
64/ 63		.3	.5	.9	1.6	1.4	.9	.3	.2												310	310	74	1
62/ 61	.1	.5	.7	1.2	1.7	.9	.6	.3													300	300	162	21
60/ 59	.3	1.3	1.6	2.6	1.8	1.4	.5	.3	.0												498	498	300	95
58/ 57	.3	1.4	1.5	1.7	1.2	.8	.4														367	367	399	114
56/ 55	.7	2.3	1.9	2.1	1.0	.5	.3														437	437	536	212
54/ 53	.9	2.2	2.5	1.7	.7	.3															415	415	648	287
52/ 51	.6	3.0	2.7	1.0	.4	.1	.0														391	391	534	384
50/ 49	.7	2.8	3.6	1.1	.7	.0															445	445	655	682
48/ 47	.4	2.4	1.4	.5	.2																249	249	529	592
46/ 45	.5	2.9	.8	.4																	231	231	425	650
44/ 43	.4	2.0	.6	.2																	162	162	293	478
42/ 41	.5	1.8	.5	.2																	150	150	185	568
40/ 39	.2	.6	.1																		48	48	136	335
38/ 37	.1	.4	.0																		23	23	69	163
36/ 35	.0	.3																			18	18	33	151
34/ 33	.1	.2																			16	16	23	155
32/ 31	.1	.1																			7	7	9	103
30/ 29		.0																			2	2	3	31
28/ 27	.0																				1	1	1	19
26/ 25																								1
TOTAL	5.9	24.3	18.7	14.7	10.8	9.0	6.7	5.0	2.2	1.3	.7	.2	.1	.1							5043	5044	5043	5043
Element (X)	Zx1	Zx2	Zx3	Zx4	Zx5	No. Obs.	Mean No. of Hours with Temperature						Total											
Rel. Hum:	26489492	352576	69.9	19.101	5043	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	16622655	285853	56.7	9.157	5044		1.5	109.7	38.2	7.8		744												
Wet Bulb	13281764	256910	50.9	6.199	5043		1.9	1.5				744												
Dew Point	10799772	231050	45.8	6.515	5043		22.7					744												

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

DATA PROCESSING BRANCH
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35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

JUN
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B.W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb
94/ 93															.0		1	1		
92/ 91														.1	.1		12	12		
90/ 89											.1	.0	.0	.3	.1		25	25		
88/ 87									.0	.0	.0	.2					14	14		
86/ 85								.1	.1	.0	.2	.1	.0				30	30		
84/ 83								.1	.1	.2	.2	.1					36	36		
82/ 81						.0	.3	.2	.2	.5	.1	.1					68	68		
80/ 79					.0	.3	.3	.4	.4	.2	.1	.0					87	87		
78/ 77			.0	.1	.2	.5	.8	1.0	.4	.2	.0						160	160		
76/ 75			.1	.1	.2	.7	.8	.6	.1	.1	.0						130	130		
74/ 73		.1	.1	.2	.7	.9	.8	.1	.4	.0	.0						168	168		
72/ 71		.1	.2	.8	.9	.9	.7	.2	.1								180	180	4	
70/ 69	.0	.2	.2	.4	1.3	1.3	.5	.6	.2								234	234	30	2
68/ 67	.0	.2	.6	1.2	1.6	1.8	1.1	.4	.1								342	342	37	15
66/ 65	.1	.3	1.4	1.6	1.3	.9	.9	.2									330	330	161	29
64/ 63	.1	1.2	1.7	2.2	1.5	1.2	.7	.0									422	422	359	66
62/ 61	.2	1.6	1.7	1.9	1.1	.5	.3										353	353	525	108
60/ 59	.5	2.7	2.4	2.6	1.4	.8	.1	.0									516	516	541	315
58/ 57	.6	2.4	2.3	1.4	1.2	.2	.1										400	400	592	385
56/ 55	.8	2.2	2.0	1.4	.4	.1											338	338	600	465
54/ 53	.4	2.6	2.1	.9	.2												304	304	555	478
52/ 51	.4	2.5	1.7	.3	.0												242	242	445	584
50/ 49	.7	2.4	1.5	.2													234	234	431	777
48/ 47	.2	1.5	.5	.0													108	108	262	454
46/ 45	.3	1.3	.1														84	84	169	439
44/ 43	.2	.6	.1														40	40	81	328
42/ 41	.2	.1															16	16	28	279
40/ 39	.1	.1															9	9	10	104
38/ 37	.1	.0															6	6	9	45
36/ 35	.0	.0															2	2		8
34/ 33	.0																1	1	3	7
32/ 31																				3
30/ 29																				1
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total								
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total								
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 14 JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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ALL
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
TOTAL	5.0	21.9	18.4	14.7	11.1	8.7	6.8	4.9	3.2	1.9	1.3	.8	.6	.4	.3			4892	4892	4892	4892	
Element (X)	Σx^2	Σx	\bar{x}	σ_x	Na. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.	25349462	339358	69.4	19.228	4892	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	720										
Dry Bulb	19374652	304360	62.2	9.470	4892			218.9	107.6	31.9	.1	720										
Wet Bulb	15394991	272927	55.8	5.865	4892			17.8				720										
Dew Point	12806827	248597	50.8	5.957	4892			.6	2.5			720										

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

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DATA PROCESSING BRANCH
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35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL												
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D B. W.B.	Dry Bulb	Wet Bulb	Dew Point											
100/ 99																																
96/ 95													.0	.1	.0	.0	.1		11	11												
94/ 93													.0	.0	.0	.1	.0		9	9												
92/ 91												.1	.0	.0	.1	.1			16	16												
90/ 89									.0	.0	.1	.2	.1	.2	.1	.0			34	34												
88/ 87									.2	.3	.1	.1	.1	.0					44	44												
86/ 85						.0	.1	.2	.4	.7	.3	.2	.1	.1	.1	.1			106	106												
84/ 83					.0	.1	.2	.2	.5	.3	.3	.0	.1	.0					84	84												
82/ 81					.0	.1	.5	.9	.5	.6	.3	.0	.0						147	147												
80/ 79				.0	.1	.3	.3	1.0	.8	.1	.1	.0	.0						135	135												
78/ 77				.0	.2	.5	1.2	1.3	.9	.2	.0	.0							217	217												
76/ 75			.1	.3	.4	.8	1.4	.9	.2	.1	.0	.0							202	202	4											
74/ 73		.1	.1	.5	.6	1.5	.6	.8	.2	.1									214	214	17											
72/ 71		.0	.3	.7	1.8	.8	1.0	.8	.3	.0									278	278	67	4										
70/ 69		.2	.7	.8	1.8	.9	1.0	.3	.1										280	280	147	12										
68/ 67	.1	.7	1.5	2.4	1.6	2.2	1.0	.3	.1										485	485	254	55										
66/ 65	.2	1.3	2.1	1.6	1.3	.8	.4	.1											385	385	419	109										
64/ 63	.5	2.5	2.3	2.2	1.0	.9	.2	.0											480	480	644	257										
62/ 61	.8	2.6	1.9	1.5	1.0	.1	.1												394	394	639	314										
60/ 59	1.1	4.0	2.4	1.9	.7	.1		.0											501	501	639	710										
58/ 57	.3	2.1	2.0	.8	.2		.1												279	279	347	583										
56/ 55	.6	2.4	1.4	.5	.1														244	244	519	525										
54/ 53	.5	1.7	1.1	.5															167	167	427	530										
52/ 51	.1	1.2	.4																88	88	243	551										
50/ 49	.1	1.2	.1																71	71	160	528										
48/ 47	.1	.3	.0																22	22	59	329										
46/ 45	.1	.2																	16	16	17	224										
44/ 43																					8	83										
42/ 41	.0	.1																	4	4	3	55										
40/ 39																					1	21										
38/ 37																						7										
35/ 35																						7										
34/ 33																						10										
Element (X)	ΣX^2				ΣX				ΣX				ΣX				No. Obs.				Mean No. of Hours with Temperature											
Rel. Hum.																																
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 BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG
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ALL
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
96/ 95													.0	.0				3	3																
94/ 93													.0		.0			2	2																
92/ 91													.0	.0				4	4																
90/ 89											.0	.1	.1	.0				14	14																
88/ 87									.0	.1	.2	.4	.1					37	37																
86/ 85							.0	.2	.4	.6	.3	.4	.0	.0				97	97																
84/ 83						.0	.1	.2	.3	.6	.2	.1	.1					78	78																
82/ 81					.0	.4	.5	.4	.3	.4	.1	.1						107	107																
80/ 79				.0	.2	.2	.7	.6	.5	.1	.1	.0						128	128																
78/ 77				.3	.5	1.2	.8	1.1	.6	.1	.1	.0						238	238																
76/ 75			.0	.1	.4	.6	1.1	.7	.6	.2	.0	.0						188	188																
74/ 73			.0	.5	.6	1.1	.7	.9	.1	.2	.0	.0						215	215	3															
72/ 71			.4	.6	1.7	.7	1.2	.5	.1	.2								269	269	37															
70/ 69		.2	1.0	.7	1.4	1.2	.9	.4	.1									294	294	102															
68/ 67	.0	.7	1.8	2.2	1.4	2.4	.8	.2	.0	.0								484	484	250	26														
66/ 65	.3	1.2	1.8	1.2	1.4	.9	.3	.1										374	374	434	117														
64/ 63	1.4	3.3	2.3	2.1	1.6	.6	.2	.0										580	580	631	365														
62/ 61	.9	2.6	1.9	1.7	1.0	.1	.0	.0										415	415	661	314														
60/ 59	1.6	4.4	2.9	2.1	.5	.2												591	591	702	651														
58/ 57	.8	3.0	1.9	.9	.2	.0												348	348	736	598														
56/ 55	.5	2.2	.9	.4	.1													205	205	609	535														
54/ 53	.3	2.1	.7	.2	.0													174	174	417	483														
52/ 51	.3	1.4	.3	.1														104	104	232	675														
50/ 49	.3	.8	.1	.1														64	64	142	623														
48/ 47	.1	.4	.0															24	24	66	306														
46/ 45	.1	.1																12	12	26	177														
44/ 43	.1																	7	7	8	78														
42/ 41	.0																	2	2	2	71														
40/ 39																					23														
38/ 37																					10														
34/ 33																					5														
32/ 31																					1														
TOTAL	6.8	22.3	16.1	12.5	10.7	8.7	7.3	5.2	3.7	3.1	1.3	1.3	.4	.1	.1			5058	5058	5058	5058														
Element (X)	Z _x ²	Z _x	X	S _x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	26919490	355460	70.3	19.581	5058	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	22312375	339033	65.8	8.720	5058			317.4	163.4	57.2	.7	744																							
Wet Bulb	17915026	299900	59.3	5.134	5058			57.7	.4			744																							
Dew Point	15271875	276449	54.7	5.666	5058			.1	3.8			744																							

USAFETAC FORM 44 JUL 64 0-26-5 (OL A) REVISED WITHOUT NOTICE OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. J. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL DB. WB	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	
90/ 89														.0				1	1			
88/ 87																		4	4			
86/ 85										.0	.2	.1	.1					17	17			
84/ 83									.1	.1	.0	.0						11	11			
82/ 81								.0	.1	.0								8	8			
80/ 79						.1	.1	.2	.0	.0								19	19			
78/ 77				.1	.3	.6	.1	.1	.0									65	65			
76/ 75			.1	.4	.3	.2	.1	.0										53	53			
74/ 73			.1	.2	.4	.6	.2	.0	.0									75	75			
72/ 71		.1	.2	.7	.4	.4	.2	.1	.0									101	101			
70/ 69		.2	.5	1.3	.6	.3	.3	.1										162	162	10		
68/ 67	.0	.6	1.3	1.2	1.0	.6	.4	.0										257	257	68		
66/ 65	.1	.4	1.1	1.1	.9	.6	.6	.2	.0									242	242	119	13	
64/ 63	.2	1.4	2.1	1.3	1.0	1.2	.4	.1										375	375	212	70	
62/ 61	.5	2.5	1.6	1.5	1.0	.5	.2											379	379	371	141	
60/ 59	.9	3.8	2.6	2.5	1.2	.8	.0	.0	.0									579	579	430	383	
58/ 57	.8	3.0	2.4	1.5	.9	.1	.1	.0										434	434	481	397	
56/ 55	1.2	3.4	2.3	1.5	.4	.0												431	431	581	432	
54/ 53	1.5	3.4	2.1	.8	.1	.0												384	384	654	445	
52/ 51	1.7	3.4	2.0	.2	.0													357	357	525	540	
50/ 49	1.1	3.9	1.5	.1	.1													324	324	512	655	
48/ 47	.7	2.5	.6	.0	.0													187	187	340	459	
46/ 45	1.1	2.0	.1	.0														156	156	225	488	
44/ 43	.8	1.2	.0															100	100	155	329	
42/ 41	1.2	1.0	.0															109	109	118	342	
40/ 39	.3	.2	.0															25	25	44	109	
38/ 37	.3	.1																20	20	26	37	
36/ 35	.1	.1																9	9	12	18	
34/ 33	.0																	2	2	3	21	
32/ 31																					4	
30/ 29																					2	
28/ 27																					1	
TOTAL	12.6	32.1	19.2	12.7	9.2	6.4	4.1	2.1	.7	.4	.1	.2	.0					4886	4886	4886	4886	
Element (X)	Z _x	Z _x	Z _x	Z _x	No. Obs.	Mean No. of Hours with Temperature																
Rel. Hum.	31412897	383151	78.4	16.728	4886	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb	16809912	283932	58.0	8.540	4886			113.9	37.3	7.4		720										
Wet Bulb	14400172	263485	53.9	6.262	4886			11.5				720										
Dew Point	12718741	247441	50.0	6.197	4786			1.0				720										

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

3
2
1

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS OCT MONTH

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
78/77							.0																										2	2				
76/75							.0																										3	3				
74/73							.0																										4	4				
72/71					.1		.0																															
70/69				.0	.2		.1		.0		.0		.0																						24	24		
68/67				.2	.2		.5		.1		.1																								52	52		
66/65			.1	.3	.4		.1		.1		.1																								52	52		
64/63		.1	.6	.6	.4		.3		.1		.1																								102	102		
62/61		.3	.6	.6	.4		.1		.1		.1																								104	104		
60/59		1.2	1.1	1.0	.5		.4		.0		.0																								212	212		
58/57	.1	1.3	1.1	1.1	.6		.2		.2		.0																								234	234		
56/55	1.0	1.9	1.2	.8	.6		.4		.0		.0																								302	302		
54/53	.7	1.9	1.7	.8	.3		.2		.0		.0																								282	282		
52/51	1.0	3.0	2.5	.7	.3		.2		.0		.0																								386	386		
50/49	1.6	5.1	4.0	.6	.5		.2		.0		.0																								609	609		
48/47	1.0	4.6	2.6	.5	.4		.0		.0		.0																								462	462		
46/45	2.4	6.7	1.4	.6	.2		.0		.0		.0																								564	564		
44/43	2.0	5.5	.8	.5	.0		.0		.0		.0																								444	444		
42/41	2.2	5.6	1.2	.1	.0		.0		.0		.0																								457	457		
40/39	2.9	1.6	.5	.1	.0		.0		.0		.0																								257	257		
38/37	2.3	1.5	.3	.0	.0		.0		.0		.0																								207	207		
36/35	.8	1.2	.1	.0	.0		.0		.0		.0																								104	104		
34/33	.6	.9	.0	.0	.0		.0		.0		.0																								74	74		
32/31	.6	.9	.1	.0	.0		.0		.0		.0																								78	78		
30/29	.0	.3	.0	.0	.0		.0		.0		.0																								18	18		
28/27	.1	.1	.0	.0	.0		.0		.0		.0																								10	10		
26/25	.1	.0	.0	.0	.0		.0		.0		.0																								5	5		
24/23	.0	.0	.0	.0	.0		.0		.0		.0																								1	1		
22/21																																						
20/19																																						
18/17																																						
TOTAL	19.3	43.7	19.7	8.4	5.2	2.6	.8	.3	.0																										5049	5050	5049	

Element (X)	$\sum x^2$	$\sum x$	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.	36576391	423825	83.9	14.071	5049	≤ 0 F	≤ 22 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	12060379	243537	48.2	7.908	5050		16.5	12.7	.9			744
Wet Bulb	10780733	230843	45.7	6.698	5049		19.2					744
Dew Point	9656435	218069	43.2	6.365	5049		56.4					744

USAF ETAC FORM AN 44 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV
MONTH

PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	DB. W.B.	Dry Bulb	Wet Bulb	Dew Point														
64/ 63				.1														4	4																
62/ 61			.0		.0													2	2																
60/ 59			.1	.0	.1	.1												16	16	1															
58/ 57			.2	.1	.1	.0												19	19	4															
56/ 55		.2	.2	.3	.2													42	42	4	1														
54/ 53	.0	.1	.6	.4	.1													61	61	27	5														
52/ 51	.0	.4	1.2	.3	.1													102	102	39	22														
50/ 49	.4	1.8	2.8	.8	.1													289	289	131	65														
48/ 47	.8	2.7	2.2	.7	.0													315	315	274	123														
46/ 45	1.6	5.9	2.2	.8	.1	.0	.0											521	521	343	269														
44/ 43	2.0	6.8	1.6	.8	.0	.0												551	551	602	339														
42/ 41	2.6	9.6	3.4	.2	.0													778	778	594	645														
40/ 39	1.9	5.4	1.9	.1	.0													459	459	647	622														
38/ 37	2.4	4.4	1.0	.0														383	383	576	531														
36/ 35	1.5	4.6	.8	.0														342	342	408	387														
34/ 33	3.5	3.3	.5															360	360	474	571														
32/ 31	3.4	3.1	.2	.0														330	330	378	560														
30/ 29	1.3	1.5	.1															142	142	182	304														
28/ 27	1.4	.5	.0															97	97	111	214														
26/ 25	.5	.3																38	38	49	96														
24/ 23	.4	.2																30	30	30	65														
22/ 21	.2	.0																13	13	20	30														
20/ 19	.1	.1																8	8	5	36														
18/ 17	.0																	2	2	5	10														
16/ 15	.0																	2	2	2	9														
14/ 13																					2														
TOTAL	24.2	50.9	19.0	4.7	.9	.2	.0											4906	4906	4906	4906														

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	37467865	425323	86.7	1.011	4906	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	8256430	198574	40.5	6.682	4906		97.2					720
Wet Bulb	7558694	190288	38.8	6.023	4906		114.8					720
Dew Point	6774554	179754	36.6	6.198	4906		194.6					720

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS DEC MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B.-W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb	Dew Point															
58/ 57			.1	.1														6	6																
56/ 55		.0	.4	.1														24	24																
54/ 53		.2	.3	.0														27	28	13															
52/ 51		.6	.5															57	57	35	1														
50/ 49	.2	1.5	.8	.1														134	134	81	73														
48/ 47	.1	1.5	1.0	.1	.0													141	141	114	91														
46/ 45	.5	2.8	.9	.2														225	225	131	114														
44/ 43	.6	3.4	.8	.3														255	255	266	117														
42/ 41	1.0	6.1	2.4	.2														494	494	272	257														
40/ 39	.6	5.0	1.9	.1														394	394	398	314														
38/ 37	1.4	6.7	1.2	.1														483	483	514	357														
36/ 35	1.5	8.1	1.1	.1														547	547	563	407														
34/ 33	3.0	5.6	1.1	.0	.0													493	493	681	599														
32/ 31	3.0	5.7	.8	.2														493	493	497	708														
30/ 29	1.8	3.4	.4	.0														287	287	370	425														
28/ 27	3.2	3.5	.3	.0														358	359	343	393														
26/ 25	1.4	1.3	.2															147	147	213	278														
24/ 23	1.5	2.2	.1															189	190	156	258														
22/ 21	.8	.8	.0															83	84	158	140														
20/ 19	.6	.7																69	69	77	141														
18/ 17	.9	.5																76	76	98	110														
16/ 15	.3	.2																26	26	24	110														
14/ 13	.4	.4																43	43	44	83														
12/ 11	.3	.1																19	19	22	42														
10/ 9	.2																	12	12	12	48														
8/ 7	.2																	11	11	11	13														
6/ 5	.2																	9	9	9	15														
4/ 3	.0																	2	2	2	7														
2/ 1																					3														
TOTAL	23,760.5	14.2	1.6	.1														5104	5108		5104														
																		5104		5104															
Element (X)	Zx'	Zx	X	σx	No. Obs.	Mean No. of Hours with Temperature					Total																								
Rel. Hum.	38639028	441532	86.5	9.330	5104	≤ 0 F	≤ 32 F	≥ 47 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	6623328	178902	35.0	8.367	5108		266.1					744																							
Wet Bulb	6089283	171617	33.6	7.904	5104		296.8					744																							
Dew Point	5368618	159822	31.3	8.447	5104		404.4					744																							

FORM NO. 0-26-5 (OL A) REVISÉ PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JAN

PAGE 1 0000-0200

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26	27-28	29-30	≥31	D.B. W.B.	Dry B. pt	Wet Bulb	Dew Point																
52/ 51				.2																													1	1				
50/ 49	.2	1.1	.8																															13	13	4	2	
48/ 47	.2	1.3	1.1																															16	16	8	4	
46/ 45	.2	3.0	.5																															23	23	19	7	
44/ 43	.8	3.3	.8	.2																														32	32	30	17	
42/ 41	.8	7.3	1.4																															60	60	40	35	
40/ 39	1.4	5.6	1.3	.2																														53	53	48	56	
38/ 37	1.9	5.1	.8																															49	49	60	45	
36/ 35	1.4	6.9	.5																															55	55	51	47	
34/ 33	3.7	5.1	.3																															57	57	84	59	
32/ 31	6.1	7.2																																83	83	82	87	
30/ 29	2.4	5.3																																48	48	56	65	
28/ 27	3.5	1.9																																34	34	36	53	
26/ 25	1.3	1.4																																17	17	19	40	
24/ 23	1.0	1.1																																13	13	11	13	
22/ 21	1.8	.6																																15	15	18	12	
20/ 19	.5	1.8																																14	14	11	17	
18/ 17	1.6	.8																																15	15	19	9	
16/ 15	1.1	.5																																10	10	11	16	
14/ 13	.6	.5																																7	7	8	18	
12/ 11	1.0	.3																																8	8	8	5	
10/ 9	.2																																	1	1	1	11	
8/ 7	.2																																	1	1	1	5	
6/ 5	.2																																	1	1	1	2	
4/ 3																																					1	1
0/ -1	.2																																	1	1	1	1	
-2/ -3																																					1	1
TOTAL	31.96	60.1	7.5	.5																															627	627	627	627

Element (X)	Z ₁ '	Z _x	Z	Z ₂	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4997097	55749	88.9	8.017	627	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	757623	21121	32.7	8.586	627	.1	39.8					93
Wet Bulb	709164	20458	32.6	8.157	627	.1	42.0					93
Dew Point	627528	19256	30.7	8.586	627	.1	52.7					93

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JAN
MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	19-20	21	22	23-24	25-26	27	28	29-30	>31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point											
50/ 49	.3	2.0	1.2																												23	23	3	3	
47/ 47	.2	1.2	.6																												13	13	16	4	
46/ 45	.2	2.8	.9																												25	25	17	14	
44/ 43	.8	3.4	.8																												32	32	27	19	
42/ 41	1.4	6.3	.6																												54	54	42	36	
40/ 39	1.4	4.8	1.2	.3																											50	50	38	44	
38/ 37	1.4	2.9	.3																												30	30	46	51	
36/ 35	1.4	6.5	.9																												57	57	40	39	
34/ 33	3.2	5.1	.2																												55	55	80	54	
32/ 31	9.4	8.8	.2																												119	119	101	110	
30/ 29	3.2	3.7																													45	45	71	64	
28/ 27	3.9	1.5																													35	35	30	70	
26/ 25	1.4	.6																													13	13	16	25	
24/ 23	1.2	.5																													11	11	13	12	
22/ 21	.6	.6																													8	8	8	6	
20/ 19	.9	2.0																													19	19	15	12	
18/ 17	.8	1.2	.2																												14	14	18	10	
16/ 15	1.7	.6																													15	15	16	15	
14/ 13	1.9	.6																													16	16	15	24	
12/ 11	.5	.3																													5	5	7	14	
10/ 9	.3																														2	2	2	6	
8/ 7	.8																														5	5	5	5	
6/ 5																																		8	
4/ 3																																		1	
-4/ -5	.2																															1	1	1	
-8/ -9																																		1	
TOTAL	36.9	55.6	7.1	.3																											647	647	647	647	

Element (X)	Z _x ¹	Z _x	X	X ₂	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5249491	58107	89.8	7.967	647							
Dry Bulb	767612	21506	32.2	9.037	647	.1	44.3					93
Wet Bulb	722346	20886	32.3	8.631	647	.1	45.7					93
Dew Point	656639	19747	30.5	9.138	647	.1	55.1					93

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

JAN MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B.-W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
52/51		.3																														2	2			
50/49		.9	.6																													10	10	3	1	
48/47	.2	1.6	.3																													13	13	10	5	
46/45	.6	2.0	.8																													22	22	16	10	
44/43	.6	4.1	.5																													33	33	28	19	
42/41	1.4	8.6	1.1																													71	71	39	36	
40/39	2.0	4.7	.9	.2																												50	50	66	50	
38/37	1.9	4.1	.8																													43	43	49	56	
36/35	.8	3.9	.9																													36	36	40	30	
34/33	6.1	5.3	.3																													75	75	84	62	
32/31	5.6	8.3	.2																													90	90	93	90	
30/29	3.6	4.2																														50	50	64	69	
28/27	4.1	.9	.2																													33	33	33	65	
26/25	1.4	1.1																														16	16	12	35	
24/23	1.1	.8																														12	12	16	12	
22/21	.3	.6																														6	6	5	4	
20/19	1.1	1.3																														15	15	14	13	
18/17	1.4	.8																														14	14	18	7	
16/15	2.5	.5																														19	19	20	19	
14/13	.9	.8																														11	11	11	21	
12/11	.9	.2																														7	7	7	9	
10/9	.8	.2																														6	6	6	10	
8/7	.3																															2	2	2	5	
6/5	.5																															3	3	3	10	
4/3																																				1
-6/-7	.2																															1	1	1		
-8/-9																																			1	
TOTAL	38.3	55.0	6.6	.2																													640	640	640	
Element (X)	Zx ²	Zx	X	X ²	No. Obs.	Mean No. of Hours with Temperature						Total																								
Rel. Hum.	5231760	37630	90.1	7.788	640	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93																								
Dry Bulb	753270	21166	33.1	9.130	640	.1	41.4					93																								
Wet Bulb	709887	20571	32.1	8.729	640	.1	44.3					93																								
Dew Point	646233	19477	30.4	9.250	640	.1	53.9					93																								

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JAN

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B.-W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb	Dew Point
52/ 51		.5																3	3		
50/ 49	.2	1.3	1.1															16	16	6	5
48/ 47	.5	1.7	1.3	.2														23	23	13	7
46/ 45	.3	2.8	1.6	.3														32	32	19	13
44/ 43	.9	3.1	2.0	.2														40	40	35	19
42/ 41	1.6	8.5	3.1															84	84	40	30
40/ 39	1.7	5.0	1.9															55	55	85	61
38/ 37	2.2	5.2	.9	.2														54	54	69	63
36/ 35	1.6	4.9	1.6															51	51	57	49
34/ 33	3.6	5.6	.5															62	62	80	80
32/ 31	4.5	7.4																76	76	74	84
30/ 29	1.1	2.4																22	22	39	54
28/ 27	3.0	1.4	.2															29	29	21	52
26/ 25	.2	.9																7	7	9	17
24/ 23	.9	1.9																18	18	14	8
22/ 21	.8	1.9																17	17	21	13
20/ 19	.6	1.3																12	12	18	12
18/ 17	.2	1.3																9	9	7	18
16/ 15	1.4	.6																13	13	15	14
14/ 13	.5	.8																8	8	9	14
12/ 11	.3																	2	2	2	7
10/ 9	.5																	3	3	3	8
8/ 7	.2																	1	1	1	6
6/ 5																					3
-2/ -3	.2																	1	1	1	1
-4/ -5																					1
TOTAL	26.8	58.3	14.1	.8														638	638	638	638
Element (X)	Z _x ²	Z _x	X	X ²	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	4940189	55839	87.5	9126	638	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	831684	22374	35.1	8594	638	.1	31.8					93									
Wet Bulb	771020	21958	32.8	8175	638	.1	34.1					93									
Dew Point	688534	20198	31.7	8781	638	.1	45.3					93									

USAFETAC FORM 0-26-5 (O.L.A.) JAN 64 REVISION 1954 US EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 STATION NAME

YEARS

MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
54/ 53			.6																	4	4				
52/ 51		.6		.2																5	5	2			
50/ 49		.9	2.4	.5	.2														25	25	8	4			
48/ 47	.2	1.6	2.7	.3															30	30	11	7			
46/ 45	.5	2.5	3.0	1.9	.2														51	51	37	12			
44/ 43	.3	5.8	2.4	1.1															61	61	39	22			
42/ 41	.8	9.5	4.3	.6		.2													97	97	72	54			
40/ 39	1.4	4.3	1.6	.8	.2														52	52	82	65			
38/ 37	1.3	4.1	1.9	.5															49	49	68	68			
36/ 35	1.7	4.9	2.4																57	57	53	49			
34/ 33	2.1	5.8	1.3																58	58	70	59			
32/ 31	1.6	3.5	.9																38	38	71	68			
30/ 29	1.1	1.9	.2	.2															21	21	27	57			
28/ 27	1.1	2.4	.3																24	24	19	54			
26/ 25	.5	.8	.2																9	9	15	22			
24/ 23		3.0	.5																22	22	13	16			
22/ 21	.2	1.1	.2																9	9	17	15			
20/ 19		1.1																	7	7	9	6			
18/ 17	.5	1.4																	12	12	13	15			
16/ 15		.3																	2	2	5	13			
14/ 13																					2	12			
12/ 11																						7			
10/ 9		.2																	1	1	1	7			
8/ 7																						1			
6/ 5																						1			
TOTAL	13.1	55.7	24.6	6.0	.5	.2														634	634	634			
																				634	634	634			

Element (X)	Σx'	Σx	Σx ²	Σx ³	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	438668	52248	827411	305	634							
Dry Bulb	930634	23778	3757	834	634		21.3					93
Wet Bulb	82863	22213	3979	7376	634		28.2					93
Dew Point	71094	20574	32.5	8.246	634		43.1					93

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JAN
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
54/ 53		.2	.3	.2														4	4		
52/ 51		.8	.5	.3														10	10	5	
50/ 49	.3	1.4	2.4	.2														27	27	9	11
48/ 47	.2	1.6	1.8	.5														25	25	20	5
46/ 45	.2	4.8	2.7	1.1	.2													56	56	24	12
44/ 43	.3	5.9	2.7	.8														61	61	48	19
42/ 41	.3	9.1	3.4	.5														83	83	58	61
40/ 39	1.4	4.6	2.4	.5	.2													57	57	91	65
38/ 37	1.4	4.8	1.3	.5														50	50	67	66
36/ 35		6.2	1.3	.2														48	48	52	38
34/ 33	1.4	6.7	1.6	.2														62	62	71	61
32/ 31	2.6	5.8	.2															53	53	68	90
30/ 29	.6	2.2	.3															20	20	34	48
28/ 27	.8	2.2	.5															22	22	17	47
26/ 25	.2	.6																5	5	12	28
24/ 23		1.3	.5															11	11	9	9
22/ 21		2.1																13	13	11	9
20/ 19	.3	1.1																9	9	17	10
18/ 17		.6																4	4	6	6
16/ 15	.3																	2	2	3	14
14/ 13	.2	.2																2	2	2	15
12/ 11	.2																	1	1	1	8
10/ 9		.2																1	1	1	3
6/ 5																					1
TOTAL	10.7	62.5	21.7	4.8	.3													626	626	626	626
Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	4386515	52001	83.1	10.343	626	$\leq 0 F$	$\leq 32 F$	≈ 67	$\approx 73 F$	$\approx 80 F$	$\approx 93 F$	93									
Dry Bulb	930476	23654	37.8	7.662	626		21.2					93									
Wet Bulb	838997	22461	35.9	7.276	626		26.9					93									
Dew Point	722181	20645	32.0	8.131	626		42.8					93									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000
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								
56/ 55			.2																		1	1						
54/ 53		.6																			4	4						
52/ 51		.2																			1	1	5					
50/ 49		1.5	1.1																		17	17	4	6				
48/ 47	.2	1.5	1.1																		18	18	13	6				
46/ 45	.3	3.4	.3	.2																	27	27	22	11				
44/ 43	.5	4.5	1.4																		41	41	34	19				
42/ 41	1.1	10.8	3.7																		101	101	44	49				
40/ 39	1.1	6.3	1.9																		60	60	79	59				
38/ 37	2.8	4.0	.8	.3																	51	51	86	68				
36/ 35	.5	7	.3																		51	51	40	43				
34/ 33	1.9	5.0	1.2																		56	56	71	60				
32/ 31	2.9	7.7	.5																		72	72	73	76				
30/ 29	1.1	4.8	.2																		39	39	56	57				
28/ 27	2.0	2.0																			26	27	32	54				
26/ 25	.8	1.5	.2																		16	16	12	35				
24/ 23	.8	.9																			11	11	17	24				
22/ 21	.5	1.9	.2																		16	16	10	9				
20/ 19	.8	1.7	.3																		18	18	17	10				
18/ 17	.2	.2																			2	2	12	13				
16/ 15	.3	.6																			6	6	4	15				
14/ 13	.2	.6																			5	5	6	11				
12/ 11	.2																				1	1	3	4				
10/ 9	.6																				4	4	4	7				
8/ 7	.2	.2																			2	2	1	3				
6/ 5																							1	6				
2/ 1																								1				
TOTAL	18.6	67.8	13.2	.5																	646	647	646					
Element (X)	Zx ²	Zx	X																		No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4880930	55876	86.5	8.619																	646	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	857978	22958	35.5	8.191																	647		31.5					93
Wet Bulb	791876	22040	34.1	7.867																	646		35.7					93
Dew Point	701225	20549	31.8	7.588																	646		46.8					93

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

YEARS

JAN
 MONTH

PAGE 1 2100-2300
 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
54/ 53		.3																2	2		
52/ 51		.2						.2										2	2	3	
50/ 49	.5	1.4	.6	.2														17	17	4	7
48/ 47	.2	1.9	2.0	.2														27	27	12	5
46/ 45		3.7	.9															30	30	17	10
44/ 43	.5	3.2	1.4															33	33	46	19
42/ 41	1.2	7.7	.8															63	63	34	35
40/ 39	1.2	2.6	2.0															57	57	71	54
38/ 37	2.9	4.9	.3															53	53	62	74
36/ 35	2.5	8.2	.8															74	74	67	51
34/ 33	1.4	5.6	.3															47	47	74	57
32/ 31	4.0	9.1																85	85	65	88
30/ 29	2.0	4.6																43	43	67	58
28/ 27	2.3	1.4																24	24	30	60
26/ 25	.9	.8	.2															12	12	12	29
24/ 23	1.1	1.4																16	16	13	15
22/ 21	.9	.6																10	10	17	13
20/ 19	.8	1.2																13	13	10	7
18/ 17	.9	1.1																13	13	14	11
16/ 15	.3	.8																7	7	8	17
14/ 13	1.4	.5																12	12	14	11
12/ 11	.2																	1	1	1	10
10/ 9	.6																	4	4	4	5
8/ 7	.3																	2	2	2	7
6/ 5																					4
2/ 1	.2																	1	1	1	
-2/ -3																					1
TOTAL	26.2	64.0	9.2	.3				.2										648		648	648
Element (X)	Σx²	Σx	X̄	s²	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	5080048	37136	88.2	8.077	648	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F										
Dry Bulb	831164	22530	34.8	8.598	648		34.9					93									
Wet Bulb	773536	21752	33.6	8.187	648		37.0					93									
Dew Point	694542	20439	31.6	8.667	648	.1	48.2					93									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35022 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

YEARS

FEB
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb
58/ 57					.2												1	1		
56/ 55					.2												1	1		
50/ 49			.2														1	1	2	
48/ 47		.5	.2	.2													5	5	1	
46/ 45		1.0	.9	.2													10	10	5	4
44/ 43		1.6	1.0	.2													16	16	8	5
42/ 41	.5	7.3	2.3		.5												61	61	23	14
40/ 39	.7	6.8	2.1														55	55	48	29
38/ 37	3.6	7.1	2.4	.2													77	77	77	53
36/ 35	1.4	7.8	.9														58	58	66	51
34/ 33	3.6	7.6	1.2														72	72	92	63
32/ 31	2.3	7.5	.9														61	61	63	79
30/ 29	2.1	6.8	.5														54	54	73	68
28/ 27	4.9	3.1	.5														49	49	50	68
26/ 25	2.9	1.7															27	27	29	55
24/ 23	1.6	1.6															18	18	21	40
22/ 21	.3	.2															3	3	10	16
20/ 19																			1	14
18/ 17		.2															1	1	1	7
16/ 15																				2
14/ 13		.2															1	1	1	2
12/ 11	.3	.2															3	3	2	
10/ 9	.3	.2															3	3	4	3
6/ 5																				4
TOTAL	24.6	61.2	12.7	.7	.9												577	577	577	577
Element (X)	Σx'	Σx	X	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.	4384172	49998	86.7	9.480	577	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb	697509	19737	34.2	6.233	577		32.0					84								
Wet Bulb	641722	18952	32.8	5.778	577		37.1					84								
Dew Point	560588	17614	30.5	6.304	577		52.1					84								

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB

STATION

STATION NAME

YEARS

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PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
52/ 51		.2		.3															3	3			
50/ 49			.2	.2															2	2	1		
48/ 47		.3	.2	.2															4	4	2	1	
46/ 45		1.0	.7	.3															12	12	6	3	
44/ 43		1.7	.5																13	13	8	3	
42/ 41	.9	4.3	.9	.2															36	36	21	13	
40/ 39	1.0	5.7	1.7	.2															50	50	42	23	
38/ 37	4.7	7.9	2.6																88	88	72	57	
36/ 35	1.4	7.8	1.9																64	64	74	48	
34/ 33	2.8	6.6	1.0																60	60	86	72	
32/ 31	5.2	9.2	.2																84	85	72	92	
30/ 29	3.1	3.8																	40	40	62	66	
28/ 27	5.4	2.6	.2																47	47	47	62	
26/ 25	2.9	2.4	.2																32	32	31	48	
24/ 23	2.4	1.7																	24	24	28	29	
22/ 21	.9	.5																	8	8	13	28	
20/ 19	.2	.3																	3	3	4	9	
18/ 17		.3																	2	2	3	7	
16/ 15																						5	
14/ 13		.2																	1	1	1	5	
12/ 11	.3																		2	2	2	1	
10/ 9	.5	.2																	4	4	4	3	
8/ 7																						2	
6/ 5																						2	
TOTAL	31.6	56.8	10.2	1.4															579	580	579	579	
Element (X)	Σ X ¹	Σ X	X	X	No. Obs.	Mean No. of Hours with Temperature						Total											
Rel. Hum.	4544372	51044	88.2	8.763	579	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total											
Dry Bulb	679049	19489	33.6	6.463	580		35.9					84											
Wet Bulb	631404	18800	32.5	6.024	579		38.7					84											
Dew Point	559383	17601	30.4	6.488	579		52.1					84											

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

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB

STATION

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0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B., W.B.	Dry Bulb	Wet Bulb	Dew Point															
54/ 53				.2														1	1																	
50/ 49		.2	.3	.2														4	4																	
48/ 47		.2	.3	.2														4	4	2																
46/ 45		1.2	.3															9	9	5	2															
44/ 43		.3	1.0	.2														9	9	10	4															
42/ 41	.3	4.3	1.7															37	37	11	10															
40/ 39	1.6	6.0	.9															49	49	35	26															
38/ 37	2.9	6.4	.7	.5														61	61	65	43															
36/ 35	1.9	10.0	2.2	.3														84	84	54	45															
34/ 33	5.5	6.0	.5															70	70	109	77															
32/ 31	3.8	9.2	.3															77	77	87	78															
30/ 29	2.8	5.2																46	46	62	85															
28/ 27	5.4	2.6																46	46	46	57															
26/ 25	3.8	2.6																37	37	38	48															
24/ 23	2.2	1.7	.2															24	24	21	54															
22/ 21	.3	.3																4	4	10	14															
20/ 19	.3	.3																4	4	5	11															
18/ 17	.2	.3																3	3	4	4															
16/ 15	.7	.3																6	6	5	5															
14/ 13	.2																	1	1	3	7															
12/ 11																					3															
10/ 9	.3																	2	2	2	3															
8/ 7																					1															
6/ 5																					1															
4/ 3	.2																	1	1	1																
2/ 1																					1															
TOTAL	32.5	57.3	8.6	1.6														579	579	579	579															

Element (X)	Z _x ²	Z _x	X	F _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4557672	51118	88.3	8.787	579	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	660577	19209	33.2	6.349	579		36.4					84
Wet Bulb	614812	18558	32.1	5.882	579		41.2					84
Dew Point	544336	17374	30.0	6.308	579		54.0					84

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB

STATION

STATION NAME

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PAGE 1 0900-1100

MONTH

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																										TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	TOTAL											
																			Dry Bulb	Wet Bulb	Dew Point									
56/ 55																		1	1											
54/ 53					.2													1	1											
52/ 51				.2														1	1											
50/ 49		.2	1.9	.2														13	13											
48/ 47		.7	.9	.2														10	10	6										
46/ 45	.2	.7	1.4	.9														18	18	15	4									
44/ 43	.2	2.6	2.0	1.0														34	34	12	10									
42/ 41	.5	6.8	5.5	1.2	.2													83	83	29	14									
40/ 39	.9	5.3	4.4	1.2														59	69	69	39									
38/ 37	1.4	8.4	4.3	.9	.2													88	88	84	50									
36/ 35	1.4	8.4	4.3	.2														83	83	98	49									
34/ 33	1.9	5.6	1.9	.2														56	56	93	84									
32/ 31	2.9	6.1	.9															58	58	79	106									
30/ 29	.5	2.6	.2															19	19	36	63									
28/ 27	2.2	1.7	.3															25	25	29	63									
26/ 25	.5	1.0	.2															10	10	14	40									
24/ 23	.2	1.0																7	7	5	22									
22/ 21	.3	.3																4	4	9	13									
20/ 19		.2																1	1	3	7									
18/ 17	.2	.2																2	2	1	8									
16/ 15		.2																1	1	2	6									
14/ 13																					4									
12/ 11																					1									
10/ 9		.3																2	2	2	1									
6/ 5																					2									
TOTAL	13.1	52.2	28.0	6.0	.5	.2												586	586	586	586									

Element (X)	Zx'	Zx	X	°x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	3951468	47646	81.3	1.510	586							84
Dry Bulb	812895	21545	36.0	5.958	586		18.5					84
Wet Bulb	721169	20309	4.7	5.441	586		25.8					84
Dew Point	598940	18382	3.4	6.177	586		48.2					84

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

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB
 MONTH

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
60/ 59							.2											1	1																
58/ 57						.2	.2											2	2																
54/ 53					.2													1	1																
52/ 51			1.0	1.0	.2													13	13																
50/ 49			1.7	2.1	.7	.5												29	29	4															
48/ 47		.9	.9	1.9	.7	.2	.3											28	28	12															
46/ 45		1.7	2.9	3.3	1.5	.2												56	56	21	8														
44/ 43	.2	2.4	2.7	4.1	1.9													66	66	38	7														
42/ 41	.3	4.3	1.0	5.2	1.0													127	127	49	33														
40/ 39	.3	4.0	3.8	2.4	.3	.2												64	64	75	34														
38/ 37	1.2	4.8	3.4	1.5	.3													66	66	126	41														
36/ 35	1.0	2.4	3.4	.3	.2													43	43	89	72														
34/ 33	.5	2.2	1.2	.2														24	24	63	76														
32/ 31	.5	1.9	1.4															22	22	39	70														
30/ 29		1.7	.3															12	12	24	58														
28/ 27	.9	2.2	.3															20	20	22	56														
26/ 25	.2	.2	.2															3	3	11	44														
24/ 23		.3																2	2	4	45														
22/ 21																				2	10														
20/ 19		.2																1	1		11														
18/ 17		.2																1	1	1	3														
16/ 15		.2																1	1	2	5														
14/ 13																					5														
10/ 9																					4														
TOTAL	5.229	634.4	22.2	7.0	1.2	.5												582	582	582	582														

Element (X)	Σx^2	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3134271	41889	72.0	14.332	582	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	965293	23445	40.3	5.990	582		8.9					84
Wet Bulb	800686	21376	36.7	5.178	582		15.2					84
Dew Point	600946	18322	31.5	6.447	582		44.9					84

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

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	DB-W.B.	Dry Bulb	Wet Bulb	Dew Point													
58/ 57					.2	.2													2	2															
56/ 55					.2														1	1															
54/ 53				.2															1	1															
52/ 51		.2	.7	.5	.5	.2	.2												13	13															
50/ 49		.5	1.7	1.9	1.0	.3	.3	.2											35	35	4														
48/ 47		.9	2.6	1.7	1.5	.2	.2												41	41	14	3													
46/ 45		2.6	1.9	3.6	1.5	.7													61	61	20	8													
44/ 43	.2	2.9	4.5	2.9	.7														65	65	45	10													
42/ 41	.5	2.2	7.7	4.3	.5	.2													90	90	54	27													
40/ 39	1.0	5.0	7.2	1.7	.2	.2													89	89	80	38													
38/ 37	.5	4.1	4.6	2.2	.2	.2													69	70	116	51													
36/ 35		2.1	2.6	.7	.3														33	33	93	34													
34/ 33	.9	1.2	1.5	.2															22	22	61	79													
32/ 31	.5	3.1	1.5	.2															31	31	32	88													
30/ 29	.3	1.7	.9																17	17	33	54													
28/ 27	.3	.9	.3																9	9	17	61													
26/ 25	.2	.2																	2	2	11	38													
24/ 23		.2																	1	1	1	36													
22/ 21		.2																	1	1	1	13													
20/ 19																					1	5													
18/ 17		.2																	1	1	1	7													
16/ 15																						3													
14/ 13																						5													
12/ 11																						2													
10/ 9																						2													
TOTAL	4.5	27.9	37.7	20.2	6.8	2.1	.7	.2											584	585		584													
																			584		584														
Element (X)	Z _x ¹	Z _x	X	X ²	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	3134852	41948	71.8	514.453	584	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	84																							
Dry Bulb	986424	23784	40.7	16777	585		8.9					84																							
Wet Bulb	815824	21626	37.0	13772	584		14.0					84																							
Dew Point	614268	18260	31.8	10171	584		43.2					84																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35042 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB

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PAGE 1 1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
58/ 57						.5																											3	3				
50/ 49		.2	.2	.2																														3	3	1		
48/ 47		1.2	.8	.3																														14	14	4	1	
46/ 45		1.5	2.0	1.2	.3																													30	30	10	6	
44/ 43	.3	4.1	1.5	.2	.5																													39	39	25	7	
42/ 41	.5	7.6	6.8	.7	.3																													94	94	45	17	
40/ 39	.3	6.3	5.1	1.5	.2																													79	79	60	46	
38/ 37	1.2	7.8	5.3	.8																														89	89	93	60	
36/ 35	.3	8.1	5.4																															82	82	79	46	
34/ 33	.8	3.1	3.2	.2																														43	43	106	69	
32/ 31	.5	4.6	2.0	.5																														45	46	58	81	
30/ 29	.7	3.9	1.0	.2																														34	34	47	68	
28/ 27	.7	2.2	.5																															20	20	33	64	
26/ 25	.3	.5	.3																															7	7	15	41	
24/ 23		.7																																4	4	7	43	
22/ 21																																					3	15
20/ 19	.2	.2																																2	2	1	11	
18/ 17																																					1	5
16/ 15		.2																																	1	1	1	6
12/ 11																																						1
10/ 9																																						2
TOTAL	5.9	52.1	34.3	5.8	1.4	.5																														589		599
Element (X)	Z _x ²	Z _x	X	X ²	No. Obs.	Mean No. of Hours with Temperature						Total																										
Rel. Hum.	3770736	46643	79.2	11,460	589	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																										
Dry Bulb	843689	22077	37.4	5,466	590		16.2					84																										
Wet Bulb	738991	20643	35.0	5,135	589		23.7					84																										
Dew Point	601398	18468	31.4	6,163	589		48.1					84																										

REVISID PREVIOUS EDITIONS OF THIS FORM AND CALCULITE

FORM 0-26-5 (OL A)

USAFETAC

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

FEB

STATION

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2100-2300

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																
58/ 57					.2	.2																										2	2	2		
50/ 49			.2	.5																												4	4			
48/ 47			.2	.8																												6	6	2		
46/ 45	.3	1.4	.7	.3																												16	16	7	5	
44/ 43	.2	2.9	.7	.5	.2																											26	26	15	6	
42/ 41	1.0	6.3	3.0	.3	.2																											64	64	30	17	
40/ 39	1.9	6.8	3.7																													73	73	60	42	
38/ 37	1.2	7.8	3.0	.7																												75	75	75	35	
36/ 35	1.5	9.6	2.2	.2																												80	80	76	62	
34/ 33	1.5	5.9	2.5	.3																												61	61	102	69	
32/ 31	1.5	8.8	1.7																													71	71	57	90	
30/ 29	1.4	6.3	1.2																													52	52	66	65	
28/ 27	2.9	2.7	.5																													36	36	62	75	
26/ 25	.5	1.4																														11	11	15	44	
24/ 23	.2	1.2																														8	8	10	36	
22/ 21	.3	.2																														3	3	7	11	
20/ 19	.2	.2																														2	2	1	13	
18/ 17		.2																														1	1	1	13	
16/ 15																																		1	6	
14/ 13																																			1	1
12/ 11		.2																															1	1	1	1
10/ 9																																			1	1
8/ 7																																			1	1
TOTAL	14.56	2.82	0.6	2.4	.5	.2																											592	592	592	
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total																									
Rel. Hum.	4190061	49435	83.510	2.41	592	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																									
Dry Bulb	768922	21068	35.6	5.693	592		26.2					84																								
Wet Bulb	695306	20050	33.9	5.351	592		31.6					84																								
Dew Point	589715	18323	31.0	6.184	592		50.5					84																								

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15	16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
56/55				.2																												1	1			
54/53		.3	.3																													4	4			
52/51			.8																												5	5	3			
50/49	.2	1.0	1.8	.5																											21	21	7	4		
48/47	.5	.6	1.8	.5	.2																										22	22	16	7		
46/45	.3	4.2	3.2	.8																											53	53	29	12		
44/43	.6	3.7	2.6	.2																											44	44	43	24		
42/41	1.1	7.0	2.6																												67	67	50	51		
40/39	1.1	5.3	1.6	.2																											51	51	65	45		
38/37	1.1	7.2	2.6	.2																											69	69	55	62		
36/35	.8	6.7	3.8	.5																											74	74	63	45		
34/33	1.3	3.5	2.2																												44	44	79	67		
32/31	1.4	5.1	1.6	.5																											54	54	54	52		
30/29	.8	3.8	1.3																												37	37	58	48		
28/27	2.2	2.9	.2																												33	33	38	62		
26/25	.8	1.3	.3																												15	15	27	49		
24/23	.2	1.6																													11	11	11	31		
22/21	.2	.8																													6	6	9	14		
20/19	.2	.6																													5	5	5	15		
18/17		1.0																													6	6	7	11		
16/15		.2																													1	1	3	4		
14/13																																		1	1	12
12/11	.2																														1	2	1	4		
10/9	.2																														1	1	1	3		
8/7																																			3	
TOTAL	13.1	56.8	26.6	3.4	.2																											625	626	625		
Element (X)	Zx'	Zx	X	X	No. Obs.	Mean No. of Hours with Temperature					Total																									
Rel. Hum.	4316159	51519	82.4	10.5	625	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																									
Dry Bulb	890314	23148	37.0	7.4	626		25.4					93																								
Wet Bulb	801267	21943	35.1	7.0	625		32.0					93																								
Dew Point	680898	20020	32.0	7.9	625		45.8					93																								

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet bulb	Dew Point											
54/ 53		.2																1	1													
52/ 51		.3	.2															3	3	2												
50/ 49		.6	1.6															14	14	2	4											
48/ 47	.2	1.2	1.7	.3														22	22	11	3											
46/ 45	.5	4.1	1.6	.3														41	41	23	11											
44/ 43	.3	4.2	1.9															41	41	38	27											
42/ 41	.8	6.7	2.3		.2													64	64	47	29											
40/ 39	1.9	5.3	1.9	.2														59	59	72	64											
38/ 37	1.9	3.9	.9	.3														45	45	57	56											
36/ 35	2.0	7.2	.9															65	65	44	47											
34/ 33	2.5	5.8	.8															58	58	94	50											
32/ 31	2.2	8.0	1.2	.5														76	76	56	92											
30/ 29	3.3	4.2	.3															50	50	73	42											
28/ 27	2.8	3.4																40	40	39	73											
26/ 25	1.2	2.7	.2															26	26	33	44											
24/ 23	.3	1.4																11	11	17	23											
22/ 21	.3	.6																6	6	12	21											
20/ 19		.3																2	2	3	17											
18/ 17	.2	.9																7	7	6	5											
16/ 15	.6	.3																6	6	8	10											
14/ 13		.2																1	1	1	11											
12/ 11	.3	.2																3	3	3	5											
10/ 9																					3											
8/ 7																					4											
TOTAL	21.25	1.6	15.4	1.6	.2													641	641	.641	641											
Element (X)	ΣX^2	ΣX	\bar{X}	s_x^2	No. Obs.	Mean No. of Hours with Temperature						Total																				
Rel. Hum.	4766453	54925	85.7	9.693	641	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																				
Dry Bulb	349469	22049	35.6	7.393	641		33.1					93																				
Wet Bulb	781088	21912	34.2	7.076	641		36.4					93																				
Dew Point	683006	20306	31.7	7.880	641		50.8					93																				

USAFETAC FORM 0-26-5 (7/1 A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL									
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27	28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point																		
54/ 53		.2	.3	.2																														4	4						
52/ 51		.2	.8	.3																														8	8	1					
50/ 49	.2	.2	1.1	.2																														10	10	5	3				
48/ 47		.8	1.7	.6	.2																														21	21	10	1			
46/ 45	.5	2.5	2.0	.5																															35	35	20	8			
44/ 43	.3	4.0	1.7	.6																															43	43	34	16			
42/ 41	1.2	9.7	4.4		.2																														99	99	70	45			
40/ 39	1.6	5.0	3.0																																61	61	65	62			
38/ 37	1.9	3.6	1.7	.2																															74	74	74	69			
36/ 35	1.6	8.1	1.9																																47	47	58	48			
34/ 33	2.2	5.0	1.4																																74	74	74	69			
32/ 31	1.1	7.3	.8	.3																															55	55	82	70			
30/ 29	.6	3.3	.9																																61	61	66	71			
28/ 27	2.6	2.0	.2																																31	31	46	62			
26/ 25	.9	2.0																																	31	31	39	47			
24/ 23	.3	2.3																																	19	19	21	45			
22/ 21	.8	.8																																	17	17	14	26			
20/ 19		.2																																	10	10	17	14			
18/ 17	.2	.9																																	1	1	4	14			
16/ 15	.6	.2																																	7	7	5	15			
14/ 13	.3																																		5	5	7	5			
12/ 11																																			2	2	3	10			
10/ 9		.2																																			5				
8/ 7																																			1	1	1	4			
6/ 5																																				1	1	1	1		
TOTAL	16.8	58.3	21.8	2.8	.3																																	642	642	642	

Element (X)	Σx'	Σx	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	4592413	53917	84.0	10.016	642							
Dry Bulb	886274	23378	36.4	7.387	642		26.8					93
Wet Bulb	803312	22272	34.7	6.916	642		32.3					93
Dew Point	689872	20480	31.9	7.552	642		46.4					93

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

C
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DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERHANY/FRANKFURT 67-76
STATION STATION NAME YEARS

MAR
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B.-W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27-28	29-30	*31	Dry Bulb	Wet Bulb	Dew Point														
64/ 63						.2																									1	1			
62/ 61						.2	.3																								3	3			
60/ 59				.5	.3																									7	7				
58/ 57			.2	.5	.3	.5	.6																							13	13				
56/ 55			.6	.6	.2	.6																								13	13				
54/ 53		.2	.3	.8	1.4	.5																								20	20	7			
52/ 51		.5	1.1	1.4	.9																									25	25	10			
50/ 49		.3	3.6	3.4	1.1																									54	54	17	13		
48/ 47		.6	3.9	2.0	.6																									46	46	29	7		
46/ 45	.2	3.3	2.8	3.0	.6	.2																								64	64	60	13		
44/ 43	.3	4.4	2.5	2.5	.3	.2	.2																							66	66	74	23		
42/ 41		3.9	4.5	2.3	.5	.2																								73	73	60	59		
40/ 39		2.5	3.9	1.6	.8																									56	56	60	64		
38/ 37	1.2	3.4	3.6	1.6	.2																									64	64	85	61		
36/ 35	.3	2.6	2.3	.8	.2																									40	40	66	51		
34/ 33	.5	1.6	1.7	1.1																										31	31	66	77		
32/ 31	.3	1.4	2.2	.8																										30	30	35	69		
30/ 29	.2	1.2	.9	.2																										16	16	25	50		
28/ 27	.2	1.4																												10	10	23	49		
26/ 25		.3	.2																											3	3	15	24		
24/ 23			.3																											2	2	2	19		
22/ 21		.2	.2																											2	2	1	16		
20/ 19		.3																												2	2	6	17		
18/ 17																																	11		
16/ 15		.2																												1	1	1	6		
14/ 13																																	9		
12/ 11																																	5		
10/ 9																																	2		
TOTAL	3.1	28.2	34.7	22.9	7.3	2.3	1.4																								642	642	642		

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

Element (X)	$\sum X'$	$\sum X^2$	$\sum X$	$\sum X^3$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3386487	45773	71.3	313.852	642	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1183275	27135	42.3	7.533	642		9.6					93
Wet Bulb	977920	24696	38.5	6.501	642		15.6					93
Dew Point	745221	21295	33.2	7.787	642		40.1					93

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

39032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400

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		
70/ 69								.3											2	2			
68/ 67						.2	.2	.2											4	4			
66/ 65							.3	.2											7	7			
64/ 63						.6	.9	1.1	.2										18	18			
62/ 61				.3	.8	.5	.6												14	14			
60/ 59				1.7	.2	1.1	1.1	.5											29	29			
58/ 57			.3	.3	.6	.6	.3												14	14	1		
56/ 55			.5	1.7	1.2	.3													24	24	7		
54/ 53			.3	1.1	1.7	.5													23	23	25		
52/ 51		.2	.6	2.5	1.1	1.1	.2												36	36	15		
50/ 49		.3	1.7	3.6	2.3	1.2													59	59	38	8	
48/ 47		1.4	3.1	2.3	2.6	1.1	.3	.3											72	72	45	18	
46/ 45		1.9	2.8	1.9	2.8	1.1	.2												68	68	57	14	
44/ 43		2.2	2.2	2.6	2.3	.5	.2												64	64	73	27	
42/ 41		3.1	4.5	3.2	1.9	.3	.2												85	85	67	61	
40/ 39		2.3	1.5	1.9	.8	.2													43	43	69	62	
38/ 37	.5	1.1	1.5	.9	.5	.3													31	31	87	62	
36/ 35		.5	1.1	.8	.2														16	16	52	55	
34/ 33	.2	.2	.5	.9															11	11	44	63	
32/ 31	.2	.5	1.2	.3															14	14	27	55	
30/ 29		.3	.5																5	5	14	44	
28/ 27																					17	42	
26/ 25			.3																2	2	1	39	
24/ 23			.9																6	6		27	
22/ 21																					4	17	
20/ 19																					4	14	
18/ 17																						12	
16/ 15																						7	
14/ 13																						4	
12/ 11																						6	
10/ 9																						7	
8/ 7																						3	
TOTAL	.8	13.8	23.0	24.7	19.3	10.4	4.6	2.0	1.1	.3								647	647	647	647		
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.													Mean No. of Hours with Temperature					
Rel. Hum.	2581729	39567	61.2	15.837	647	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total											
Dry Bulb	1449786	30148	46.8	8.345	647		3.9	.9				93											
Wet Bulb	1104821	26375	40.8	6.774	647		9.6					93											
Dew Point	753444	21398	33.1	8.416	647		39.8					93											

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR

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
76/ 75																		1	1	
74/ 73																		1	1	
72/ 71																		1	1	
68/ 67																		11	11	
66/ 65								.5	.3		.5	.8						18	18	
64/ 63								.3	.9		.3	1.4						21	21	
62/ 61					.6			.3	.2		.6							11	11	
60/ 59				.2	.6			.8	.9		.3							18	18	
58/ 57					.5			1.4	.8		.5							20	20	6
56/ 55					.5			2.2	.6		.2							22	22	13
54/ 53		.2	.5		.9			1.3	.9									25	25	17
52/ 51		.5	.5		.8			1.6	1.1		.3							30	30	25
50/ 49		.6	2.4	3.5	4.1			3.2	.3		.2							90	90	49
48/ 47		.5	3.2	1.4	2.4			1.7	.2		.2							60	60	38
46/ 45	.2	2.2	2.2	3.2	3.2			.9			.2							76	76	43
44/ 43	.2	2.7	1.7	2.4	2.2			.2	.3									61	61	77
42/ 41		2.2	2.7	2.4	.8			.3										53	53	75
40/ 39		1.1	2.4	1.1	.6			.5	.2									37	37	74
38/ 37	.3	.6	1.9	.9	.6			.2										29	29	76
36/ 35	.3	.5	.5	.6														12	12	47
34/ 33	.3	.8	.5	.8														15	15	37
32/ 31		.2	1.3	.2														10	10	21
30/ 29			.3															2	2	14
28/ 27			.3															2	2	10
26/ 25			.3															2	2	2
24/ 23		.3	.3															4	4	2
22/ 21		.3																2	2	5
20/ 19																			3	3
18/ 17																				9
16/ 15																				6
14/ 13																				11
12/ 11																				3
10/ 9																				1
8/ 7																				3
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total								
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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

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DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-HAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

MAF MONTH

PAGE 2 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					
6/ 5																									3
TOTAL	1.3	12.6	21.0	20.3	22.2	12.8	3.8	3.6	1.6	.8											634	634		634	
Element (X)	$\sum X^2$	$\sum X$	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature						Total													
Rel. Hum.	2430641	37835	59.7	16.521	634	≤ 0 F	≤ 32 F	≈ 67 F	≈ 73 F	≈ 80 F	≈ 92 F	93													
Dry Bulb	1485171	30173	47.6	8.816	634		3.2	2.1	0.3			93													
Wet Bulb	1113754	26206	41.3	6.947	634		8.4					93													
Dew Point	748204	21094	33.3	6.560	634		40.0					93													

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAR
 MONTH

PAGE 1 1800-2000
 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															
68/ 67								.2																								1	1		
66/ 65								.2																								2	2		
64/ 63								.2																								4	4		
62/ 61						.2		.2																								4	4		
60/ 59					.8	.3		.9		.2		.3																			16	16			
58/ 57		.2	.2	.5	.2	.5	.5																								12	12			
56/ 55		.3	.2	.9	.2	.8																									15	15	5		
54/ 53			1.1	.8	.9	.8																									23	23	12	3	
52/ 51		.2	1.9	2.0	.3	.3																									30	30	9	3	
50/ 49		.5	2.2	2.5	1.4	.3																									44	44	27	1	
48/ 47		1.5	1.7	1.9	2.3																										48	48	34	13	
46/ 45		2.5	4.8	1.5	1.7																										68	68	54	25	
44/ 43	.3	2.9	2.3	2.6	1.2	.6																									55	65	55	28	
42/ 41		6.5	5.0	2.8	1.2	.2																									101	101	81	52	
40/ 39	.2	2.0	3.4	2.5	.3																										54	54	73	60	
38/ 37	.2	2.9	2.8	1.2	.2																										47	47	69	62	
36/ 35	.2	1.7	1.9	1.1	.6																										35	35	68	54	
34/ 33	.9	.8	1.2	.3	.2																										22	22	59	70	
32/ 31	.5	1.2	1.5	.5	.2																										25	25	34	59	
30/ 29		.3	1.1	.2																											10	10	18	45	
28/ 27		.2	.8																												6	6	18	44	
26/ 25		.2	.5																												4	4	12	27	
24/ 23		.3	.5																												5	5	4	31	
22/ 21		.3																													2	2	6	13	
20/ 19		.3																													2	2	5	14	
18/ 17	.2																														1	1	2	16	
16/ 15																																		8	
14/ 13																																		5	
12/ 11																																		7	
10/ 9																																		4	
8/ 7																																		1	
6/ 5																																		1	
TOTAL		2.3	24.8	32.8	22.1	11.3	4.8	.9	.8	.2																						646	646	646	
Element (X)	Z _X ²	Z _X	X	X ²	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	2207716	44490	68.9	4.926	646	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	1249622	27946	33.3	7.941	646		7.9	.1				93																							
Wet Bulb	1014822	25210	39.0	6.934	646		14.3					93																							
Dew Point	759244	21416	33.2	8.377	646		39.6					93																							

USAFETAC FORM NO. 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
58/ 57					.3																									2	2					
56/ 55		.2			.8	.3																								8	8					
54/ 53		.5	.3		.2																									6	6	2				
52/ 51		.5	1.0		.5	.5																								15	15	7	4			
50/ 49	.2	1.1	3.8		2.1	.6																								49	49	11	4			
48/ 47	.2	2.6	2.1		1.1	.8																								42	42	26	9			
46/ 45	.5	3.7	1.8		1.4	.2																								47	47	47	28			
44/ 43	.3	5.1	3.0		.5																									56	56	49	31			
42/ 41	.8	6.4	4.3		.6																									76	76	60	41			
40/ 39	.6	4.0	3.8		1.1	.2																								61	61	75	49			
38/ 37	.6	4.0	4.0		.5																									57	57	68	62			
36/ 35	.6	4.1	3.8		.3	.2																								57	57	58	55			
34/ 33	1.1	2.2	3.5		.2	.2																								45	45	73	58			
32/ 31	.8	3.8	1.6		1.0																									45	45	37	72			
30/ 29	.2	2.1	1.1																											21	21	43	48			
28/ 27	.2	1.1	.6																											12	12	27	44			
26/ 25		1.0																												6	6	13	35			
24/ 23		1.0	.2																											7	7	11	26			
22/ 21		.8	.3																											7	7	5	10			
20/ 19		.3	.2																											3	3	8	8			
18/ 17		.3																												2	2	3	11			
16/ 15	.2																													1	1	2	12			
14/ 13		.2																												1	1	1	9			
12/ 11	.2																													1	1	1	4			
10/ 9																																	4			
8/ 7																																	3			
TOTAL	6.4	44.8	35.4	10.2	3.2																										627	627	627	627		
Element (X)	Zx'	Zx	X	%	No. Obs.	Mean No. of Hours with Temperature					Total																									
Rel. Hum.	3874675	48705	77.7	2.077	627	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																									
Dry Bulb	1019864	24850	39.6	7.475	627		15.7					93																								
Wet Bulb	887053	23163	36.9	7.077	627		22.4					93																								
Dew Point	726326	20694	33.0	8.319	627		42.4					93																								

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

APR MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
62/ 61						.2												1	1						
60/ 59			.2	.2		.2												3	3						
58/ 57		.2		.2	.3	.2												5	5						
56/ 55		.5	1.0	.8	.5	.2												18	18	3	1				
54/ 53		1.0	1.2	.3	.5													18	18	4	2				
52/ 51		.3	2.7	.2														19	19	15	2				
50/ 49	.5	1.9	3.7	1.9	.3													49	49	26	14				
48/ 47	.3	2.5	3.7	1.3	.2													48	48	42	20				
46/ 45	.5	5.7	4.9	1.7	.5													79	79	48	34				
44/ 43	.7	3.7	2.9	1.2														50	50	72	34				
42/ 41	.5	7.9	5.1	1.7	.3													92	92	65	61				
40/ 39	.7	4.7	2.7	.3														50	50	70	58				
38/ 37	1.7	2.9	1.2	.7														38	38	75	88				
36/ 35	1.0	4.0	1.7															40	40	47	53				
34/ 33	.5	2.5	1.2	.2														26	26	38	45				
32/ 31	1.0	3.7	.5															31	31	42	52				
30/ 29	.2	1.5	.3															12	12	24	40				
28/ 27	1.3	1.0																14	14	19	41				
26/ 25	.2																	1	1	4	26				
24/ 23																					13				
22/ 21																					7				
18/ 17																					2				
16/ 15																					1				
TOTAL	9.1	44.1	32.8	10.6	2.7	.7													594	594	594	594			

Element (X)	ΣX^1	ΣX	X	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0 F$	$\leq 32 F$	$\approx 67 F$	$\approx 73 F$	$\approx 80 F$	$\approx 93 F$	Total
Rel. Hum.	3843071	47233	79.5	12.130	594							90
Dry Bulb	1097815	25207	42.4	6.887	594		8.8					90
Wet Bulb	962777	23627	39.8	6.226	594		13.5					90
Dew Point	809718	21556	36.3	6.805	594		27.6					90

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

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DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR
MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B. W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28		29-30	>31	Dry Bulb	Wet Bulb	Dew Point	
78/ 78																		1				
58/ 57					.2													1	1			
36/ 55		.2	.3	.2														4	4			
54/ 53	.5	.5	.3	.7	.5													15	15	5 4		
52/ 51	.5	.5	1.1	.2														14	14	10 4		
50/ 49	.5	2.6	.1	1.3														52	52	18 11		
48/ 47	.7	3.9	.6	.7	.2													49	49	40 16		
46/ 45	1.6	5.6	2.8	1.3	.2													70	70	53 46		
44/ 43	1.0	5.4	1.1	1.0														52	52	63 36		
42/ 41	.2	8.5	2.5	.8	.2													74	74	55 39		
40/ 39	1.0	5.4	3.6															61	61	79 62		
38/ 37	1.5	4.9	2.0	.7														55	55	66 82		
36/ 35	.5	4.3	1.3															37	37	56 41		
34/ 33	.7	3.6	1.1															33	33	49 64		
32/ 31	2.1	4.3	.5															42	42	46 64		
30/ 29	1.6	1.5																19	19	31 52		
28/ 27	2.3	1.1	.2															22	22	24 37		
26/ 25	1.1	.2																8	8	12 22		
24/ 23	.2																	1	1	2 25		
22/ 21																					3	
16/ 15																					1	
TOTAL	15.9	52.5	23.6	6.7	1.1														610		609	
																		609		609		
Element (X)	Σx'		Σx		Σ	Σx		No. Obs.								Mean No. of Hours with Temperature						
Rel. Hum.	4326738		50904		83.6	10.872		609								≤ 0 F	≤ 32 F	> 67 F	> 73 F	> 80 F	< 53 F	Total
Dry Bulb	1047546		24914		40.8	7.018		610								13.6					90	
Wet Bulb	939357		23601		38.8	6.378		609								17.0					90	
Dew Point	818954		21540		36.0	6.851		609								30.1					90	

USAFETAC FORM 34-4 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
64/ 63						.2													1	1															
60/ 59				.2	.2	.6	.2												7	7															
58/ 57				.3	.3	.2													5	5															
56/ 55			.8	.6	.8	.2													15	15	1														
54/ 53	.2	1.4	.8	.8	.6	.3													26	26	7	1													
52/ 51		1.8	1.9	.8	.3														30	30	15	4													
50/ 49	1.1	2.4	5.0	2.4	1.0	.2													75	75	44	25													
48/ 47	.3	1.9	4.2	1.1	1.0														53	53	44	21													
46/ 45	.8	3.4	4.0	1.8	.2	.2													64	64	63	32													
44/ 43	.5	4.3	3.4	1.0	.2														58	59	66	30													
42/ 41	.5	5.9	5.5	1.8	.8														90	90	70	76													
40/ 39	.3	4.2	3.2	1.3															56	56	66	67													
38/ 37	.8	4.8	2.3	.5															52	52	71	64													
36/ 35	.2	2.7	1.0	.2															25	25	65	50													
34/ 33	1.0	2.1	1.0	.2															26	26	52	77													
32/ 31	.6	1.3																	12	12	23	61													
30/ 29	.5	1.6																	13	13	17	36													
28/ 27	1.6																		10	10	14	37													
26/ 25	.5																		3	3	3	17													
24/ 23	.2																		1	1	1	16													
22/ 21																						6													
20/ 19																						2													
TOTAL	9.0	37.9	33.0	12.9	5.3	1.8	.2												622	623	622	622													
Element (X)	Zx²	Zx	X	Σx	No. Obs.	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total																							
Rel. Hum.	3884588	48482	77.9	37043	622																														
Dry Bulb	1203264	27044	43.4	6.864	622		5.6					90																							
Wet Bulb	1040194	25152	40.4	6.101	622		8.4					90																							
Dew Point	863758	22798	36.7	6.733	622		25.3					90																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	31	D 5 W 8	Dry Bulb	Wet Bulb	Dew Point																
76/ 75									.2																								1	1				
72/ 71									.2																									1	1			
70/ 69							.2		.2																									4	4			
68/ 67									.5		.6		.5		.2																			11	11			
66/ 65							.2		.5		.3		.2																					7	7			
64/ 63					.2		.2		1.0		.6		.3		.2																			15	15			
62/ 61					.5		.6		1.6		.8		.5																					25	25		1	
60/ 59					.6		1.3		2.1		.5		.6																					32	32		2	
58/ 57		.2		.5	1.3		1.4		1.6		.3																							33	33		4	
56/ 55		.2		1.3	2.1		1.9		1.1		.5																							44	44		9	
54/ 53		.3		1.6	2.6		3.1		.5		.3																							53	53		34	
52/ 51	.3		1.0	2.4	2.6		1.3		.6		.3																							53	53		46	
50/ 49	.3		1.1	3.7	3.7		3.1		1.3		.3																							84	84		68	
48/ 47	.8		1.8	1.8	1.9		2.6		.2																									45	45		77	
46/ 45	.3		1.8	3.2	2.4		1.6		.5																									61	61		69	
44/ 43	.2		1.3	1.6	2.7		1.3																											44	44		58	
42/ 41			1.8	4.7	2.9		1.0																											64	64		67	
40/ 39	.2		1.0	2.7	.8																												29	29		63		
38/ 37	.5		.8	.6	.2																													13	13		72	
36/ 35			.3																															2	2		35	
34/ 33																																				15	47	
32/ 31		.2																																1	1		2	
30/ 29																																					50	
28/ 27																																					27	
26/ 25																																					13	
24/ 23																																					7	
22/ 21																																					4	
20/ 19																																					3	
TOTAL	1.8	10.6	24.1	24.4	19.5	10.6	5.0	2.6	1.3	.2																									622	622		622

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

Element (X)	Zx'	Zx	X	Zx	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2637340	39362	63.3	15.354	622	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1607387	31273	50.3	7.512	622			.1	2.5	.1		90
Wet Bulb	1241592	27556	44.3	5.787	622			.3				90
Dew Point	903370	23326	37.3	6.787	622		25.9					90

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27	28	29-30	*31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
82/ 81									.2																							1	1				
80/ 79									.2																								3	3			
78/ 77														.3																			2	2			
76/ 75														.2																			2	2			
74/ 73														.6																			6	6			
72/ 71													.2	1.0									.3	.3	.2								12	12			
70/ 69								.2	.2			.2	.3	1.0									1.1	.3									18	18			
68/ 67							.2	.2				.5	1.1	1.3									.5	.2									24	24			
66/ 65												1.3	1.8	1.1																				26	26	2	
64/ 63								.8				1.3	1.0	.8	.2																			25	25	2	
62/ 61				.2	.3	1.0	1.0	1.5	1.0			.2																						31	31		
60/ 59			.5	.5	2.1	2.1	2.6	.6																										62	62	6	
58/ 57			1.1	1.1	3.1	1.3	1.8	.6																										56	56	5	
56/ 55		.2	1.1	.8	1.5	2.1	.5	1.0																										44	44	27	2
54/ 53		.6	.5	1.0	1.3	.8	.5	.3																										31	31	54	4
52/ 51		.2	1.6	1.6	2.1	.5	.5																											40	40	71	11
50/ 49		.6	1.1	2.3	1.5	2.8	.3																											53	53	81	15
48/ 47	.2	.8	1.1	1.8	2.6	1.0	.3																											48	48	65	19
46/ 45	.2	1.5	1.1	2.3	2.8	.8	.2																											54	54	63	45
44/ 43		.5	1.0	1.6	.8	.3																												26	26	51	41
42/ 41	.5	1.0	2.4	1.1	.6																													35	35	53	31
40/ 39		1.5		.2																														10	10	58	64
38/ 37	.3	.2	.3																															5	5	52	58
36/ 35		.2																																1	1	14	47
34/ 33		.2																																1	1	10	69
32/ 31																																					46
30/ 29																																					27
28/ 27																																					39
26/ 25																																					21
24/ 23																																					16
22/ 21																																					7
20/ 19																																					1
18/ 17																																					1
16/ 15																																					2
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature																															
Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																									
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC Form 12-65 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

YEARS

APR

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																	
84/ 83																																	1	1				
82/ 81														.2	.2	.2																	3	3				
78/ 77															.5	.2																	4	4				
76/ 75															.2	.6																	5	5				
74/ 73													.2	.3	.2	.2	.2																6	6				
72/ 71														.3	.8	.2	.5																11	11				
70/ 69						.2				.5	1.6	1.0	.2	.3																			23	23				
68/ 67					.2			.5	2.1	1.4	.8	.5																						34	34			
66/ 65								1.1	.6	1.9																								23	23	2		
64/ 63					.2	1.0	1.6	1.3	1.1																									32	32	1		
62/ 61				.6	.5	.6	1.8	1.0																										28	28	1		
60/ 59				1.3	1.1	2.6	2.1	1.0																										50	50	7		
58/ 57			1.0	.3	2.7	1.8	1.0	1.3	.3																									52	52	5		
56/ 55		.8	.2	.8	2.2	2.4	1.3	.5	.2																									52	52	30		
54/ 53		.5	1.0	.3	1.8	1.0	.8	.5	.2																									37	37	56		
52/ 51		.8	1.8	.5	1.9	.6	.2																											36	36	57		
50/ 49	.2	.6	1.4	2.6	2.2	2.9	1.3	.2																										71	71	96		
48/ 47	.5	1.9	1.3	1.8	1.3																													42	42	68		
46/ 45	.2	1.1	1.1	1.4	2.4	1.3	.3																											49	49	52		
44/ 43	.8	.5	1.1	.8	.2	.2																												22	22	72		
42/ 41	.5	1.8	1.3	.5	.2																													26	26	46		
40/ 39	.2	.8	.6																															10	10	61		
38/ 37	.3	.8																																7	7	48		
36/ 35																																			18	58		
34/ 33																																		4	66			
32/ 31																																			42			
30/ 29																																			39			
28/ 27																																			34			
26/ 25																																			27			
24/ 23																																			14			
22/ 21																																			3			
20/ 19																																			9			
18/ 17																																			3			
16/ 15																																			3			
Element (X)	ΣX^2	ΣX	\bar{X}	σ_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 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR

PAGE 2 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
14 / 13																						2
TOTAL	1.3	8.5	10.7	10.7	17.9	15.7	12.0	9.0	7.7	3.4	2.1	1.0						624			624	
																		624			624	
Element (X)	$\sum X^2$	$\sum X$	\bar{X}	σ^2	No. Obs.		Mean No. of Hours with Temperature										Total					
Rel. Hum.	1934512	32722	52.4	18.732	624		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1961596	34326	55.3	9.072	624				12.5	2.7	.6	90										
Wet Bulb	1365373	28951	46.4	5.965	624							90										
Dew Point	871849	22847	36.6	7.531	624			25.2				90										

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR

PAGE 1 1800-2000
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
82/ 81								.2	.2									2	2	
80/ 79								.2										1	1	
76/ 75									.2									1	1	
74/ 73									.2									1	1	
72/ 71									.3									2	2	
70/ 69								.5										3	3	
68/ 67						.3	.8	.2	1.0									14	14	
66/ 65				.3	.3	.5	.8	.3	.7	.2								16	16	1
64/ 63				.3	.8	.8	1.2	1.2	.3	.3								16	16	2
62/ 61			.2	.2	1.2	2.5	1.8	.8										40	40	1
60/ 59		.2	1.0	1.5	2.0	.5												31	31	6
58/ 57		.3	.7	1.5	1.8	1.3	.7	.3										40	40	11
56/ 55		1.2	1.2	1.7	1.7	1.7	.8	.2										50	50	29
54/ 53	.2	1.2	2.5	2.6	2.0	.2	.7											56	56	46
52/ 51	1.2	2.5	2.5	2.1	1.5	.3												61	61	66
50/ 49	.2	1.7	2.1	1.3	2.0	.7	.5											51	51	78
48/ 47	1.3	2.3	2.3	2.5	.7	.2												57	57	77
46/ 45	1.5	.7	2.5	.7	.9													37	37	54
44/ 43	1.0	1.8	3.1	1.5	.5	.3												50	50	63
42/ 41	.3	1.7	1.3	.3														22	22	50
40/ 39	.5	2.6	.5	.2														23	23	66
38/ 37	.7	.2																5	5	35
36/ 35	.2																	1	1	18
34/ 33																				3
32/ 31																				54
30/ 29																				31
28/ 27																				36
26/ 25																				13
24/ 23																				14
22/ 21																				3
20/ 19																				6
18/ 17																				7
14/ 13																				1
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	% 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 JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35022 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 STATION NAME YEARS

APR MONTH

PAGE 2 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point
TOTAL	2.1	15.5	17.2	17.8	17.2	13.2	8.1	5.1	2.0	1.7	.2							606	606	606	606
Element (X)	Zx ²	Zx	X	X ²	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	2453796	36938	61.018	3685	606	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1623265	30961	51.118	2677	606			3.6	.7	.3		90									
Wet Bulb	1220524	26960	44.515	2008	606		.4					90									
Dew Point	855785	22349	36.97	1363	606		24.5					90									

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

APR
MONTH

PAGE 1 2100-2300
H. URS (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
64/ 63				.2	.5	.5	.2												8	8		
62/ 61					.2	.2													2	2		
60/ 59		.2		.5	1.2	.7													16	16		
58/ 57			.3	.2	1.0	.3	.3												13	13	2	1
56/ 55			.7	.8	1.7	.7	.2												24	24	5	
54/ 53		.8	1.8	1.3	2.2	.5													40	40	9	1
52/ 51	.2	1.2	2.7	2.0	1.0	.5													45	45	28	6
50/ 49	.2	2.5	5.0	4.3	2.2	.5													88	88	37	20
48/ 47		2.3	4.3	2.0	1.2	.2													60	60	62	21
46/ 45	.2	2.7	3.2	1.3	.7	.2													49	49	74	44
44/ 43	.2	3.3	2.3	2.3	.7	.2													54	54	75	35
42/ 41		3.2	4.3	1.8	1.2														63	63	64	63
40/ 39	1.3	2.0	3.3	.2															41	41	55	64
38/ 37	.7	3.3	1.7	.5															37	37	65	71
36/ 35	.3	2.2	1.7	.3															27	27	54	50
34/ 33		1.5	.7	.3															15	15	32	55
32/ 31	.2	1.7	.5																14	14	22	62
30/ 29	.2	.2																	2	2	10	39
28/ 27																					4	31
26/ 25																						14
24/ 23																						11
22/ 21																						5
20/ 19																						3
18/ 17																						1
16/ 15																						1
TOTAL	3.3	27.1	32.8	18.2	13.5	4.3	.7												598	598	598	598
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.	3242857	43181	72.2	14.458	598	≤ 0 F	≤ 32 F	≥ 67 F	≥ 7: F	≥ 80 F	≥ 93 F	Total										
Dry Bulb	1292918	27488	46.0	7.016	598		2.4					90										
Wet Bulb	1072727	25075	41.9	5.973	598		5.4					90										
Dew Point	847619	22141	37.0	6.830	598		25.1					90										

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAY
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B.W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26	27	28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
70/ 77																																						
68/ 67				.2	.2	.2																												3	3			
66/ 65			.5		.3																													5	5			
64/ 63		.3	.5		.2																													6	6	2		
62/ 61		.3	.6	.5	.3																													11	11	5	1	
60/ 59	.6	1.3	1.6	1.6	1.3	.8																												45	45	11	11	
58/ 57	.5	2.3	1.9	.6	.5																													33	33	23	12	
56/ 55	2.3	4.7	1.9	1.0	.5																													64	64	43	31	
54/ 53	2.3	3.4	2.4	1.1																														57	57	62	34	
52/ 51	1.5	6.6	4.5	.6																														82	82	64	47	
50/ 49	.6	4.1	5.5	1.3																														71	71	78	66	
48/ 47	.5	4.7	2.6	.5	.2																													52	52	84	63	
46/ 45	1.3	5.5	1.1	.5																														52	52	65	76	
44/ 43	2.1	6.2	1.0	.6																														61	61	64	71	
42/ 41	1.3	3.7	1.0	.3																														39	39	48	81	
40/ 39	.2	1.5	.3																															12	12	23	49	
38/ 37	.3	1.1																																9	9	24	22	
36/ 35	.2	1.1																																8	8	9	14	
34/ 33	.3	.5																																5	5	10	18	
32/ 31		.2																																1	1	2	13	
30/ 29																																					5	
28/ 27																																					3	
TOTAL	13.9	47.5	25.1	6.9	3.4	1.0																												617	617	617	617	
Element (X)	X'	X	X	X	No. Obs.	Mean No. of Hours with Temperature										Total																						
Rel. Hum.	4469950	52026	84.3	1,613	617	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																											
Dry Bulb	1581759	30977	50.2	6,564	617		.2	.6																													93	
Wet Bulb	1432119	29497	47.8	5,979	617			.3																													93	
Dew Point	1300308	28046	45.9	6,492	617			3.2																													93	

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAY

PAGE 1 0300-0500

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point				
68/ 67					.2													1	1						
66/ 65				.2														2	2						
64/ 63		.3	.3	.3		.2												7	7						
62/ 61		.8	.2															6	6	2					
60/ 59	.3	.6	.5	1.3														17	17	12	5				
58/ 57	.6	.8	.6	.6	.3	.5												22	22	14	14				
56/ 55	1.6	3.3	1.9	1.6	.3													55	55	21	16				
54/ 53	2.1	5.1	3.0	.6														68	68	59	30				
52/ 51	1.9	5.2	2.1	.2														59	59	64	41				
50/ 49	2.4	7.3	6.4	.5														104	104	86	92				
48/ 47	1.6	6.0	1.9	.3														62	62	86	65				
46/ 45	2.1	7.3	.8															64	64	76	83				
44/ 43	.6	4.3	.5	.2														35	35	55	61				
42/ 41	2.4	5.6	1.0	.8														61	61	45	72				
40/ 39	1.6	2.1	.3															25	25	43	64				
38/ 37	.3	1.6	.2															13	13	24	17				
36/ 35		1.6																10	10	20	17				
34/ 33	.8	.8																10	10	12	23				
32/ 31	.5	.5																6	6	7	16				
30/ 29		.2																1	1	2	7				
28/ 27	.2																	1	1	1	6				
TOTAL	18.9	53.4	19.6	6.5	1.0	.6												629	629	629	629				

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4863747	54935	87.3	10.243	629	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	> 80 F	≥ 93 F	
Dry Bulb	1507906	30516	48.5	6.608	629		1.2	.1				93
Wet Bulb	1392072	29336	46.6	6.165	629		1.5					93
Dew Point	1289200	28184	44.8	6.477	629		4.3					93

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

MAY 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	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
72/ 71						.2	.2											2	2			
70/ 69				.2	.2			.2										3	3			
68/ 67				.2	.2	.5	.6											9	9			
66/ 65				.2	.3	.2	.2											5	5			
64/ 63		.3	.3	.6	.8													13	13	2		
62/ 61	.2	.8	.6	1.6	1.1	.2	.2											27	29	7	1	
60/ 59	.2	2.4	1.9	4.3	1.1	.6												66	66	15	8	
58/ 57	.5	1.9	2.8	3.0	.9	.3												60	60	37	16	
56/ 55	.5	2.7	3.0	3.9	.9													70	70	46	29	
54/ 53	1.4	2.7	3.6	2.7	.5													69	69	84	36	
52/ 51	.9	3.9	4.3	1.4	.2													68	68	75	47	
50/ 49	1.6	3.1	5.8	1.4	.5													79	79	95	80	
48/ 47	.9	5.0	2.2	.8	.3													59	59	89	84	
46/ 45	.6	3.6	1.7	.5														41	41	70	89	
44/ 43	.2	2.2	1.3	.6														27	27	43	52	
42/ 41	.5	2.8	.8	.3														28	28	29	90	
40/ 39		.5	.2															4	4	26	36	
38/ 37		.2																1	1	11	26	
36/ 35																				4	19	
34/ 33		.2																1	1	1	11	
32/ 31																					7	
30/ 29		.2																1	1	1	1	
28/ 27																					3	
TOTAL	7.4	32.4	28.5	21.6	6.9	1.9	1.1	.2										635	635	635	635	

Element (X)	Z _x '	Z _x	T	T _s	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	4.24954	49864	78.5	3.132	635							
Dry Bulb	1795761	33533	52.8	6.274	635		.1	2.1				93
Wet Bulb	1562951	31315	49.3	5.424	635		.1					93
Dew Point	1366679	29205	46.0	6.085	635		1.6					93

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 YEARS

MAY 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. W.B.	Dry Bulb	Wet Bulb	Dew Point													
80/ 79								.5	.2	.3	.3								4	4															
78/ 77											.3								6	6															
76/ 75						.2	.5			.3	.3								8	8															
74/ 73						.3	.5	1.1	.2	.2									14	14															
72/ 71					.2	.8	.9	.3	.3										16	16															
70/ 69					.8	1.4	.5	.3	.3										24	24															
68/ 67			.3	.9	.6	2.7	1.7	.5											43	43															
66/ 65			.9	1.1	1.6	2.0	1.4	.5											48	48	2														
64/ 63		.2	1.6	1.4	3.4	2.7	.5	.3											64	64	14														
62/ 61		.3	1.1	2.2	2.5	1.6	.8	.2											55	55	37	3													
60/ 59		.3	1.9	3.9	3.3	2.5	.9	.2											83	83	47	10													
58/ 57		.9	1.9	2.0	2.7	1.4	.2												58	58	60	21													
56/ 55		2.4	1.1	2.7	1.6	.9	.3												57	57	89	33													
54/ 53	.2	.9	1.7	3.0	1.1	.8													49	49	94	41													
52/ 51	.2	.3	1.6	1.4	1.3	.3													32	32	70	58													
50/ 49	.3	1.1	2.5	1.1	1.6														42	42	81	94													
48/ 47	.2	.5	.5	.6	.2														12	12	56	72													
46/ 45		.8	.8	.5															13	13	36	83													
44/ 43		.3	.5	.2															6	6	26	55													
42/ 41		.5																	3	3	16	51													
40/ 39		.2																	1	1	9	36													
38/ 37																					1	20													
36/ 35																						18													
34/ 33																						19													
32/ 31																						15													
30/ 29																						1													
TOTAL	.8	8.6	16.32	1.02	0.7	17.6	8.2	4.2	1.3	.8	.6								638	638	638	638													
Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	2679332	40272	63.1	4.680	638	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	2307713	38083	59.7	7.359	638			16.8	4.7			93																							
Wet Bulb	1789688	33606	52.7	5.537	638							93																							
Dew Point	1402514	29624	46.4	6.510	638			2.3				93																							

USAFETAC FORM NO. 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAY

STATION

STATION NAME

YEARS

PAGE 1

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

USAFETAC FORM 314 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
86/ 85													.3					2	2																
84/ 83									.2									4	4																
82/ 81							.2	.2	.3	.6		.2						10	10																
80/ 79						.2	.2	.5	.6									9	9																
78/ 77					.2	.3	1.1	1.1	.6	.6								24	24																
76/ 75					.2	.3	.8	.8	.5	.3								18	18																
74/ 73					.2	.8	1.4	.2	.5									19	19																
72/ 71					.8	1.6	2.5	1.0	.2									38	38																
70/ 69			.2	.3	1.6	.2	1.6	.8	.2									30	30																
68/ 67		.2	1.0	.6	2.4	2.9	1.7	1.4	.2									65	65	2															
66/ 65		.2	.2	1.1	2.4	2.2	1.4	1.0										53	53	7															
64/ 63		.3	.6	3.0	3.0	1.9	1.0	.5										66	66	22															
62/ 61	.3	.3	.6	3.3	1.3	1.6	.8											52	52	39	2														
60/ 59	.2	1.1	1.1	1.4	2.7	2.1	1.4											72	72	64	15														
58/ 57	.2	.3	.8	.6	1.3	1.3	1.0											34	34	67	8														
56/ 55		1.1	.5	1.4	1.0	.8	.8											35	35	92	24														
54/ 53		.5	1.4	1.0	1.7	.6												33	33	87	36														
52/ 51		1.3	1.3	.8	.5													24	24	58	54														
50/ 49	.2	.8	1.3	1.1	.6													25	25	70	68														
48/ 47		.3	.6	.2	.2													8	8	49	80														
46/ 45		.2	.3															3	3	48	78														
44/ 43		.3	.3															4	4	15	63														
42/ 41			.3															2	2	3	66														
40/ 39																				6	46														
38/ 37																				1	20														
36/ 35																					17														
34/ 33																					31														
32/ 31																					12														
30/ 29																					8														
28/ 27																					2														
TOTAL	.5	6.2	8.6	9.4	16.5	16.5	15.1	14.1	6.8	3.0	2.4	.5	.5					630	630	630	630														
Element (X)	Σx²		Σx		X		σx		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.	2025249		34205		54.3		16.349		630		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb	2571962		39908		63.3		8.359		630				32.3	12.7	2.8		93																		
Wet Bulb	1837764		33848		53.7		5.527		630				.3				93																		
Dew Point	1327472		28610		45.4		6.697		630		3.2						93																		

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAY 1500-1700

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
86/ 85														.6				4	4																
84/ 83								.2	.3	.2	.6	.3						10	10																
82/ 81								.2	.5	.5	.2	.2						10	10																
80/ 79								.2	.3	.5	.3							8	8																
78/ 77						.3	.2	.3	.6	1.0	.5							18	18																
76/ 75							.2	.8	1.4	.6	.6							23	23																
74/ 73						.2	.5	2.9	1.0	.2								29	29																
72/ 71					.8	.2	1.4	1.9	.8	.6								36	36																
70/ 69					.2	.3	2.1	2.2	1.3	.6								42	42																
68/ 67				.3	.6	2.2	3.0	3.4	.5	.2								64	65	6															
66/ 65		.2	.5	1.1	.5	2.2	3.0	1.3	1.0									61	61	6															
64/ 63		.3	.5	1.8	1.6	1.9	2.1	.6	.8									60	60	14	1														
62/ 61	.3	.2	.6	1.1	1.9	1.8	1.4	1.0										52	52	36	7														
60/ 59		.6	1.0	1.3	.6	1.4	.6	.8	.2									41	41	89	12														
58/ 57	.2	.5	1.4	1.8	.8	1.4	1.1											45	45	73	11														
56/ 55		.2	1.1	1.4	1.4	1.1	.8											38	38	82	20														
54/ 53	.2	.8	2.1	1.1	.5	.2												30	30	93	24														
52/ 51	.2	1.1	.8	1.0	.3													21	21	58	46														
50/ 49		.6	.6	.6	1.1	.2												20	20	69	103														
48/ 47		.2		.2	.2													3	3	46	78														
46/ 45		1.0		.2														7	7	32	71														
44/ 43		.2																1	1	12	61														
42/ 41		.5																3	3	5	64														
40/ 39																				5	39														
38/ 37																					16														
36/ 35																					25														
34/ 33																					21														
32/ 31																					21														
30/ 29																					3														
28/ 27																					3														
TOTAL	.8	6.2	8.6	11.8	10.5	13.4	16.5	15.5	7.8	4.3	2.2	1.1	.5	.6				626	627	626	626														
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total																								
Rel. Hum.	1982078	33472	53.5	17.543	626	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	93																							
Dry Bulb	2626418	40228	64.2	8.517	627			36.3	15.1	3.9		93																							
Wet Bulb	1854122	33902	54.2	5.382	626			.9				93																							
Dew Point	1326745	28511	45.5	6.719	626		4.0					93																							

USAFETAC FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM AND ORIGINATE

DATA PROCESSING BRANCH
 2 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

MAY

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D. B. W. B.	Dry Bulb	Wet Bulb	Dew Point														
84/ 83									.2				.2					2	2																
82/ 81								.2	.2									2	2																
80/ 79								.2	.5	.3	.3							8	8																
78/ 77								.3	.6									7	7																
76/ 75							.2	.3	.5									5	6																
74/ 73					.2	.2	.5	.5	.3	.2								12	12																
72/ 71					.2	.8	.9	.8	.5									20	20																
70/ 69				.3	.3	.9	.9	.6	.2									21	21	1															
68/ 67		.2		.3	.3	2.2	2.7	1.3	.2	.2								46	46	1															
66/ 65			.3	.8	1.1	2.1	1.3	.6	.5									42	42	4	1														
64/ 63		.8	.2	1.6	2.5	2.5	2.4	.6	.3									69	69	11															
62/ 61	.2	.5	.8	2.2	2.8	1.6	.8	.5										59	59	28	5														
60/ 59	.3	1.9	1.6	2.8	3.8	2.7	.8	.3										90	90	45	19														
58/ 57	.5	1.7	.6	2.8	2.1	.9	.8											60	60	77	14														
56/ 55		.2	2.2	2.2	1.1	.9	.5											45	45	90	30														
54/ 53		1.1	2.1	.5	.6	.9												33	33	79	28														
52/ 51	.2	1.9	2.8	1.3	.9		.2	.2										44	44	79	54														
50/ 49		1.4	1.6	1.1	.5													9	29	80	75														
48/ 47			1.4	.8	.5													17	17	51	61														
46/ 45		.6	.5	.2														8	8	41	93														
44/ 43		1.1	.3															9	9	26	47														
42/ 41		.3																2	2	13	80														
40/ 39		.2																1	1	5	31														
38/ 37																				1	20														
36/ 35																					17														
34/ 33																					20														
32/ 31																					10														
30/ 29																					5														
28/ 27																					1														
26/ 25																					1														
TOTAL	1.1	1.9	14.4	16.9	16.5	16.0	11.9	6.2	2.1	2.4	.3	.3	.2					632	632	632															

Element (X)	Z _X ¹	Z _X	T	° _X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 70 F	≥ 93 F	Total
Rel. Hum.	2621654	39240	62.1	7.136	632							
Dry Bulb	2329373	38061	60.2	7.680	632			18.2	3.4	1.2		93
Wet Bulb	1779685	33363	52.8	5.410	632				.3			93
Dew Point	1376002	29190	46.2	6.639	632		2.5					93

USAFETAC FORM 0-26-5 (OL A) REVISED WITHOUT NOTICE OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-70

YEARS

MAY
 MONTH

PAGE 1 2100-2300
 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																	
76/ 75								.2																										1	1				
72/ 71								.5																										7	7				
70/ 69				.3				.3																															
68/ 67			.2	.9				.2		.3																									13	13			
66/ 65			.2	.8				.6																											14	14			
64/ 63			.3	1.1	1.3			1.1	.2																										25	25		9	
62/ 61		.8	1.3	1.4	1.4			.8																											36	36		8	
60/ 59	.6	2.5	3.0	4.2	1.6			1.1	.2																										84	84		17	
58/ 57	.3	2.7	2.4	1.7	1.4			.2																											55	55		48	
56/ 55	.9	3.9	3.1	2.2	.9			.3																											73	73		73	
54/ 53	.8	3.1	3.5	3.8	.8																														76	76		90	
52/ 51		3.5	4.4	.9	.6	.2																													61	61		66	
50/ 49	.2	3.6	5.3	1.6	1.1																														75	75		96	
48/ 47	.3	2.7	1.9	.5	.3																														36	36		68	
46/ 45		4.2	1.4	1.1																															43	43		57	
44/ 43	.5	1.7	.6	.2																															1	19		52	
42/ 41	.2	1.1	.6																																12	12		26	
40/ 39	.2	.6																																	5	5		19	
38/ 37																																						7	
36/ 35																																							14
34/ 33																																							24
32/ 31																																							12
30/ 29																																							9
28/ 27																																							1
TOTAL	3.9	30.5	28.1	20.8	10.8	4.6	1.1	.2																												636	636		636
Element (X)	Σx^2	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature					Total																												
Rel. Hum.	3022528	48562	76.4	3.432	636	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F																												
Dry Bulb	1901753	34547	54.3	6.298	636			3.2	.1																														93
Wet Bulb	1623293	32043	50.4	5.456	636																																		93
Dew Point	1410352	29880	46.7	6.310	636										1.6																							93	

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

DATA PROCESSING BRANCH I
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21	22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point															
76/ 75							.2																										1	1			
74/ 73						.3																											2	2			
72/ 71				.2	.3	.2																										4	4				
70/ 69				.2	.2	.5																										5	5				
68/ 67			.5	.7	.7	1.3																										19	19				
66/ 65	.3	.5	.3	1.3	.7	.3																										21	21	6	2		
64/ 63	.3	2.0	2.5	1.7	1.7																											49	49	13	8		
62/ 61	.3	2.5	2.3	1.8	.3																											44	44	32	7		
60/ 59	.8	4.8	3.8	2.6	.5	.3																										78	78	51	33		
58/ 57	1.3	4.5	3.5	2.0	.2																											69	69	74	52		
56/ 55	2.0	3.1	1.8	2.1	.2																												56	56	79	59	
54/ 53	1.0	4.6	3.1	.8																													58	58	73	65	
52/ 51	1.0	4.1	2.5	.3																													48	48	58	72	
50/ 49	1.0	5.6	4.1	.2																													66	66	73	86	
48/ 47	.5	3.8	1.2																														33	33	58	55	
46/ 45	.8	2.6	.2																														22	22	46	58	
44/ 43	.2	2.0	.2																														14	14	20	43	
42/ 41	.8	.5																															8	8	13	46	
40/ 39	.2	.3																															3	3	2	10	
38/ 37	.3	.2																															3	3	5	6	
36/ 35		.3																															2	2		1	
34/ 33																																				2	2
TOTAL	10.9	41.5	26.0	13.9	4.6	3.0	.2																											605	605	605	605
Element (H)	Zx ²	Zx	X	%	No. Obs.	Mean No. of Hours with Temperature					Total																										
Rel. Hum.	259389	50257	83.1	11.833	605	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																									
Dry Bulb	1903925	33695	55.7	6.724	605			4.6	.4			90																									
Wet Bulb	1707633	31955	52.8	5.730	605							90																									
Dew Point	1557107	30493	50.4	5.784	605							90																									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

YEARS

JUN

PAGE 1 0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
70/ 69					.3	.3	.2	.2										6	6					
68/ 67				.7	.5	.3	.2											10	10					
66/ 65	.2	.5	.8	1.2	1.2													23	23	1	1			
64/ 63	.3	1.2	.7	.3	.3													20	20	10	3			
62/ 61	.7	2.7	2.0	1.7														42	42	15	8			
60/ 59	1.3	5.0	2.5	2.2	.3													68	68	46	36			
58/ 57	1.0	4.2	2.8	1.3	.2													57	57	66	32			
56/ 55	2.2	5.0	3.0	1.3	.2													70	70	75	57			
54/ 53	1.2	5.3	2.3	.5														56	56	68	50			
52/ 51	1.0	5.8	1.8	.2														53	53	77	78			
50/ 49	3.3	6.7	3.2	.2														80	80	62	110			
48/ 47	.5	4.5	1.0	.2														37	37	61	57			
46/ 45	1.3	5.5	.3															43	43	56	62			
44/ 43	1.2	1.7	.3															19	19	34	54			
42/ 41	.7	.5																7	7	14	29			
40/ 39	.7	.3																6	6	7	13			
38/ 37	.5																	3	3	4	10			
34/ 33	.2																	1	1	1	1			
TOTAL	16.1	46.6	20.8	10.1	3.0	.7	.3	.2										601	601	601	601			
Element (X)	Zx ²	Zx	X̄	Sx	No. Obs.	Mean No. of Hours with Temperature					Total													
Rel. Hum.	4548590	31878	66.3	10.840	601	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90												
Dry Bulb	1787593	32547	54.2	6.457	601			2.4				90												
Wet Bulb	1637834	31192	51.9	5.622	601							90												
Dew Point	1520544	30042	50.0	5.604	601							90												

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN

PAGE 1 0900-1100
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL D.B.-W.B.	TOTAL			
	1-2	3-4	5-6	7-8	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
90/ 89												.2	.2				2	2	
88/ 87												.3					2	2	
86/ 85									.2		.3	.3					6	5	
84/ 83									.2		.5	.2					5	5	
82/ 81								.3	.3	.2	.3	.5	.2				9	9	
80/ 79							.3	.3	.2	.2	.2						7	7	
78/ 77					.3	.6	.6	1.0	.3								18	18	
76/ 75					.6	1.4	.6	.6	.2	.2							23	23	
74/ 73		.2	.5	.3	1.3	1.0	1.6		.6								34	34	
72/ 71		.3	1.6	1.4	1.3	.6			.2								34	34	
70/ 69		.2	.2	.6	3.5	2.2	.8	1.0	.2								54	54	2
68/ 67	.2	.2	1.0	1.9	2.7	3.2	1.9	.3	.2								72	72	19
66/ 65		.3	1.9	1.8	1.4	1.9	1.4	.3									57	57	24
64/ 63		1.0	1.0	4.0	2.2	1.8	.3										64	64	63
62/ 61		1.0	1.3	2.9	1.8	1.0	.5										52	52	87
60/ 59	.2	.8	1.8	3.4	1.3	.8											51	51	76
58/ 57	.2	1.3	2.1	1.3	2.4	.2											46	46	78
56/ 55	.2	.8	1.3	1.3	1.6	.2											33	33	84
54/ 53	.3	1.0	1.3	1.0	.6												26	26	69
52/ 51		.8	1.3	.6													17	17	42
50/ 49	.3	.3	.2	.3													7	7	46
48/ 47		.2															1	1	22
46/ 45		.5															3	3	9
44/ 43																			2
42/ 41																			
40/ 39																			27
38/ 37																			18
36/ 35																			5
TOTAL	1.3	8.2	13.6	19.6	19.6	14.9	9.6	5.8	2.6	1.8	1.3	.6	1.0	.2			623	623	623
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature													
Rel. Hum.	2611620	39136	62.8	15.691	623	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb	2679661	40563	65.1	7.882	623			38.4	15.3	3.8		90							
Wet Bulb	2061037	35685	57.3	5.235	623			3.0				90							
Dew Point	1657439	31919	51.2	5.959	623			.6				90							

USAFETAC FORM 318-41 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN
 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	J.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
94/ 93																																		1	1		
92/ 91															.7	.2																	5	5			
90/ 89											.2		.2	.7	.5																	9	9				
88/ 87											.2		.2	.5																		5	5				
86/ 85											.3		.5	.2																		6	6				
84/ 83											.5	.5	.5	.5	.2																	12	12				
82/ 81									.2	.7	.3	.2	1.2	.3	.2																	18	18				
80/ 79								.5	.5	1.3	.8	.7	.3	.2																		26	26				
78/ 77					.5	.5	1.5	2.0	2.8	1.0	.8																					55	55				
76/ 75				.3	.3	.5	1.5	2.0	.8																							34	34				
74/ 73			.2	.2	.3	1.0	2.5	1.2	.2	.8	.2																					39	39				
72/ 71			.2	1.3	1.2	2.0	2.0	.5	.3																							45	45	1			
70/ 69		.2	.7	.5	1.2	1.7	.8	1.0	.3																							38	38	9	1		
68/ 67		.5	1.2	1.5	2.5	1.8	.8	.2																								51	51	21	1		
66/ 65			1.3	1.0	.8	1.3	2.5	.5																								46	46	43	6		
64/ 63		.3	1.7	1.0	1.5	1.8	1.5	.2																								48	48	76	8		
62/ 61			1.3	1.2	1.5	.8	.7																									33	33	93	15		
60/ 59		1.0	1.2	2.0	2.3	2.3	.3																									55	55	66	42		
58/ 57	.5	1.3	1.3	1.0	2.5	.3	.2																									43	43	70	47		
56/ 55		.3	.8	.5	.7	.3																										16	16	70	50		
54/ 53	.2		1.0	.5																												10	10	60	59		
52/ 51		.2	.3	.2																												4	4	37	65		
50/ 49		.2	.3	.2																												4	4	41	88		
48/ 47																																			10	48	
46/ 45		.2																														1	1	6	49		
44/ 43																																		1	44		
42/ 41																																				55	
40/ 39																																				15	
38/ 37																																				8	
34/ 33																																				2	
32/ 31																																				1	
TOTAL	.7	3.6	10.6	9.8	14.4	14.4	15.9	10.8	7.0	4.1	3.6	1.8	1.2	1.3	.3																			604	604	604	604
Element (X):	Σx²		Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature								Total																		
Rel. Hum.	1976120		33022		54.7		16.827		604		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total														
Dry Bulb	2903567		41531		68.8		8.913		604						51.3		31.2		10.4		.1		90														
Wet Bulb	2071826		35226		58.3		5.372		604						4.6								90														
Dew Point	1564370		30494		50.5		6.417		604						.1		.3						90														

USAF ETAC FCAM JUL 67 0-25-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN
MONTH

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	DB. W.B.	Dry Bulb	Wet Bulb	Dew Point														
92/ 91														.2	1.0			7	7																
90/ 89										.2	.2			1.0	.3			10	10																
88/ 87									.2	.2		.3						4	4																
86/ 85									.3		.7	.3						8	8																
84/ 83										.2	.7	1.2	.5					16	16																
82/ 81						.2	1.0	.7	.8	1.0	.3	.3						26	26																
80/ 79				.2	.3	.2	.7	1.5	1.2	1.0	.5							30	30																
78/ 77				.2	.3	.2	.3	1.8	2.8	1.5	.2	.3						46	46																
76/ 75				.3		.2	.8	1.5	1.8	.3		.2						31	31																
74/ 73			.2	.3	.3	1.0	1.6	1.5	.2	1.6	.2							42	42																
72/ 71		.2	.2	.5	1.0	1.2	1.0	2.3	.3									39	39		2														
70/ 69	.2	.3	.2	2.3	2.0	1.0	1.6	.8										51	51	12															
68/ 67	.3	.5	2.0	1.2	2.3	2.6	1.2	.2										62	62	21	6														
66/ 65	.3	1.2	1.3	1.2	.8	1.6	.3											41	41	34	5														
64/ 63	.8	1.2	1.6	1.3	1.8	1.6	.2											52	52	87	10														
62/ 61	1.2	.2	.5	1.2	.7	1.0												28	28	94	13														
60/ 59	.2	1.0	.5	1.8	1.3	.8	.2	.3										37	37	83	45														
58/ 57	.2	1.3	1.0	1.2	.8	.2	.2											29	29	70	45														
56/ 55	.2	1.2	1.5	.7														21	21	55	58														
54/ 53		1.0	.5	.8	.2													15	15	66	49														
52/ 51		1.0	.3															8	8	42	56														
50/ 49	.2	.2	.3															4	4	30	105														
48/ 47																				7	65														
46/ 45		.2																1	1	5	57														
44/ 43																					37														
42/ 41																					29														
40/ 39																					12														
38/ 37																					10														
36/ 35																					3														
32/ 31																					2														
30/ 29																					1														
TOTAL	.7	8.6	7.7	11.3	11.0	11.2	12.8	13.2	8.1	5.9	2.8	2.8	1.5	1.2	1.3			608	608		608														
Element (X)	Z _x '	Z _x	X	X	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	2052480	3454	55.0	18.677	608	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	2967352	42114	69.3	9.100	608			55.1	32.6	11.7	90																								
Wet Bulb	2110317	35681	58.7	5.189	608			5.2			90																								
Dew Point	1596078	30906	50.8	6.425	608			.4	.9			90																							

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN
-MONTH

PAGE 1 1800-2000
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	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
90/ 89											.2			.3	.2			4	4																
88/ 87									.3	.3	.2		.3					3	3																
86/ 85									.2	.3	.5	.3	.2					10	10																
84/ 83									.2	.2	.2	.2						3	3																
82/ 81									.3	.5	.8	.2						11	11																
80/ 79						.2	.6	.3	.5	1.0	.3	.3						20	20																
78/ 77						.6	.6	1.8	1.1	.5	.2							30	30																
76/ 75						.5	1.6	1.8	1.3	.2	.2							34	34																
74/ 73			.2	.2	.2	1.1	1.3	.8	.6	.3		.2						30	30																
72/ 71			.3	1.1	1.1	1.9	.5	.3	.5									36	36	1															
70/ 69		.6	.8	.6	1.8	1.8	.6	.5	.6									46	46	7	1														
68/ 67		.8	.8	.8	2.6	1.4	1.3	.8	.3									50	50	19	2														
66/ 65	.2	.5	1.1	1.6	2.1	1.6	.8	.6										53	53	30	5														
64/ 63	.2	.8	1.3	1.9	1.9	2.4	1.8											64	64	65	16														
62/ 61		1.6	1.1	1.4	1.8	1.0												43	43	80	12														
60/ 59	.5	2.2	.8	2.1	2.4	1.3												58	58	83	47														
58/ 57	.5	1.6	1.4	1.0	1.3	.3	.2											39	39	76	50														
56/ 55	.3	1.1	2.1	1.1	.3													31	31	66	58														
54/ 53		2.1	1.3	.5	.2													25	25	73	60														
52/ 51	.2	1.9	1.1	.2	.3													23	23	58	77														
50/ 49	.2	1.0	.5															10	10	44	88														
48/ 47		.2																1	1	16	56														
46/ 45		.2																1	1	6	54														
44/ 43																				1	39														
42/ 41																					37														
40/ 39																					16														
38/ 37																					2														
36/ 35																					3														
34/ 33																					2														
TOTAL	1.9	13.8	12.5	11.7	15.8	13.3	10.7	7.0	5.6	3.2	1.9	1.1	.8	.5	.2			625	625	625	625														
Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total																								
Rel. Hum.	2613213	38707	61.9	18.607	625	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total																							
Dry Bulb	2756896	41152	65.8	8.708	625			39.9	20.9	5.3		90																							
Wet Bulb	2084614	35942	57.5	5.324	625			3.9				90																							
Dew Point	1658024	31958	51.1	6.192	625					.4		90																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN

PAGE 1 2100-2300

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														
82/ 81							.2	.2		.2								3	3																
80/ 79							.2	.2		.2								3	3																
78/ 77						.7		.3		.2								7	7																
76/ 75					.2	.2	.2	.2		.2								5	5																
74/ 73					.8	.3	.7											11	11																
72/ 71				.2	.5	.8	.3		.3									13	13																
70/ 69				.3	.8	1.2	.7	.2										19	19																
68/ 67		.7	1.2	2.0	2.5	1.8	.9		.2									53	53	5	1														
66/ 65	.2	.5	1.8	3.1	1.7	.5	.3											49	49	17	4														
64/ 63	.3	1.7	2.0	3.5	1.3	1.5	.5											65	65	29	11														
62/ 61	.3	1.2	3.5	2.3	1.3													52	52	63	17														
60/ 59	1.0	2.0	3.8	2.6	1.5	.2												67	67	65	33														
58/ 57	.8	2.3	2.1	1.3	1.3	.2												49	49	84	54														
56/ 55	1.2	2.8	3.0	2.0	.5													57	57	82	65														
54/ 53	.5	3.6	2.6	1.2	.3													50	50	62	76														
52/ 51	.5	3.1	2.8	1.0														45	45	65	71														
50/ 49	.3	3.5	1.2	.3														32	32	60	94														
48/ 47	.2	1.8	1.0															18	18	45	56														
46/ 45		.5	.2															4	4	18	49														
44/ 43	.3	.2																3	3	10	39														
42/ 41		.2																1	1		24														
40/ 39																				1	11														
38/ 37																					1														
TOTAL	5.6	23.9	25.1	19.8	11.9	7.1	3.5	1.3	1.3		.5							606	606	606	606														
Element (X)	Z _x ²	Z _x	X	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total																								
Rel. Hum.	3551208	45488	75.1	5.035	606	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90																							
Dry Bulb	2209687	36331	60.0	7.223	606			16.9	4.3	.4		90																							
Wet Bulb	1866069	33471	55.2	5.339	606			.7				90																							
Dew Point	1624850	31192	51.9	5.653	606			.1				90																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	DB-WB	Dry Bulb	Wet Bulb	Dew Point	
70/ 69		.3	.7	.3	.3	.2	.2											12	12	2		
68/ 67	.2	1.8	2.0	1.5		.8		.2										39	39	7	4	
66/ 65	.5	2.4	2.9	1.1	.3	.3	.2											48	48	18	15	
64/ 63	.7	2.9	2.8	1.1														46	46	39	27	
62/ 61	2.4	5.4	2.1	1.1	.3	.2	.3											73	73	58	37	
60/ 59	2.0	9.1	3.1	.7	.2	.2												93	93	75	72	
58/ 57	1.8	5.5	2.1	.7	.3		.3											66	66	91	71	
56/ 55	1.8	7.6	2.4	.8														78	78	82	70	
54/ 53	1.5	4.9	2.9	.3														59	59	82	77	
52/ 51	.8	3.9	1.0															35	35	58	61	
50/ 49	.7	5.4	.3															39	39	58	84	
48/ 47	.7	1.3	.3															14	14	27	42	
46/ 45	.7	1.1																11	11	10	33	
44/ 43																				6	9	
42/ 41		.3																2	2	1	9	
40/ 39																				1	1	
38/ 37																					1	
36/ 35																					1	
34/ 33																					1	
TOTAL	13.5	52.0	22.6	7.6	1.5	1.6	1.0	.2										615	615	615	615	

Element (X)	Z _x '	Z _x	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4730347	53525	87.0	10.827	615	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2102209	35791	58.2	5.605	615			7.7				93
Wet Bulb	1940910	34402	55.9	5.188	615			1.4				93
Dew Point	1825692	33328	54.2	5.648	615			.6				93

USAFETAC FORM AIR 24 0-28-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

JUL 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	D.B. WB	Dry Bulb	Wet Bulb	Dew Point																	
82/ 81								.2																											1	1			
80/ 79								.2	.2																										2	2			
78/ 77							.5	.2	.3	.2																									8	8			
76/ 75				.5	.5	.8	.2	.2	.2	.2																									15	15			
74/ 73			.2	.2	1.3	.5	.2	.6	.3	.3																									20	20			
72/ 71		.2	.5	.5	1.9	.2	.3	.3	.2																										25	25	1		
70/ 69		.2	1.4	1.3	1.4	.3	.5																												32	32	6	1	
68/ 67		.8	3.4	2.7	.6	.3	.2																												50	50	11	5	
66/ 65		1.8	2.7	2.3	1.1																														49	49	51	10	
64/ 63	.8	3.5	5.0	3.2	.6		.3	.2																											85	85	62	37	
62/ 61	.8	4.3	3.7	1.9	1.6																														77	77	84	42	
60/ 59	1.3	5.6	4.0	3.9	.8		.2	.2																											98	98	84	110	
58/ 57	.5	3.9	3.4	.6	.3		.2																												55	55	88	72	
56/ 55	1.1	2.3	2.6	.5	.3																														42	42	83	71	
54/ 53	.6	3.1	1.9	.3																															37	37	68	67	
52/ 51	.2	1.8	.3																																14	14	47	58	
50/ 49		1.3	.2																																9	9	26	73	
48/ 47		.3																																	2	2	10	38	
46/ 45																																						17	
44/ 43																																						9	
42/ 41																																						7	
40/ 39																																						1	
36/ 35																																						1	
34/ 33																																						2	
TOTAL	5.3	29.0	29.3	17.9	10.6	2.1	1.9	1.8	1.1	.8	.2																								621	621	621	621	
Element (X)	Σx²		Σx		X	Σx		No. Obs.		Mean No. of Hours with Temperature										Total																			
Rel. Hum.	3712319		48521		78.1	13.981		621		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																								
Dry Bulb	2442624		38752		62.4	6.273		621				22.9	6.9	.3																									
Wet Bulb	2117537		36137		58.2	4.864		621				2.7																											
Dew Point	1900311		34179		55.0	3.557		621				.9																											

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
92/ 91													.2					1	1																
90/ 89												.3		.5				5	5																
88/ 87									.2		.2	.2	.2					4	4																
86/ 85							.3	.2	.3	.6	.3	.5	.2		.2			16	16																
84/ 83						.2	.3	.5	.3	.3	.2	.2	.2					13	13																
82/ 81						.2	.8	1.0	.2	.2	.6	.2						19	19																
80/ 79					.8	.5	.6	1.6	.3			.2						25	25																
78/ 77					.8	1.9	1.3	1.0	.5	.5								37	37																
76/ 75			.2		1.0	1.6	3.4	.5	.2	.2	.2							44	44																
74/ 73		.2		.3	1.6	3.2	1.0	.6	.2									44	44	5															
72/ 71		.6	.8	2.9	1.1	1.4	.8											48	48	13															
70/ 69			1.0	1.6	1.9	2.1	.6	.2	.2									47	47	26	4														
68/ 67		.3	1.1	3.0	3.5	4.5	1.4											87	87	46	10														
66/ 65		.2	.8	1.9	1.8	1.6	1.1	.6										50	50	67	21														
64/ 63		.2	1.1	1.3	3.5	1.8	1.8	.2										61	61	102	34														
62/ 61		1.4	1.4	1.6	1.9	.3	.2											43	43	75	45														
60/ 59		.3	1.9	1.0	2.1	.2	.2											35	35	89	97														
58/ 57			.6	1.4	1.1													20	20	78	69														
56/ 55		.3	1.0	.8	.8													18	18	51	67														
54/ 53		.5	.5	.2														7	7	50	71														
52/ 51																				16	59														
50/ 49																				7	72														
48/ 47																					43														
46/ 45																					20														
44/ 43																					4														
42/ 41																					5														
40/ 39																					3														
36/ 35																					1														
TOTAL	1.4	7.8	10.9	16.6	17.9	18.6	2.2	6.2	2.1	1.9	1.3	1.3	.8	.6	.3			625	625	625															
																		625		625															

Element (X)	Z _x '	Z _x	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2623563	39313	62.915	543	625	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	3050189	43379	69.4	7.947	625			58.2	31.1	10.3		93
Wet Bulb	2344440	38152	61.0	4.987	625			13.4	.7			93
Dew Point	1934390	34588	59.3	5.698	625			2.1				93

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL

PAGE 1 1200-1400

HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
96/ 95														.2	.2	.3	.2	3	3																
94/ 93														.3		.5		4	4																
92/ 91											.5	.3	.5	.2	.3	.5		8	8																
90/ 89										.5	.3	.5	.2	.3			11	11																	
88/ 87									.8	1.0	.3	.2	.2		.2		15	15																	
86/ 85						.2	.5	1.2	1.2	.5	.3	.2	.2	.2	.2		27	27																	
84/ 83					.2	.2	.7	1.7	1.2	.8		.2	.2				30	30																	
82/ 81					.3	1.0	1.8	1.7	.5	.7		.2	.2				37	37																	
80/ 79			.2		.2	.7	1.3	2.5	.7	.3							35	35																	
78/ 77			.2	.3	.5	3.2	3.2	1.8	.7								59	59																	
76/ 75			.2	.2	1.5	2.3	2.2	.8		.2							44	44																	
74/ 73			.7	.3	2.3	1.5	1.5	.3									39	39	5																
72/ 71			.2		2.0	1.2	1.5	1.2	.8								41	41	15	1															
70/ 69			.2	.7	1.5	1.3	1.5	.7	.5								38	38	36																
68/ 67		.3	.2	1.2	1.7	3.7	1.8	.5									56	56	49	7															
66/ 65		.8	.3	1.0	1.8	1.5	.7										37	37	77	9															
64/ 63	.2	1.0	1.5	1.3	1.0	2.2	.5										46	46	98	25															
62/ 61		.8	1.2	1.7	1.2	.2											30	30	76	32															
60/ 59		1.5	.7	1.0	1.0												25	25	79	82															
58/ 57		.3	.8	.3													9	9	72	76															
56/ 55		.5		.2													4	4	48	64															
54/ 53		.2															1	1	35	74															
52/ 51																				59															
50/ 49																			1	55															
48/ 47																				51															
46/ 45																				35															
44/ 43																				13															
42/ 41																				10															
40/ 39																				3															
38/ 37																				1															
34/ 33																				2															
TOTAL	.2	5.5	5.0	8.5	11.0	15.0	34.9	3.5	12.2	5.2	3.0	1.5	1.3	1.0	.8	1.2	.2	599	599	599	599														

Element (X)	Σx^2	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	1879653	32109	53.6	16.279	599	≤ 0 F	≤ 30 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	3258739	43869	73.2	8.761	599			69.4	48.4	23.4	1.1	93
Wet Bulb	2303129	37027	61.8	4.893	599			16.3	.8			93
Dew Point	1775439	32421	54.1	5.875	599			1.2				93

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL
 MONTH

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

T _{nd} (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
95/95												.2	.3	.2	.2	.5	8	8			
94/93												.3	.2	.2	.2	.3	4	4			
92/91												.6	.3	.2	.2		5	5			
90/89										.2	.5	.6	.3	.6			14	14			
88/87								.6	.6	1.1	.3	.2	.2	.5	.3		19	19			
86/85					.2	.5	1.5	3.2	.6	.6	.6	.2	.2	.5	.2		47	47			
84/83				.3	.2	.2	.3	1.0	.5	.8		.2					21	21			
82/81					.6	2.4	1.6	3.2	.8								54	54			
80/79				.2	.6	.6	2.7	1.6	.3	.3							40	40			
78/77				.3	.5	1.6	1.9	2.3	.2								42	42			
76/75			.5	.2	.5	2.1	2.7	.6									41	41	4		
74/73		.5	.3		2.4	1.0	1.3	1.0									40	40	2		
72/71			.5	1.1	1.6	2.7	2.3	1.0									57	57	20	2	
70/69			.5	2.1	1.6	2.1	1.0										45	45	41	2	
68/67		.3	1.5	1.9	1.9	2.7	2.3	1.0	.2								69	69	63	8	
66/65		1.1	.6	.6	.8	1.5	.5	.2									33	33	77	11	
64/63		.8	.5	.8	1.0	1.5	.3										30	30	107	33	
62/61		.8	1.0	1.1	.5	.3											23	23	82	32	
60/59	.3	1.0	.3	.6	.5												17	17	76	80	
58/57		.5	.6	.2													8	8	71	83	
56/55		.2															1	1	43	58	
54/53	.2	.2															2	2	28	65	
52/51																			6	76	
50/49																				70	
48/47																				39	
46/45																				32	
44/43																				13	
42/41																				9	
40/39																				1	
38/37																				2	
36/35																				2	
34/33																					
TOTAL	.5	4.8	5.0	7.1	8.2	13.5	14.0	16.3	11.5	8.1	4.2	2.1	.8	1.3	.8	1.0	.8	620	620	620	620
Element (X)	Σx ²		Σx		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.	1896850		32320		52.116		671		620		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb	3480768		46140		74.4		8.719		620				75.9	50.3	27.6	1.6	93				
Wet Bulb	2424478		38656		62.3		4.813		620				19.5	.9			93				
Dew Point	1854959		32705		54.4		6.050		620				1.8				93				

USAFETAC FORM 0-26-5 (OL.A) REV. 11/60
 IN ALL UNITS DECIMALS OF THE POUND ARE OBOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL
MONTH
PAGE 1 1800-2000
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													
94/ 93																	.2													1	1				
92/ 91																	.2		.2											2	2				
90/ 89													.2					.2											4	4					
88/ 87												.2		.2				.2											6	6					
86/ 85											.2	.5	.3	.7	.5			.2											16	16					
84/ 83								.8	.5	.8	.3	.5					.2												20	20					
82/ 81					.3	.3	1.3	1.5	.8	.8	.5	.2																	35	35					
80/ 79					.2	.8	.3	1.8	1.3		.3	.2																	30	30					
78/ 77					.3	.8	3.1	3.3	1.6	.2		.2																	58	58					
76/ 75			.2	.7	.7	1.3	2.3	1.0				.2																	38	38					
74/ 73				1.0	.5	1.8	1.0	2.0																					38	38					
72/ 71		.2	.2	.7	2.1	1.5	1.8	1.0	.3																				47	47	14				
70/ 69		.2		.7	2.6	1.1	2.5	.5	.2																				47	47	28	3			
68/ 67	.2	.3	.8	2.1	1.6	3.1	2.3	.7	.2																				69	69	43	10			
66/ 65	.3	.5	1.3	1.5	2.3	1.1	1.1	.2																					51	51	68	18			
64/ 63	.3	2.0	1.1	1.5	1.8	1.1	.5																						51	51	96	33			
62/ 61	.3	.8	.5	1.0	1.5	.2	.2																						27	27	90	27			
60/ 59	1.0	1.6	1.3	2.5	1.5	.2																							48	48	74	84			
58/ 57		.7	1.0	.5																									13	13	71	69			
56/ 55	.2	1.1	.2																										9	9	63	64			
54/ 53		.3																											2	2	48	56			
52/ 51																														11	11	79			
50/ 49																														1	1	56			
48/ 47																																	41		
46/ 45																																	36		
44/ 43																																	11		
42/ 41																																	5		
40/ 39																																	4		
38/ 37																																	1		
36/ 35																																	2		
34/ 33																																	3		
TOTAL	2.3	7.7	6.5	11.9	15.2	13.4	17.2	12.4	5.9	2.1	2.0	1.3	.2	.5	1.0	.5																612	612	612	
																																	612	612	
Element (X)	Z_X'		Z_X		X	σ_X	No. Obs.	Mean No. of Hours with Temperature					Total																						
Rel. Hum.	2311625		36109		59.0	17.216	612	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																					
Dry Bulb	3106301		43323		70.8	8.040	612			62.5	37.7	14.9	.2	93																					
Wet Bulb	2308853		37469		61.2	4.931	612			13.7	.8			93																					
Dew Point	1847309		33407		54.6	6.233	612			2.0				93																					

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL

STATION

STATION NAME

YEARS

MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
82/ 81								.2										1	1																
80/ 79								.2	.2		.2							3	3																
78/ 77				.2	.3	.3	.2	.5	.3	.2	.2							12	12																
76/ 75			.2	.5	.7	.8	.3	.2	.2									19	19																
74/ 73	.2		1.3	.8	1.1	.3	.3	.2	.5									29	29																
72/ 71		.5	2.1	2.8	1.1	.3	.3											44	44	3	1														
70/ 69		.3	.8	.8	3.3	.5	.2											36	36	7	1														
68/ 67		1.1	2.1	4.4	3.1	1.3	.2		.3									77	77	26	8														
66/ 65	.2	1.3	2.8	3.6	2.1	.8												66	66	36	14														
64/ 63	.8	4.1	3.4	3.6	1.8	.7												88	88	84	38														
62/ 61	.8	3.1	2.3	2.3	1.1													59	59	105	51														
60/ 59	.8	2.1	4.4	2.5	1.3	.2												69	69	77	89														
58/ 57	.7	1.5	2.8	2.0	.3													44	44	81	72														
56/ 55	.2	2.1	2.9	.3	.2													35	35	78	61														
54/ 53	.8	.8	1.3															18	18	55	61														
52/ 51	.2	.3	.2															6	6	40	85														
50/ 49		.5	.3															5	5	13	54														
48/ 47																				5	40														
46/ 45																				1	17														
44/ 43																					10														
42/ 41																					5														
40/ 39																					3														
38/ 37																					1														
TOTAL	4.4	17.5	24.4	23.4	17.5	6.7	2.0	1.6	1.1	1.0	.2	.2								611	611	611													

Element (X)	ΣX^2	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3445922	45066	73.8	14.139	611	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total
Dry Bulb	2549236	39284	64.3	6.205	611			33.6	9.7	.2		93
Wet Bulb	2147479	36105	59.1	4.786	611			5.5				93
Dew Point	1884284	33756	55.2	5.634	611			1.5				93

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG
MONTH

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B.-W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb		Dew Point		
76/ 75						.2	.2													2	2			
74/ 73				.2	.2															2	2			
72/ 71				.3	.5															5	5			
70/ 69			.3		.8		.2													8	8			
68/ 67		1.0	2.1	2.0	.8	.2														37	37	5		
66/ 65	.2	2.0	3.1	1.1	1.3															47	47	23	8	
64/ 63	2.0	5.2	1.8	2.1	.8	.3														75	75	54	42	
62/ 61	1.3	3.7	2.3	1.3	1.0															59	59	66	38	
60/ 59	2.8	1.9	6.2	3.9	1.0	.2														159	159	67	70	
58/ 57	1.5	6.0	3.1	1.1	.3															74	74	114	89	
56/ 55	.3	4.9	1.8	1.1	.2															51	51	90	78	
54/ 53	.3	4.6	1.3	.5	.2															42	42	77	58	
52/ 51	.7	2.6	.8	.2																26	26	55	81	
50/ 49		2.1	.3																	15	15	34	62	
48/ 47		1.3																		8	8	19	41	
46/ 45	.3																			2	2	8	28	
44/ 43	.2																			1	1	1	7	
42/ 41	.2																			1	1	1	10	
38/ 37																							2	
TOTAL	9.6	45.3	23.1	13.8	7.0	.8	.3														614		614	
																				614		614		

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. 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.	4401433	51523	83.9	1.276	614							
Dry Bulb	2194706	36574	59.6	5.127	614			8.2	.6			93
Wet Bulb	1991257	34845	56.8	4.740	614			.8				93
Dew Point	1842740	33474	54.5	3.390	614							93

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B. W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥31	Dry Bulb	Wet Bulb	Dew Point
74/ 73							.2											1	1		
70/ 69			.2															1	1		
68/ 67		.3	1.4	1.7	.3	.2												25	25		
66/ 65	1.3	1.4	1.6	.5	.2	.3												33	33	14	10
64/ 63	3.3	4.3	3.2	.6	.3													74	74	48	42
62/ 61	1.9	3.8	1.9	.8	.5		.2											57	57	57	28
60/ 59	4.1	5.9	3.8	1.4														96	96	70	72
58/ 57	3.0	7.2	3.2	1.6		.2												95	95	89	70
56/ 55	2.7	5.7	2.2	.8														72	72	100	74
54/ 53	1.4	6.2	1.7	.6														63	63	79	67
52/ 51	1.3	4.6	1.0	.5														46	46	69	75
50/ 49	1.6	4.1	.6	.5														43	43	50	92
48/ 47	.5	.8	.2															9	9	31	47
46/ 45	.5	.8																8	8	15	24
44/ 43	.8																	5	5	6	12
42/ 41	.2																	1	1	1	10
40/ 39																					5
34/ 33																					1
TOTAL	22.0	45.2	21.0	9.1	1.3	.6		.3										629	529	629	629
Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	4942631	53351	88.0	10.695	629	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	2108946	36274	57.7	5.210	629			4.0	.1			93									
Wet Bulb	1963234	33000	55.6	5.000	629							93									
Dew Point	1853162	33962	54.0	5.562	629							93									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	+31	Dry Bulb	Wet Bulb	Dew Point														
78/ 77						.2	.6																								5	5			
76/ 75						.2	.2																								2	2			
74/ 73						.2	1.1	.2																						9	9				
72/ 71			.6	.2	1.9	.2	.2																							19	19				
70/ 69		.2	.9	.6	.9	.2	.2																							18	18				
68/ 67		.8	.8	3.5	1.3	1.4	.2																							50	50	8	1		
66/ 65	.8	1.1	2.5	1.1	1.9	.6	.3																							53	53	31	12		
64/ 63	3.6	4.4	2.4	2.2	1.1	.2	.2																							89	89	78	47		
62/ 61	1.3	4.3	3.3	2.1	1.4	.2																								79	79	71	30		
60/ 59	2.7	6.5	4.7	3.0	.6	.2																								112	112	74	109		
58/ 57	1.4	6.3	3.2	.8	.8																									79	79	110	70		
56/ 55	.3	2.8	1.9	.5	.2																									36	36	94	79		
54/ 53	.5	4.4	1.6	.3	.2																									44	44	71	50		
52/ 51	.2	3.3	.3																											24	24	48	97		
50/ 49	.5	.2	.2																											5	5	33	65		
48/ 47	.2	.9																												7	7	12	35		
46/ 45	.3																													2	2	3	19		
44/ 43	.2																													1	1	1	12		
42/ 41																																	7		
40/ 39																																	1		
TOTAL	11.8	35.2	22.4	14.2	10.4	4.1	1.9																							634	634	634	634		

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. 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.	4324389	51649	81.5	13.583	634							
Dry Bulb	2376334	38650	61.0	5.642	634			15.1	2.3			93
Wet Bulb	2114541	36493	57.6	4.704	634			1.2				93
Dew Point	1928756	34806	54.9	3.324	634			.1				93

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 07-76 YEARS

AUG MONTH

PAGE 1 0900-1100 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
90/ 89										.2								1	1																
88/ 87									.2									1	1																
86/ 85								.5	.8	.2								9	9																
84/ 83						.2	.5	.3	.6									10	10																
82/ 81						.5	1.1	.6	.2	.2								16	16																
80/ 79					.2	.6	.3	1.2	.5	.2	.2							20	20																
78/ 77					.8	.6	1.7	.9	.9									32	32																
76/ 75				.3	.6	.8	2.3	.6	1.1	.2	.2							39	39																
74/ 73				1.5	.9	2.0	1.2	1.5	.3									49	49																
72/ 71			.5	.9	2.5	.9	1.8	.9	.2									47	47	3															
70/ 69		.2	1.8	1.5	2.3	2.3	1.4	.5	.2									66	66	25															
68/ 67		.8	2.2	3.5	3.2	3.1	1.2	.3	.2									94	94	48	4														
66/ 65	.2	.6	2.2	1.5	2.0	.9		.3										50	50	70	24														
64/ 63	1.2	3.1	3.7	3.2	3.5	.5	.2											100	100	94	48														
62/ 61	.9	1.2	1.8	2.0	.8	.2												45	45	100	54														
60/ 59		2.3	1.4	2.3	.2	.2												41	41	104	97														
58/ 57		1.2	.8	1.5														23	23	95	84														
56/ 55	.2	.2	.3	.2														5	5	68	61														
54/ 53	.3	.2																3	3	28	65														
52/ 51																				14	77														
50/ 49																			2		80														
48/ 47																					34														
46/ 45																					11														
44/ 43																					5														
42/ 41																					3														
40/ 39																					3														
38/ 37																					1														
TOTAL	2.8	9.7	14.6	18.1	16.9	12.0	10.8	7.8	4.6	2.0	.8							651	651	651															
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	2946409	42553	65.4	15.928	651	≤ 0 F	≤ 32 F	67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	3082344	44576	68.5	6.903	651			54.9	25.3	5.9		93																							
Wet Bulb	2426772	39644	60.9	4.397	651			10.9				93																							
Dew Point	2031958	36202	55.6	5.374	651			.6				93																							

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400

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
96/ 95															.2				1	1	
94/ 93															.2				1	1	
92/ 91															.2				1	1	
90/ 89													.2	.8	.2				7	7	
88/ 87										.2	.2	.5	.6	.2					10	10	
86/ 85								.6	1.0	1.4	1.0	1.0							31	31	
84/ 83							.3	1.0	2.2	.3	.3	.2							29	29	
82/ 81						.3	1.4	.8	1.0	1.1	1.1	.3	.2						39	39	
80/ 79						.6	.3	1.6	1.4	1.1	.5	.3	.2						38	38	
78/ 77						1.4	2.2	1.9	2.9	2.5	.3		.2						72	72	
75/ 75					1.0	1.9	1.4	2.2	1.1	.3	.2								51	51	
74/ 73				.2	1.1	1.8	1.1	2.1	.3	.2		.2							43	43	1
72/ 71			.5	.5	2.1	1.4	2.4	1.4	.6	.3									58	58	15
70/ 69		.3	1.4	.6	1.4	2.2	.8	.8	.2										49	49	25
68/ 67		.2	1.9	.8	1.6	2.9	2.2	.3											62	62	66
66/ 65		.6	.8	.8	2.1	1.8	.8	.2											44	44	87
64/ 63	.5	1.6	1.3	1.0	1.1	1.1	.3												43	43	97
62/ 61	.3	.6	.5	1.0	1.6														25	25	94
60/ 59		1.3	.5	.3	.5	.2													17	17	91
58/ 57		.3	.2	.2															4	4	72
56/ 55		.2																	1	1	51
54/ 53		.3																	2	2	24
52/ 51																					4
50/ 49																					1
48/ 47																					
46/ 45																					41
44/ 43																					36
42/ 41																					12
40/ 39																					10
38/ 37																					3
36/ 35																					2
34/ 33																					2
TOTAL	.8	5.4	7.0	5.3	12.4	15.6	13.4	12.3	9.6	9.4	4.0	3.5	1.3	.2					628	628	628
Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	2022211	34031	54.2	16.853	628	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	3400391	45963	73.2	7.617	628			72.9	47.8	21.2	.3	93									
Wet Bulb	2425410	38926	62.0	4.486	628			15.8	.1			93									
Dew Point	1882737	34173	54.4	6.082	628			.3				93									

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG
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																	
96/ 95																								.3								2	2				
94/ 93																																	1	1			
92/ 91																																	3	3			
90/ 89																									.3	.3							6	6			
88/ 87																																	23	23			
86/ 85												.2	.8	1.3	2.4	1.0	1.7	.2														48	48				
84/ 83												.6	1.1	1.0	1.0	.3	.5	.5														28	28				
82/ 81											.6	1.0	.6	1.0	1.6	.2	.3															33	33				
80/ 79										.3	1.3	1.9	1.9	1.7	.5	.3	.2															51	51				
78/ 77								.6	1.1	2.5	1.0	3.6	1.9	.2	.3																	75	75				
76/ 75							.6	1.3	2.2	1.6	1.1	.8					.2															49	49				
74/ 73					.8	1.0	1.0	1.1	2.1			.8																				42	42	1			
72/ 71				.5	1.4	1.1	1.1	2.9	.8	.2	.6																					54	54	15			
70/ 69				.8	1.1	1.6	2.4	1.9	.8	.2																						55	55	27			
68/ 67				1.0	1.0	.6	4.1	1.6	.3																							54	54	68	5		
66/ 65			1.1	1.1	1.3	1.0	1.0	.3	.2																							37	37	97	13		
64/ 63			.8	1.0	.6	1.4	.3	.2																								27	27	90	45		
62/ 61		.3	1.0	.8	.3	.8																										20	20	110	43		
60/ 59		.3	.3	1.3	.3	.5																										17	17	97	65		
58/ 57			.2	.5	.2																											5	5	57	66		
56/ 55			.2																													1	1	50	54		
54/ 53																																		16	68		
52/ 51																																	3	90			
50/ 49																																			89		
48/ 47																																				41	
46/ 45																																				23	
44/ 43																																				9	
42/ 41																																				11	
40/ 39																																				4	
38/ 37																																				5	
TOTAL		.6	3.5	6.8	7.0	9.2	12.5	14.7	11.6	10.1	10.5	4.6	5.7	2.1	.6	.5																		631	631	631	

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1877011	32765	51.9	16.699	631	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	3528777	46927	74.4	7.853	631			77.2	53.2	22.5	.4	93
Wet Bulb	2458634	39294	62.3	4.309	631			16.4	.1			93
Dew Point	1877367	34217	54.2	5.893	631			.7				93

USAF ETAC FORM NO. 44 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point															
88/ 87										.3							.2															3	3			
86/ 85										.2		.3																				9	9			
84/ 83										.2	.2																					11	11			
82/ 81										.6	.9	.8																				18	18			
80/ 79						.2	.3			1.1	.6	.6																			19	19				
78/ 77						.9	.6	2.5	1.4	1.4	.5	.2																			49	49				
76/ 75				.2	.8	.6	2.4	.8	1.4	.5	.2																				40	40				
74/ 73				1.3	.9	2.7	1.6	1.7	.3	.3																					56	56	1			
72/ 71			.8	.9	2.8	.9	2.5	.5	.3																						56	56	4			
70/ 69		.3	1.3	.8	2.2	2.2	1.9	.6	.2																						60	60	21			
68/ 67	.2	.3	1.7	1.7	2.2	3.9	1.1	.8		.2																					77	77	40	7		
66/ 65	.5	1.4	1.4	1.7	1.4	.8																									46	46	71	15		
64/ 63	.3	2.2	1.1	2.7	2.2	1.4	.8	.3																							70	70	96	47		
62/ 61	.2	2.4	1.4	2.8	.8	.3	.2	.2																							52	52	81	39		
60/ 59	.8	1.7	1.1	2.2	.6	.2																									42	42	109	81		
58/ 57	.2	.9	.3	.5																											12	12	88	72		
56/ 55		1.4		.3																											11	11	57	71		
54/ 53		.2	.2																												2	2	46	53		
52/ 51																																		14	82	
50/ 49																																	4	75		
48/ 47																																1	36			
46/ 45																																			21	
44/ 43																																			13	
42/ 41																																			13	
40/ 39																																			5	
34/ 33																																			2	
32/ 31																																			1	
TOTAL	1.6	10.0	9.3	14.8	15.5	14.7	14.7	8.5	5.2	2.7	1.4	1.4	.2																				633	633	633	
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	$\leq 0 F$	$\leq 32 F$	$\leq 47 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total																								
Rel. Hum.	2604975	39161	61.9	16.982	633																															
Dry Bulb	3062667	43809	69.2	6.971	633				58.5	30.1	7.5	93																								
Wet Bulb	2339592	38376	60.6	4.540	633				9.7	.1		93																								
Dew Point	1908443	34545	54.6	6.059	633			.1	1.0			93																								

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

AUG

PACE 1 2100-2300
 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															
82/ 81						.3	.2		.3		.2								1	1															
78/ 77						.3	.2		.3										5	5															
76/ 75						.2	.5												5	5															
74/ 73			.2	.3	.5	.6	.3		.2									13	13																
72/ 71			.9	2.5	.8	.2	.3											30	30																
70/ 69		.3	1.6	.5	1.7	.6	.5	.6										37	37	4															
68/ 67		2.0	3.1	3.3	.9	3.6	.3											85	85	15	7														
66/ 65	.3	2.2	2.0	2.2	1.4	1.6	.3											64	64	41	16														
64/ 63	.3	4.7	3.8	4.2	2.4	.6												102	102	74	44														
62/ 61	.9	3.4	3.0	3.4	1.1	.2	.2											78	78	82	45														
60/ 59	2.2	5.3	4.2	3.4	.9	.6												107	107	90	71														
58/ 57	.5	1.9	4.4	1.3	.6	.2												56	56	111	86														
56/ 55	.3	2.5	1.1	.3	.2													28	28	99	63														
54/ 53	.2	1.4	1.1	.2														18	18	76	58														
52/ 51		.9	.3															8	8	25	97														
50/ 49		.2																1	1	18	88														
48/ 47																				3	31														
46/ 45																					15														
44/ 43																					8														
42/ 41																					7														
40/ 39																					2														
TOTAL	4.7	24.9	24.8	20.1	12.7	9.1	2.2	1.3	.2	.2										638		638													
																			638		638														
Element (X)	$\sum x^2$	$\sum x$	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	3800431	48427	75.9	13.986	638	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total																							
Dry Bulb	2558210	40260	63.1	5.266	638			25.7	3.5	.1		93																							
Wet Bulb	2195586	37322	58.5	4.396	638			2.8				93																							
Dew Point	1946712	35070	55.0	5.456	638			1.0				93																							

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

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP

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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															
68/ 67				.5	.3	.2																											6	6			
66/ 65		.5	.3		.3																												7	7			
64/ 63	.3	1.0	.8	.3	.3																												17	17	10	4	
62/ 61	1.2	3.7	.7	.7	.2																												38	38	21	12	
60/ 59	1.8	6.1	1.3	.5																													59	59	40	44	
58/ 57	1.8	4.5	2.2	.5																													54	54	60	37	
56/ 55	3.2	6.1	3.0	1.0																													80	80	58	56	
54/ 53	3.3	6.1	1.7	.2																													68	68	80	59	
52/ 51	3.0	6.5	.8	.2																													63	63	77	67	
50/ 49	1.5	5.5	2.8	.2																													60	60	67	83	
48/ 47	1.5	3.8	1.0																														38	38	45	55	
46/ 45	1.7	4.8		.2																													40	40	49	54	
44/ 43	2.3	2.8																															31	31	45	43	
42/ 41	2.3	2.2																															27	27	29	57	
40/ 39	.2	.7	.2																														6	6	8	15	
38/ 37	.7	.3																															6	6	10	9	
36/ 35	.3																																2	2	3	3	
34/ 33																																					2
32/ 31																																					2
TOTAL	25.1	54.7	14.8	4.2	1.2	.2																												602	602	602	

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

Element (X)	ΣX^2	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4928749	54213	90.1	8.806	602	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1703853	31799	52.8	6.340	602			9				90
Wet Bulb	1602700	30852	51.2	5.990	602							90
Dew Point	1522362	30048	49.9	6.126	602			3				90

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

SEP

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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	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
68/ 67				.2														1	1																
66/ 65			.3	.2														3	3																
64/ 63	.5	1.0	.2	.7														14	14	6	5														
62/ 61	1.5	2.6	.7	.3														31	21	15	13														
60/ 59	1.5	4.7	.8	.7	.2													48	48	28	20														
58/ 57	1.1	4.7	1.0	.2														43	43	50	36														
56/ 55	3.1	4.7	1.6	.8														63	63	63	50														
54/ 53	4.7	6.4	1.5	.2														78	78	77	67														
52/ 51	4.9	6.0	.7															71	71	80	79														
50/ 49	2.8	7.2	.2															62	62	72	86														
48/ 47	2.1	4.6	.5															44	44	48	54														
46/ 45	3.1	4.1																44	44	43	59														
44/ 43	2.8	2.9																35	35	42	40														
42/ 41	4.6	3.1																47	47	48	55														
40/ 39	1.3	.8																13	13	22	26														
38/ 37	1.0	.5																9	9	9	9														
36/ 35	.5	.2																4	4	7	8														
34/ 33	.3																	2	2	2	5														
TOTAL	35.8	53.9	7.0	3.1	.2													612	612	612	612														
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	5310021	56829	92.9	7.349	612	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90																							
Dry Bulb	1638050	31404	51.3	6.597	612			.1				90																							
Wet Bulb	1566522	30726	50.2	6.254	612							90																							
Dew Point	1510767	30169	49.3	6.210	612							90																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP

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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	O B. W.B	Dry Bulb	Wet Bulb	Dew Point															
72/ 71					.2													1	1																	
68/ 67			.2	.2	.2													3	3																	
66/ 65	.2	.2	.8	.8														12	12	1	1															
64/ 63	.2	1.6	1.1	.5	.2													22	22	7	2															
62/ 61	.3	1.6	1.9	.3														26	26	25	8															
60/ 59	2.4	5.8	3.6	1.6		.2												84	84	34	41															
58/ 57	1.8	4.1	2.1	.5	.5													55	55	62	41															
56/ 55	2.3	5.2	2.6	1.3	.2													71	71	74	56															
54/ 53	1.8	4.7	3.7	.3														65	65	64	54															
52/ 51	3.4	5.2	2.1															66	66	75	81															
50/ 49	3.1	6.3	.5															61	61	86	80															
48/ 47	1.5	5.4	.8	.2														48	48	59	58															
46/ 45	2.9	3.9	.5															45	45	51	81															
44/ 43	1.1	1.8																18	18	35	34															
42/ 41	2.8	1.3	.2															26	26	26	55															
40/ 39	.6	.2																5	5	8	12															
38/ 37	.8																	5	5	6	8															
36/ 35	.2	.3																3	3	2	2															
34/ 33																				1	2															
TOTAL	25.3	47.6	20.1	5.7	1.1	.2												616	616	616	616															
Element (X)	Σx^2	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature																														
Rel. Hum.	4948303	34897	89.1	9.539	616	$\leq 0 F$	$\geq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total																								
Dry Bulb	1763382	32728	53.1	6.318	616			6				90																								
Wet Bulb	1647265	31655	51.4	5.785	616							90																								
Dew Point	1554138	30734	49.9	5.806	616							90																								

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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PAGE 1 0900-1100
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	> 31	Dry Bulb	Wet Bulb	Dew Point														
82/ 81							.3																					2	2						
80/ 79							.5																					1	1						
78/ 77							.3	.3																				7	7						
76/ 75						.3	.3	.2																				5	5						
74/ 73					.3	.3	.5		.2																			8	8						
72/ 71			.2	.5	.8	.2	.3																					12	12						
70/ 69			.5	1.6	1.3	.3	.3																					20	20	2					
68/ 67			1.1	3.1	1.8	1.8	.5	.5																				54	54	8					
66/ 65		.6	1.0	2.4	1.3	.6	.2	.2																				39	39	13	1				
64/ 63		2.1	3.7	2.6	2.3	1.1	.3																					75	75	39	16				
62/ 61	.3	3.1	2.4	3.6	2.3	.3	.3																					77	77	55	22				
60/ 59	.5	2.7	2.9	4.0	1.9	.8																						80	80	68	50				
58/ 57	.6	2.1	4.2	3.7	1.5																							75	75	76	59				
56/ 55	.5	2.1	2.7	2.1	.8	.2																						52	52	77	63				
54/ 53	1.0	1.9	2.6	.8	.2																							40	40	99	45				
52/ 51	.2	1.0	2.7	.5	.2																							28	28	71	79				
50/ 49	.5	2.4	2.4																									33	33	56	62				
48/ 47	.3	1.0																										8	8	37	67				
46/ 45	.2	.3																										3	3	17	52				
44/ 43																														1	39				
42/ 41																															26				
40/ 39																															5				
38/ 37																															1				
36/ 35																															1				
34/ 33																															1				
TOTAL	4.0	19.4	26.5	23.7	15.2	6.8	2.9	1.3	.2																				619		619				
Element (X)	Σ X ²		Σ X		X	X ²	No. Obs.		Mean No. of Hours with Temperature																										
Rel. Hum.	3503937		45797		74.0	3.678		619	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																					
Dry Bulb	228	58			37387			619			15.8	3.3	.3																		90				
Wet bulb	1927108				34392			619			1.5																				90				
Dew Point	1671366				31964			619																							90				

USAFETAC FORM 16-5 (1-56-5) (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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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	22-24	25-26	27	28	29	30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
88/ 87										.2	.2									7	2		
86/ 85								.2	.3		.3									5	5		
84/ 83								.5	.5											6	6		
82/ 81							.3													2	2		
80/ 79						.2	.5	.8		.2										10	10		
78/ 77					.3	.5	2.6	.5	.3											26	26		
76/ 75					.2	1.2	.5	.8	.3											18	18		
74/ 73				.3	.8	1.5	1.5	.8												30	30		
72/ 71				.7	1.0	.8	1.2	.8	.2											28	28		
70/ 69				.8	3.1	2.6	.8	1.2	.3											54	54	4	
68/ 67			1.0	1.8	2.1	2.8	1.7	1.0	.2											64	64	23	
66/ 65	.2		.8	2.0	2.5	1.8	1.8	.3	.2											58	58	41	1
64/ 63	.2	.5	2.5	1.5	2.1	3.5	1.0	.3												70	70	47	15
62/ 61	.3	.3	1.7	1.7	2.3	1.5	.5													50	50	72	21
60/ 59	.2	1.3	2.8	4.3	2.6	2.1	.3													83	83	71	63
58/ 57		1.2	.8	1.3	1.8	.2	.3													34	34	56	57
56/ 55		1.3	1.3	1.7	.8															31	31	88	48
54/ 53	.2	.3	1.2	.8																15	15	86	54
52/ 51	.2	.5	.5																	7	7	43	58
50/ 49	.2	.7	.7	.2																10	10	54	78
48/ 47			.2																	1	1	11	47
46/ 45		.2																		1	1	8	61
44/ 43																						1	38
42/ 41																							44
40/ 39																							13
38/ 37																							2
36/ 35																							1
34/ 33																							3
TOTAL	1.3	6.3	13.4	17.0	19.8	18.7	12.7	6.4	2.3	1.3	.2	.5								605	605	605	605
Element (X)	Z _x '	Z _x	X	X _s	No. Obs.	Mean No. of Hours with Temperature						Total											
Rel. Hum	2485584	37744	62.4	14.719	605	≤ 0 F	≤ 32 F	> 67 F	> 73 F	> 80 F	> 93 F	Total											
Dry Bulb	2598702	39396	65.1	7.429	605			36.4	14.7	3.1		90											
Wet Bulb	2004705	34673	57.3	5.393	605			4.0				90											
Dew Point	1612697	30999	51.2	6.352	605							90											

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
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DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
90/ 89													.2					1	1																
88/ 87												.2						2	2																
86/ 85											.2	.5						12	12																
84/ 83									.2	.3	.2							4	4																
82/ 81							.3		.2									3	3																
80/ 79						.2	.2	.5	.2									6	6																
78/ 77					.2	1.3	2.1	.5	.3									27	27																
76/ 75					.3	1.1	1.3	.6	.5	.2								25	25																
74/ 73				.5	.6	.8	1.6	.8		.2								28	28																
72/ 71			.2	.2	1.8	1.4	1.0	1.0	.5	.3								39	39																
70/ 69			.3	1.0	3.7	1.4	.8	1.4	.8									59	59	4															
68/ 67		.2	.3	2.7	2.6	2.4	2.6	1.4										76	76	33															
66/ 65	.3	.2	1.1	.6	1.4	1.4	2.1	1.0										51	51	43	7														
64/ 63		.8	2.3	1.4	1.3	3.9	1.0	.2										67	67	48	13														
62/ 61		.2	.6	1.6	2.1	2.4	1.3	.6										55	55	81	24														
60/ 59		.2	.8	1.4	4.3	1.6	1.4											62	62	59	55														
58/ 57	.2	1.3	1.0	1.4	1.3	.3	.5	.2										38	38	52	63														
56/ 55		.5	1.4	1.1	.6													23	23	94	48														
54/ 53		1.0	.8	1.4														20	20	91	53														
52/ 51		.3	1.4	.3														13	13	48	51														
50/ 49		.6	.6															8	8	38	78														
48/ 47	.2	.2																2	2	24	70														
46/ 45	.2																	1	1	6	56														
44/ 43																				1	50														
42/ 41																					30														
40/ 39																					16														
38/ 37																					3														
34/ 33																					2														
32/ 31																					1														
30/ 29																					1														
24/ 23																					1														
TOTAL	1.1	6.4	12.5	17.2	17.8	17.0	14.0	7.6	2.7	1.9	.8	.6	.2					622	622	622	622														
Element (X)	Z _x ²	Z _x	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.	2491050	38212	61.4	15.203	622	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	2712704	40794	65.6	7.742	622			40.8	15.6	3.3		90																							
Wet Bulb	2072980	35742	57.5	5.351	622			5.4				90																							
Dew Point	167518	21828	51.2	6.577	622		.4					90																							

USAF ETAC FORM 0-26-5 (O-L-A) 80. SID PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP

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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																			
84/ 83																																		1	1				
82/ 81																																			1	1			
80/ 79																																			2	2			
78/ 77																																			5	5			
76/ 75																																			5	5			
74/ 73																																			9	9			
72/ 71																																			17	17			
70/ 69																																			24	24			
68/ 67																																			38	38	4		
66/ 65																																			47	47	20	3	
64/ 63																																			67	67	40	12	
62/ 61																																			50	50	60	19	
60/ 59																																			91	91	67	67	
58/ 57																																			66	66	58	46	
56/ 55																																			53	53	63	58	
54/ 53																																			36	36	77	57	
52/ 51																																			47	47	73	50	
50/ 49																																			28	28	66	77	
48/ 47																																			13	13	51	52	
46/ 45																																			6	6	16	63	
44/ 43																																			1	1	8	43	
42/ 41																																					4	43	
40/ 39																																						9	
38/ 37																																						1	
36/ 35																																						1	
34/ 33																																						4	
32/ 31																																						1	
30/ 29																																						1	
TOTAL	1.3	22.1	29.7	20.4	13.7	7.7	3.0	1.3	.7																											607	607	607	
Element (X)	Z _X ¹	Z _X	X	X	No. Obs.	Mean No. of Hours with Temperature					Total																												
Rel. Hum.	3418445	44783	73.8	13.743	607	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																											
Dry Bulb	22121	36411	60.0	6.858	607			15.1	3.4	.6		90																											
Wet Bulb	186271	33452	55.1	5.623	607			.6				90																											
Dew Point	1612547	31045	51.1	6.391	607			.3				90																											

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	19-20	21-22	23-24	25-26	27	28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
72/ 71					.2	.2	.2												4	4		
70/ 69				.3	.3	.2													5	5		
68/ 67			.8	.7	.8	.2													15	15		
66/ 65		.7	2.0	1.0	.5														25	25	1	
64/ 63		2.8	2.8	.8	.7														43	43	15	3
62/ 61	.3	4.6	2.3	1.3															52	52	42	22
60/ 59	.5	5.6	3.6	1.5	.5	.2													72	72	63	43
58/ 57	1.2	4.0	4.0	1.3	.8	.2													69	69	67	58
56/ 55	.8	4.6	2.5	1.2	.5														58	58	64	53
54/ 53	.8	5.0	3.0	1.3	.2														62	62	80	56
52/ 51	1.7	4.6	3.8	.2															62	62	58	75
50/ 49	.7	6.1	3.3	.2															62	62	73	81
48/ 47	.3	3.8	1.2	.2															33	33	65	56
46/ 45	.5	2.2																	16	16	35	62
44/ 43	.2	2.0	.3																15	15	22	42
42/ 41	.2	1.2	.2																9	9	11	32
40/ 39	.2																		1	1	6	13
38/ 37																					1	3
36/ 35																						2
34/ 33																						2
TOTAL	7.3	47.3	29.9	10.0	4.5	.8	.2	.2											603	603	603	603
Element (X)	Z _x ¹	Z _x	X	X _s	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.	4326808	50676	84.0	10.629	603	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb	1897031	33613	53.7	6.227	603			3.6				90										
Wet Bulb	1716383	31993	53.1	5.611	603							90										
Dew Point	1579346	20654	50.8	5.910	603							90										

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCF
 MONTH

PAGE 1 0000-0200

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							
78/ 77																											
64/ 63		.2		.2																			2	2			
62/ 61		.2	.7																				5	5	1		
60/ 59		1.0	.5	.7																			13	13	1	2	
58/ 57		1.5		.2																			10	10	14	2	
56/ 55	1.5	2.3	.8																				28	28	19	26	
54/ 53	1.3	2.2	1.7																				31	31	31	17	
52/ 51	2.3	2.8	.7																				35	35	39	34	
50/ 49	1.8	5.6	2.5																				60	60	42	35	
48/ 47	2.0	6.6	1.0																				58	58	57	47	
46/ 45	4.0	7.8	.2																				72	72	77	72	
44/ 43	2.5	6.8	.2																				57	57	65	59	
42/ 41	4.0	8.5	.7																				79	79	63	91	
40/ 39	4.8	2.8	.3																				48	48	68	74	
38/ 37	4.1	2.8	.2																				43	43	49	50	
36/ 35	.8	2.5																					20	20	23	18	
34/ 33	1.3	1.5																					17	17	25	24	
32/ 31	1.2	1.5	.3																				18	18	17	27	
30/ 29		.8																					5	5	8	13	
28/ 27																										2	6
26/ 25		.2																					1	1			
24/ 23	.2																						1	1	2	4	
22/ 21																											2
TOTAL	31.8	57.5	9.6	1.0																				603	604	603	
																								603		603	

Element (X)	Σx'	Σx	X̄	σ _x	No. Obs.	Mean No. of Hours with Temperature																							
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																	
Rel. Hum.	5085006	55182	91.5	7.643	603																								
Dry Bulb	1254249	27191	45.0	7.072	604		3.8	-3	-2																				93
Wet Bulb	1183991	26417	43.8	6.637	603		4.5																						93
Dew Point	1122639	25693	42.6	6.807	603		3.0																						93

USAFETAC FORM 0 26-5 (OL A) 70 64 REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCT
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																	
68/ 67						.2																											1	1					
64/ 63			.2																														1	1					
62/ 61			.3																														2	2					
60/ 59		1.3	.2		.2																												10	10		1			
58/ 57	.2	.6	.3		.2																												8	8		13	7		
56/ 55	1.9	2.1	.3																															27	27		18	20	
54/ 53	1.0	1.9	.3																															20	20		27	19	
52/ 51	1.9	3.8	.6																															40	40		33	21	
50/ 49	3.0	5.4	2.1																															66	66		46	58	
48/ 47	1.9	5.1	1.3																															52	52		53	35	
46/ 45	4.6	7.8	.6																															82	82		71	68	
44/ 43	4.2	5.1	.2																															59	59		81	79	
42/ 41	4.8	5.8																																66	66		58	77	
40/ 39	5.3	1.8	.5																															47	47		69	71	
38/ 37	5.8	3.4	.3																															59	59		52	55	
36/ 35	1.4	1.6																																19	19		30	23	
34/ 33	1.0	2.6																																22	22		25	18	
32/ 31	2.2	2.9																																32	32		27	38	
30/ 29	.3	.6																																6	6		13	22	
28/ 27	.5	.2																																4	4		5	5	
26/ 25	.3																																	2	2		3	5	
24/ 23																																						4	
TOTAL	40.3	52.0	7.2	.3		.2																													625		625		625
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total																											
Rel. Hum.	5445737	58173	93.1	7.069	625	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																											
Dry Bulb	1244240	27534	44.1	7.076	625		6.5	.1				93																											
Wet Bulb	1190844	26948	43.1	6.109	625		7.1					93																											
Dew Point	1140958	26348	42.2	6.958	625		11.0					93																											

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

DATA PROCESSING BRANCH
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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCT

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

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
62/ 61		.5	.2																4	4		
60/ 59		.6	.3																6	6	3	2
58/ 57		.6	.5	.2															8	8	6	3
56/ 55	1.9	2.1	.5																28	28	18	18
54/ 53	1.3	2.4	.8	.2															29	29	31	19
52/ 51	2.1	2.7	.6	.2															35	35	29	30
50/ 49	3.5	5.5	2.1																70	70	58	45
48/ 47	2.1	5.1	.6																49	49	55	47
46/ 45	3.3	8.7	1.4	.2															86	86	71	62
44/ 43	4.6	6.7	.5																74	74	93	81
42/ 41	4.0	8.9	1.1																88	88	66	99
40/ 39	2.4	1.1	.5																25	25	57	62
38/ 37	4.9	2.1	.3																46	46	46	48
36/ 35	3.3	2.1	.2																35	35	37	32
34/ 33	1.4	1.6	.2																20	20	28	25
32/ 31	1.1	1.7																	18	18	21	29
30/ 29		.6																	4	4	5	10
28/ 27	.6	.2																	5	5	6	13
26/ 25	.2																		1	1	1	4
24/ 23																						2
TOTAL	36.6	53.1	9.7	.6															631	631	631	631
Element (X)	Z _X '	Z _X	X	e _s	No. Obs.	Mean No. of h			s with Temperature													
Rel. Hum.	5420890	58286	92.4	7.060	631	≤ 0 F	≤ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total											
Dry Bulb	1273565	28031	44.4	6.707	631		4.1				93											
Wet Bulb	1214839	27381	43.4	6.509	631		4.9				93											
Dew Point	1158833	26705	42.3	6.741	631		8.5				93											

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

DATA PROCESSING BRANCH
 USAF ETAC
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PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCT MONTH

PAGE 1 0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
68/ 67				.5	.2	.2												5	5		
66/ 65				.6	.3	.2												7	7		
64/ 63		.3	.3	.9	.3	.3												14	14	1	
62/ 61		.3	.3	.8	.3													11	11	5	1
60/ 59		1.4	1.1	1.7	.3	.3												31	31	9	2
58/ 57	.3	2.3	2.6	1.1	.5	.2												45	45	25	9
56/ 55	.6	2.0	1.2	1.1	.3	.2												35	35	32	33
54/ 53	.3	2.8	2.3	.8	.6	.2												45	45	56	20
52/ 51	.9	4.0	3.4	.9	.6	.2												65	65	47	36
50/ 49	1.4	6.2	6.0	1.6	1.1	.2												106	106	64	72
48/ 47	.5	6.0	3.9	.6	.8													76	76	83	55
46/ 45	2.3	5.3	1.6	1.4	.5													71	71	97	89
44/ 43	1.4	5.3	.9	.5														52	52	77	73
42/ 41	.5	2.8	1.7	.5														35	35	50	66
40/ 39	2.0	1.2	.3	.3														25	25	52	72
38/ 37	1.9	.5	.2															16	16	33	37
36/ 35	.3	.5																5	5	11	17
34/ 33		.2																1	1	3	36
32/ 31																					15
30/ 29																					8
28/ 27																					3
26/ 25																					1
TOTAL	12.4	41.1	25.9	13.2	5.7	1.6	.2											645	645	645	645
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	4427841	52771	81.8	13.090	645	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1624090	32092	49.8	6.517	645			.7				93									
Wet Bulb	1444338	30288	47.0	5.854	645							93									
Dew Point	1282551	28451	44.1	6.544	645		3.9					93									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCT
 MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26-27	28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																
76/ 75							.2																											1	1			
72/ 71							.3																											2	2			
70/ 69				.2	1.1	.3	.2	.2	.2																									13	13			
68/ 67				.2	.3	1.9	.3	.3																										19	19			
66/ 65				.8	1.6	.3	.5	.2																										21	21			
64/ 63			1.4	1.1	1.6	.3	.3	.2																										31	31	6		
62/ 61		.3	.6	2.1	1.4		.2																											29	29	9		
60/ 59		1.1	2.7	1.7	2.1	1.9	.2	.2																										62	62	25	6	
58/ 57		.6	1.1	3.2	1.4	.8	.5	.3																										50	50	41	17	
56/ 55	.5	1.1	1.0	2.1	2.2	1.4	.2																											53	53	50	25	
54/ 53	.5	1.1	2.4	2.1	1.0	.8																												49	49	48	28	
52/ 51	.2	1.3	4.4	1.9	1.1	.5																												59	59	53	39	
50/ 49	.6	2.4	4.6	1.1	1.3	1.1	.2																											71	71	73	57	
48/ 47	.5	1.4	4.3	1.0	1.3		.2																											54	54	79	46	
46/ 45	.5	4.1	2.2	.8	.5																													51	51	74	66	
44/ 43	.5	3.3	.6	1.0	.2																													35	35	74	56	
42/ 41	.6	1.4	1.0																															19	19	52	106	
40/ 39	1.1	.2																																8	8	34	68	
38/ 37	.3	.2																																3	3	10	30	
36/ 35																																					2	23
34/ 33																																						20
32/ 31																																					19	
30/ 29																																					12	
28/ 27																																					10	
22/ 21																																					1	
18/ 17																																					1	
TOTAL	5.2	18.6	26.3	19.0	17.3	9.4	2.7	1.3	.2																										630	630	630	630
Element (X)	Σx ²		Σx		Σ		Σx		No. Obs.		Mean No. of Hours with Temperature								Total																			
Rel. Hum.	3322434		44678		70.9		5.646		630		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93																					
Dry Bulb	1853222		33854		53.7		7.355		630				5.2	.1			93																					
Wet Bulb	1522725		30741		48.8		6.009		630								93																					
Dew Point	1244344		27640		43.9		7.098		630		6.3						93																					

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCT

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
76/75							.2											1	1		
74/73							.2											3	3		
72/71					.2		.2											2	2		
70/69					.8		.5	.2	.2	.2								11	11		
68/67				.5	.8		1.4	.8	.5									25	25		
66/65			.5	.6	1.3		.6		.6									23	23		
64/63		.2	1.3	1.6	1.6		1.6	.2										40	40	7	
62/61		.5	1.4	1.6	1.1		.3	.3										33	33	14	
60/59		.8	1.4	1.7	1.1	.6	.2											37	37	30	0
58/57		.8	1.1	2.3	2.0	.6	.8											49	49	41	16
56/55	.2	.9	1.6	1.7	1.7	1.6	.2											50	50	45	26
54/53		1.5	2.3	1.9	1.1	.6												48	48	46	27
52/51		2.2	4.2	1.6	.8	.6												60	60	57	45
50/49		3.1	5.2	1.1	1.1	.6	.2											74	74	62	49
48/47	.2	1.9	4.2	1.7	1.3													59	59	81	63
46/45	.8	4.2	1.1	.8	.5													48	48	77	74
44/43	.5	3.0	1.4	1.3														39	39	71	54
42/41	.3	2.7	.3															21	21	46	88
40/39	1.1	.6	.2															12	12	46	74
38/37	.3	.5																5	5	15	23
36/35																				2	32
34/33																					22
32/31																					20
30/29																					9
28/27																					11
20/19																					1
TOTAL	3.3	22.8	26.4	18.3	15.3	9.4	3.1	1.3	.2									640	640	640	640
Element (X)	Z _x ²	Z _x	X	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	3426320	45784	71.5	5.373	640	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	1875824	34286	53.6	7.818	640			6.1	.6			93									
Wet Bulb	1545623	31195	48.7	6.269	640							93									
Dew Point	1268923	28141	44.0	7.027	640		6.0					93									

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000

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	25-25	2-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point																	
68/67				.3																												2	2				
66/65				.2																												1	1				
64/63			.9	.6																											10	10	1				
62/61		.6	.8	.6	.3	.2																									16	16	4				
60/59		2.2	1.9	1.6	.5																										39	39	10	5			
58/57	.2	2.4	1.9	1.6	.9																										44	44	26	14			
56/55	.5	2.0	2.2	.9	.3																										38	38	35	25			
54/53		1.7	1.7	.8																											27	27	38	26			
52/51		3.1	4.1	.9																											52	52	47	26			
50/49	.6	5.0	5.8	.9	.3																										81	81	53	50			
48/47	.3	4.1	3.1	.8	.2																										54	54	70	47			
46/45	1.4	7.2	2.7	1.3																											80	80	87	73			
44/43	.5	6.1	1.6	.8	.2																										58	58	72	67			
42/41	.9	8.3	2.7	.2																											77	77	70	98			
40/39	2.0	1.9	1.6	.2																											36	36	66	86			
38/37	.3	.8	.6																												11	11	29	38			
36/35		.8	.3																												7	7	13	27			
34/33																																	11	15			
32/31			.2																													1	1	1	20		
30/29		.2																														1	1	2	7		
28/27																																			6		
26/25																																			3		
24/23																																			2		
TOTAL	6.8	46.6	32.1	11.5	2.8	.2																													635	635	635
Element (X)	Σx'	Σx	X	σ _x	No. Obs.	Mean No. of Hours with Temperature																															
Rel. Hum.	4393345	52361	82.5	10.930	635	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																									
Dry Bulb	1540941	30987	48.8	6.743	635		.3	.3				93																									
Wet Bulb	1380268	29340	46.2	6.232	635		.4					93																									
Dew Point	1232008	27640	43.5	6.752	635	5.6						93																									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

OCT

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29	30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
64/ 63		.2	.3	.2															4	4				
62/ 61		.3	.3																4	4				
60/ 59		1.1	.6	.5															14	14	5	3		
58/ 57	.2	1.7	.9	.3															20	20	13	7		
56/ 55	.9	3.0	2.3	.5															43	43	23	21		
54/ 53	.9	1.9	1.7	.6															33	33	38	23		
52/ 51	.5	4.1	1.6	.2															40	40	48	21		
50/ 49	1.6	7.2	3.6	.3															81	81	47	62		
48/ 47	.8	6.4	2.2																60	60	57	49		
46/ 45	2.0	8.1	1.3	.2															74	74	82	70		
44/ 43	1.7	7.8	1.3	.2															70	70	77	72		
42/ 41	2.3	7.0	1.9																72	72	66	91		
40/ 39	4.7	3.1	.9																56	56	85	75		
38/ 37	1.3	1.9	.5	.2															24	24	41	43		
36/ 35	.6	2.0	.2																18	18	18	32		
34/ 33	.8	1.3	.2																14	14	22	21		
32/ 31	.6	.8																	9	9	10	31		
30/ 29		.3																	2	2	3	8		
28/ 27		.2																	1	1	2	3		
26/ 25	.2																		1	1	2	4		
24/ 23																						4		
TOTAL	19.1	158.3	19.7	3.0																640		640		
																				640		640		
Element (X)	Σ X²	Σ X	X̄	s_x	No. Obs.	Mean No. of Hours with Temperature						Total												
Ref. Hum.	5054818	56590	88.4	8.936	640	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F													
Dry Bulb	1394248	29562	46.2	6.709	640		1.9					93												
Wet Bulb	1298103	28533	44.6	6.382	640		2.5					93												
Dew Point	1206179	27451	42.9	6.707	640		7.3					93												

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 YEARS

NOV
 MONTH

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

Temp. (F)	WET RULB 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														
60/ 59			.2															1	1																
58/ 57			.2	.2														2	2																
56/ 55		.2	.2	.2														3	3	1															
54/ 53			.2	.2	.2													3	3	2	1														
52/ 51	.2	.2	.5		.2													6	6	4	3														
50/ 49		.9	1.5															14	14	5	2														
48/ 47	.7	1.4	1.0															18	18	19	8														
46/ 45	2.2	6.3	1.2	.2														58	58	32	30														
44/ 43	1.9	6.0	.7															50	50	64	30														
42/ 41	3.4	9.2	3.6	.2														96	96	56	79														
40/ 39	2.2	9.2	1.0	.2														74	74	67	61														
38/ 37	4.1	4.3	1.0															55	55	99	65														
36/ 35	2.6	5.6	.9															50	50	52	65														
34/ 33	4.4	3.2	.9															48	48	64	64														
32/ 31	4.6	3.4																47	47	54	73														
30/ 29	1.5	1.7	.2															20	20	23	35														
28/ 27	3.1	.5																21	21	22	34														
26/ 25	.9	.5																8	8	10	13														
24/ 23	1.0	.2																7	7	7	9														
22/ 21	.5																	3	3	3	7														
20/ 19	.2	.3																3	3	1	5														
18/ 17																				2	1														
16/ 15																					2														
TOTAL	33.4	53.0	12.3	1.0	.3													587	587	587	587														

Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4799732	52818	90.0	8.974	587	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	899290	22660	38.6	6.472	587		16.7					90
Wet Bulb	842235	21953	37.4	6.018	587		18.7					90
Dew Point	776119	21035	35.8	6.173	587		27.4					90

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb	Dew Point															
58/57				.2																											1	1			
56/55		.5																													3	3			
54/53			.5																											3	3	3	1		
52/51		.2	.2	.2																										3	3	2	2		
50/49	.3	.8	1.6		.2																									18	18	8	3		
48/47	1.0	2.2	1.4	.2																										30	30	16	11		
46/45	2.5	4.9	.8	.2																										53	53	39	35		
44/43	3.5	4.9	.6																											57	57	67	38		
42/41	2.2	8.6	2.5																											84	84	55	60		
40/39	4.3	5.6	1.1																											69	69	86	85		
38/37	4.4	4.6	.3																											59	59	76	67		
36/35	2.1	6.7	.6																											59	59	57	46		
34/33	4.8	2.5	.5																											49	49	70	77		
32/31	6.8	4.9																												74	74	69	88		
30/29	2.5	1.3																												24	24	37	49		
28/27	2.4	.8																												20	20	17	25		
26/25	.8	.3																												7	7	10	19		
24/23	.8	.6																												9	9	6	5		
22/21	.5																													3	3	7	7		
20/19	.2	.2																												2	2	1	7		
18/17	.3																													2	2	3	1		
16/15	.2																													1	1	1	3		
14/13																																	1		
TOTAL	39.5	49.5	10.2	.6	.2																										630	630	630		

Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5903258	57556	91.4	8.460	630	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	943595	24031	38.1	6.545	630		20.3					90
Wet Bulb	891665	23383	37.1	6.149	630		21.6					90
Dew Point	831368	22540	35.8	6.296	630		29.3					90

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

NOV MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
60/ 59				.2														1	1					
58/ 57			.3															2	2					
54/ 53			.3															2	2	3				
52/ 51			.5	.2														4	4	1	1			
50/ 49	.3	1.6	1.0	.6														22	22	12	6			
48/ 47	1.3	2.5	.5															27	27	17	15			
46/ 45	1.8	4.6	.3															42	42	36	25			
44/ 43	2.7	6.2	.8	.2														62	62	66	35			
42/ 41	4.3	11.8	1.9															113	113	76	93			
40/ 39	3.0	5.4	1.0															59	59	77	76			
38/ 37	2.2	6.7	.3															58	58	63	59			
36/ 35	1.8	6.2	1.0															56	56	60	47			
34/ 33	5.7	4.0	.2															62	62	81	78			
32/ 31	3.7	4.1	.2															50	50	63	68			
30/ 29	1.0	2.5																27	27	31	51			
28/ 27	2.2	.8																19	19	20	37			
26/ 25	.8	.3																7	7	6	14			
24/ 23	.6	.5																8	8	6	10			
22/ 21	.5	.2																4	4	7	2			
20/ 19	.2	.2																2	2	2	6			
18/ 17																					2			
16/ 15	.2																	1	1	1	2			
14/ 13																					1			
TOTAL	33.1	57.6	8.1	1.1														628	628	628	628			
Element (X)	Z _x ²	Z _x	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.	5226692	57060	90.9	8.207	628	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90												
Dry Bulb	933212	24130	38.4	6.446	628		16.9					90												
Wet Bulb	898755	23447	37.3	6.101	628		19.5					90												
Dew Point	835284	22562	35.9	6.277	628		27.7					90												

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV
 MONTH

PAGE 1 0900-1100
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point																
60/ 59				.2																												1	1			
58/ 57			.2																													1	1			
56/ 55		.3	.3	.2	.3																											7	7			
54/ 53		.5	.3	.3	.3																											5	5	4		
52/ 51		.8	1.6	.3	.2																											18	18	5	2	
50/ 49	.2	2.6	3.6	.3																												41	41	16	9	
48/ 47	1.3	3.0	2.8	.8																												48	48	44	27	
46/ 45	1.8	6.6	2.0	.5	.2																											67	67	54	33	
44/ 43	1.6	9.5	1.6	.7																												82	82	65	55	
42/ 41	1.5	9.8	2.8	.3	.2																											89	89	88	72	
40/ 39	1.8	5.2	2.8	.2	.2																											62	62	82	77	
38/ 37	2.0	5.1	.3																													45	45	69	76	
36/ 35	.8	4.4	.7																													36	36	49	45	
34/ 33	2.6	4.8	.3																													47	47	60	67	
32/ 31	2.8	2.5	.3																													34	34	42	71	
30/ 29	.7	1.3																														12	12	13	36	
28/ 27	1.0	.7	.2																													11	11	10	17	
26/ 25		.3																														2	2	6	9	
24/ 23	.2	.2																														2	2	3	7	
22/ 21																																				3
20/ 19																																				2
18/ 17																																				2
TOTAL	18.2	57.0	20.0	3.8	1.0																												610	610	610	610
Element (X)	Zx ²	Zx	Z	Z ₂	No. Obs.	Mean No. of Hours with Temperature						Total																								
Rel. Hum.	4623579	52745	86.5	10.160	610	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																								
Dry Bulb	1056777	25109	41.2	6.177	610		9.0					90																								
Wet Bulb	968908	24064	39.4	5.674	610		10.9					90																								
Dew Point	870248	22730	37.3	5.961	610		21.7					90																								

USAFETAC FORM 1 JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV
 MONTH

PAGE 1 1200-1400
 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																
64/ 63				.3																													2	2		
60/ 59			.3				.3																										4	4		
58/ 57			.2	.5	.3																											6	6	2		
56/ 55				.8	.5																											8	8	2		
54/ 53	.2	.5	1.8	1.3	.3																											25	25	4	2	
52/ 51		.7	3.2	.8	.2																											29	29	8	7	
50/ 49	.5	1.7	4.1	2.5	.3																											55	55	31	10	
48/ 47	.3	4.1	2.3	2.5	.2																											57	57	58	13	
46/ 45	.8	5.8	4.1	2.8	.2	.2																										84	84	57	44	
44/ 43	1.0	7.0	4.0	2.5	.2	.2																										88	88	84	45	
42/ 41	2.0	7.1	5.0	.8	.2																											91	91	92	101	
40/ 39	.2	2.5	2.7	.2																												33	33	73	69	
38/ 37	1.0	2.7	1.5																													31	31	55	65	
36/ 35	.7	3.6	1.0	.3																												34	34	48	40	
34/ 33	2.5	2.0	.7																													31	31	47	84	
32/ 31	.8	1.3	.3																													15	15	23	45	
30/ 29	.7	.3	.2																													7	7	13	34	
28/ 27	.2	.2																														2	2	4	24	
26/ 25		.2																														1	1	2	6	
24/ 23																																			6	6
22/ 21																																			3	3
20/ 19																																			4	4
18/ 17																																			1	1
TOTAL	10.8	39.6	31.3	15.4	2.2	.7																											603	603	603	603
Element (X)	Zx'	Zx	Zy	Zz	No. Obs.	Mean No. of Hours with Temperature																														
Rel. Hum.	3936498	48124	79.8	2.617	603	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																								
Dry Bulb	1172801	26225	42.7	6.253	603		3.7					90																								
Wet Bulb	1029050	24684	40.9	5.559	603		2.3					90																								
Dew Point	872849	22639	37.5	6.167	603		18.4					90																								

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS NOV MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL								
	0	1-2	3-4	5-6	7-8	9	10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	*31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																				
64/ 63				.2																														1	1							
62/ 61			.2		.2																													2	2							
60/ 59				.2	.7	.3																												6	6	1						
58/ 57			.2	.2	.2																													3	3	1						
56/ 55		.3	.3	.2	.3																													7	7		1					
54/ 53		.2	.7	1.5	.2																													15	15	6	1					
52/ 51		1.0	3.1	.7	.2																													30	30	9	3					
50/ 49	.2	2.6	4.9	2.1	.3																													62	62	27	11					
48/ 47	.5	2.8	5.1	2.0	.2																													64	64	55	18					
46/ 45	.8	7.0	3.8	2.6	.3		.2																											90	90	47	39					
44/ 43	1.8	5.6	2.5	1.8		.2																												72	72	109	54					
42/ 41	1.1	7.2	4.1																															76	76	69	75					
40/ 39	.3	3.0	2.6	.3																														38	38	80	90					
38/ 37	.7	3.8	2.1	.2																														41	41	59	54					
36/ 35	1.0	2.5	1.1																															28	28	45	54					
34/ 33	2.3	2.3	1.1																															35	35	42	68					
32/ 31	2.3	1.8	.7	.2																														30	30	38	71					
30/ 29	.5	.5	.2																															7	7	12	28					
28/ 27	.3																																	2	2	3	19					
26/ 25	.2																																	1	1	2	10					
24/ 23																																					5					
22/ 21																																					3					
20/ 19																																					2					
18/ 17																																					2					
16/ 15																																					2					
TOTAL	12.0	40.5	32.6	11.8	2.5	.5	.2																													610	610	610				
																																							610	610		
Element (X)	$\sum X^2$	$\sum X$	\bar{X}	$\sum X_s$	$\sum X_s^2$	No. Obs.		Mean No. of hours with Temperature						Total																												
Rel. Hum.	4049981	49133	80.5	2326	610	= 0 F	= 32 F	= 67 F	= 7. F	= 80 F	= 93 F	Total	90																													
Dry Bulb	1165488	26374	43.2	6408	610	= 5.9						90																														
Wet Bulb	1026913	24789	40.6	3669	610	= 8.9						90																														
Dew Point	879707	22807	37.4	6144	610	= 21.0						90																														

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV
 MONTH

PAGE 1 1800-2000
 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		
64/ 63				.2																	1	1		
60/ 59					.2	.2															2	2		
58/ 57			.2			.2															2	2	1	
56/ 55		.2	1.0	.3																	9	9		
54/ 53		.2	.3	.2	.2																5	5	4	
52/ 51		.3	.5																		5	5	7	3
50/ 49	.6	2.3	2.9	.2																	37	37	16	14
48/ 47	.3	3.2	3.1	.2																	42	42	33	11
46/ 45	1.0	6.3	3.1	.5	.2																68	68	40	34
44/ 43	1.4	8.1	1.4	1.0	.2																75	75	81	38
42/ 41	2.3	12.4	4.5	.2																	120	120	79	87
40/ 39	1.9	5.6	1.9																		59	59	97	88
38/ 37	1.6	3.7	1.1																		40	40	72	71
36/ 35	2.1	3.4	1.0																		40	40	46	49
34/ 33	2.4	4.7	.5																		47	47	52	58
32/ 31	2.6	2.6	.2																		33	33	49	70
30/ 29	1.0	2.6	.2																		23	23	24	35
28/ 27	.5	.5	.2																		7	7	11	34
26/ 25	.2	.3																			3	3	4	12
24/ 23	.2	.2																			2	2	4	10
22/ 21	.2																				1	1	1	1
20/ 19																								5
18/ 17																								1
TOTAL	18.2	56.4	21.9	2.6	.6	.3																621	621	621
Element (X)	Z _x	Z _y	Z _z	Z _w	Z _v	Z _u	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.	4635239	53263	85.0	10.387	621	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	1061335	25273	40.9	6.304	621		10.0					90												
Wet Bulb	969363	24271	39.1	5.787	621		13.5					90												
Dew Point	863354	22040	36.8	6.132	621		24.3					90												

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

NOV

PAGE 1 2100-2300

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	22-24	25	26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point						
60/ 59			.2																	1	1							
58/ 57			.2	.2																2	2							
56/ 55			.2	.5	.2															5	5	1						
54/ 53			.5																	3	3	1						
52/ 51		.5	.5	.2																7	7	3	1					
50/ 49	1.0	1.9	2.9	.5	.2															40	40	16	10					
48/ 47	1.1	2.1	1.5																	29	29	32	20					
46/ 45	1.9	5.5	2.1																	59	59	38	29					
44/ 43	1.8	7.1	1.1	.5																65	65	66	44					
42/ 41	4.1	10.5	2.8	.3																109	109	79	78					
40/ 39	1.6	6.5	2.4																	65	65	85	76					
38/ 37	3.1	4.5	1.1																	54	54	83	74					
36/ 35	1.5	4.3	.3																	39	39	51	41					
34/ 33	3.1	3.2	.3																	41	41	58	75					
32/ 31	3.7	3.9																		47	47	40	74					
30/ 29	1.9	1.5																		22	22	29	36					
28/ 27	1.6	.8																		15	15	19	24					
26/ 25	1.0	.5																		9	9	9	13					
24/ 23	.2	.2																		2	2	4	13					
22/ 21	.3																			2	2	2	4					
20/ 19	.2																			1	1	1	5					
TOTAL	28.0	53.5	16.0	1.9	.5																617		617					
																				617		617						

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4892886	34624	88.5	9.614	617	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1903932	24570	39.8	6.436	617		14.3					90
Wet Bulb	931805	23697	38.4	5.932	617		15.2					90
Dew Point	849629	22581	36.6	6.138	617		24.7					90

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 YEARS

DEC MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19	20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
58/ 57				.2																	1	1		
56/ 55			.3																		2	2		
54/ 53																							1	
52/ 51		1.0	.2																		7	7	2	
50/ 49	.2	2.1	.5																		17	17	13	5
48/ 47		1.1	.5																		10	10	13	14
46/ 45	.3	2.6	.8	.3																	25	25	9	13
44/ 43	1.1	2.9	.3																		27	27	34	11
42/ 41	1.6	5.6	1.3	.3																	55	55	34	47
40/ 39	.8	4.5	1.6																		43	43	34	29
38/ 37	2.6	7.1	.5																		63	63	61	31
36/ 35	1.8	7.7	.5																		62	62	71	53
34/ 33	4.3	5.3	.6																		64	64	85	87
32/ 31	3.4	4.8	.8																		56	56	56	70
30/ 29	1.9	5.3	.2																		46	46	55	53
28/ 27	2.7	3.4																			38	38	34	43
26/ 25	1.9	1.6	.2																		23	23	28	29
24/ 23	2.6	1.9																			28	28	25	38
22/ 21	1.4	.2																			10	10	21	18
20/ 19	1.4	.5																			12	12	11	25
18/ 17	1.8	.6																			15	15	17	14
16/ 15	.3	.3																			4	4	3	13
14/ 13	.3	.6																			6	6	6	9
12/ 11	.5																				3	3	4	4
10/ 10	.3																				2	2	2	8
8/ 7	.3																				2	2	2	2
6/ 5	.3																				2	2	2	2
4/ 3	.2																				1	1	1	3
2/ 1																								1
TOTAL	32.1	59.0	8.2	.8																			624	624
																						624		624
Element (X)	X ²	Σ X	X	Σ X	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.	4948042	55320	88.7	8,376	624	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	766044	21182	33.9	8,687	624		37.0					93												
Wet Bulb	714932	20484	32.8	8,260	624		39.8					93												
Dew Point	643368	19278	30.9	8,758	624		49.8					93												

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC
MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	*31	DB. W.B.	Dry Bulb	Wet Bulb	Dew Point														
56/ 55			.3															2	2																
54/ 53			.3															2	3	1															
52/ 51			.6	.3														6	6	2															
50/ 49	.6	1.6	.5															17	17	10	10														
48/ 47	.2	1.2	.9															15	15	14	12														
46/ 45	.6	2.8	.5															25	25	14	13														
44/ 43	1.2	3.3	.3															31	31	36	17														
42/ 41	1.6	4.2	.9															43	43	34	37														
40/ 39	.8	3.4	2.2															41	41	35	32														
38/ 37	.9	7.9	.6															61	61	47	28														
36/ 35	2.8	9.9	.3															84	84	94	55														
34/ 33	3.4	6.0	.3															63	63	91	89														
32/ 31	3.7	6.0	.5	.2														67	67	55	95														
30/ 29	2.5	2.9	.2															36	36	50	48														
28/ 27	3.3	2.6	.2															39	39	37	50														
26/ 25	2.2	1.1	.2															22	22	25	29														
24/ 23	2.0	3.1	.2															34	34	22	23														
22/ 21	1.6	.2																11	11	31	23														
20/ 19	.6	.6																8	8	6	22														
18/ 17	.9	.8																11	11	14	15														
16/ 15	.6	.2																5	5	4	8														
14/ 13	.9	.5																9	9	9	15														
12/ 11	.5	.3																5	5	6	7														
10/ 9	.6																	4	4	4	7														
8/ 7	.3																	3	3	3	5														
6/ 5	.2																	1	1	1	3														
4/ 3																					2														
TOTAL	32.1	59.2	8.5	.2														645	646	645	645														
Element (X)	ΣX^1	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	5163262	57468	83.1	8.180	645	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	793760	21920	33.9	8.754	646		36.7					93																							
Wet Bulb	740134	21176	32.8	8.352	645		38.5					93																							
Dew Point	670036	19990	31.0	8.852	645		50.8					93																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION STATION NAME YEARS

DEC
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	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
56/ 55			.3	.3														4	4																
54/ 53		.5	.3															5	5																
52/ 51			.5															3	3	7															
50/ 49	.3	1.9	.5															17	17	7	7														
48/ 47	.3	.8	.5															10	10	18	13														
46/ 45	.5	2.3	.5															21	21	11	16														
44/ 43	.3	3.1	.5	.2														26	26	24	9														
42/ 41	1.6	4.5	2.0	.3														54	54	32	36														
40/ 39	.9	5.6	1.2															50	50	41	29														
38/ 27	1.6	5.6	1.2															54	54	57	39														
36/ 35	2.2	8.4	.5															71	71	68	52														
34/ 33	3.9	5.3	.8															64	64	92	74														
32/ 31	3.1	6.6	.3															64	64	69	81														
30/ 29	2.7	2.7	.2															35	35	46	61														
28/ 27	4.4	3.1																48	48	44	57														
26/ 25	1.2	1.7																19	19	21	32														
24/ 23	2.7	2.2	.3															33	33	27	35														
22/ 21	1.2	.6																12	12	22	16														
20/ 19	.6	.9																10	10	10	24														
18/ 17	1.2	.6																12	12	16	6														
16/ 15	.5	.3																5	5	3	13														
14/ 13	.8	.9																11	11	13	13														
12/ 11	.6	.2																5	5	5	6														
10/ 9	.2																	1	1	1	14														
8/ 7	.5																	3	3	3	1														
6/ 5	.6																	4	4	4	6														
2/ 1																					1														
TOTAL	31.8	57.9	9.5	.8														641	641	641	641														
Element (X)	Z _x ¹	Z _x	X	X	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.	5076446	56790	88.6	8.412	641	≤ 0 F	≤ 32 F	≥ 67 F	≥ 71 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	777776	21586	32.7	3.914	641		38.0					93																							
Wet Bulb	725006	20866	32.6	3.457	641		41.2					93																							
Dew Point	650721	19017	30.6	3.871	641		53.1					93																							

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRAKFKURT 67-76

YEARS

DEC
 MONTH

PAGE 1 0900-1100
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
56/ 55			.2	.5														4	4																
54/ 53		.5	.3	.2														6	6																
52/ 51		.8	.5															8	8	7															
50/ 49	.2	1.1	.3															10	10	14	13														
48/ 47	.2	1.9	1.7	.2														25	25	7	10														
46/ 45	.5	4.3	.8															36	36	23	15														
44/ 43	.6	2.9	1.6	.3														35	35	44	21														
42/ 41	.6	2.0	1.6															53	53	26	25														
40/ 39		5.4	1.9															47	47	54	42														
38/ 37	1.9	7.4	1.9															72	72	70	53														
36/ 35	.9	7.1	2.0	.2														66	66	64	50														
34/ 33	1.7	5.7	.5															51	51	82	66														
32/ 31	3.4	5.7	1.1	.2														67	67	63	94														
30/ 29	2.6	2.8																35	35	46	58														
28/ 27	3.1	3.4	.3															44	45	41	43														
26/ 25	1.6	1.7	.3															23	23	28	32														
24/ 23	1.2	1.6																18	19	21	30														
22/ 21	.8	1.4																14	14	18	27														
20/ 19	.6	1.1																11	11	13	11														
18/ 17		.6																4	4	8	17														
16/ 15	.6	.6																8	8	8	10														
14/ 13	.3	.3																4	4	4	15														
12/ 11	.5																	3	3	3	6														
10/ 9	.2																	1	1	1	6														
8/ 7																					1														
TOTAL	21.4	62.5	14.7	1.4															645		645														

Element (X)	$\sum x^2$	$\sum x$	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4858596	35688	86.3	6.865	645	≤ 0 F	≤ 32 F	≥ 47 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	850219	22835	35.3	8.289	647		33.6					93
Wet Bulb	780988	21868	32.9	7.839	645		36.6					93
Dew Point	688804	20370	31.6	8.405	645		50.5					93

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC

STATION

STATION NAME

YEARS

MONTH

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	≥31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																	
56/ 55		.2	.9																														7	7					
54/ 53		.3	.6																															6	6	4			
52/ 51		.6	.9																															10	10	7	1		
50/ 49		.8	.9	.6																															15	15	9	11	
48/ 47	.2	1.7	1.7	.3																															25	25	15	8	
46/ 45	.5	3.3	2.7	.9																															47	47	23	16	
44/ 43	.2	3.2	1.1	.6																															32	32	41	22	
42/ 41	.3	7.1	5.4	.5																															84	84	36	25	
40/ 39	.8	6.2	2.1	.5																															60	60	66	47	
38/ 37	.9	5.7	2.4	.9																															63	63	79	58	
36/ 35	.9	6.2	1.7	.3																															58	58	67	51	
34/ 33	1.6	4.6	1.9	.2	.3																														54	54	68	75	
32/ 31	2.4	4.4	.9	.5																															52	52	66	73	
30/ 29	1.1	2.4	.9																																28	28	36	51	
28/ 27	2.1	4.3	.6																																44	44	44	49	
26/ 25	.6	1.4	.3																																15	15	30	35	
24/ 23	.5	2.4																																	18	18	13	40	
22/ 21	.2	1.3																																	9	9	18	17	
20/ 19		.2																																	1	1	5	16	
18/ 17	.3	.2																																	3	3	4	13	
16/ 15		.2																																	1	1	1	12	
14/ 13		.2																																	1	1	1	8	
12/ 11																																						3	
10/ 9																																						2	
TOTAL	12.5	56.6	25.3	5.4	.3																														633	633	633	633	
Element (X)	Σx'	Σx	X	Σx	Σx	No. Obs.	Mean No. of Hours with Temperature						Total																										
Rel. Hum.	4337436	51948	82.1	10.839	633	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																											
Dry Bulb	910722	23536	37.2	7.507	633		25.3					93																											
Wet Bulb	815764	22276	35.2	7.099	633		32.0					93																											
Dew Point	690096	20286	32.0	7.954	633		46.9					93																											

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

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC

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
58/ 5			.3															2	2		
56/ 35			.3															2	2		
54/ 53			.3															5	5	4	
52/ 51			.8															10	10	5	
50/ 49		1.2	1.8	.2														21	21	10	13
48/ 47	.2	2.0	1.7		.2													26	26	17	10
46/ 45	.5	3.1	1.1	.2														31	31	21	18
44/ 43	.3	5.2	1.4	.5														48	48	40	11
42/ 41	.2	5.5	3.2	.2														59	59	42	28
40/ 39	.5	4.9	2.9	.3														56	56	52	47
38/ 37	.5	7.2	1.7															61	61	70	53
36/ 35	1.7	8.2	1.7	.3														77	77	74	59
34/ 33	1.4	6.5	1.8															63	63	89	65
32/ 31	2.2	5.1	1.5	.5														60	60	61	105
30/ 29	.9	4.0	.8															37	37	40	49
28/ 27	2.5	3.8	.6	.2														46	46	56	44
26/ 25	.8	1.1	.3															14	14	26	45
24/ 23	.2	1.7																12	12	12	34
22/ 21	.2	.6																5	5	12	13
20/ 19	.2	.8																6	6	7	14
18/ 17	.6	.3																6	6	9	9
16/ 15																					16
14/ 13	.3	.2																3	3	3	9
12/ 11																					6
10/ 9																					2
TOTAL	12.8	62.5	22.5	2.2	.2													650	650	650	650
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.	4580225	94187	83.4	9.848	650	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F										
Dry Bulb	911117	23845	36.7	7.486	650		27.0					93									
Wet Bulb	823444	22668	34.9	7.122	650		32.3					93									
Dew Point	706527	20801	22.0	7.935	650		49.5					93									

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000

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															
58/ 57			.2	.3																												3	3		
54/ 53			.5																													3	3		
52/ 51		.5	.6																													7	7	2	
50/ 49		.9	.9																													12	12	9	6
48/ 47	.2	1.7	.5	.3																												17	17	12	10
46/ 45	.3	2.1	.5	.2																												19	19	16	11
44/ 43	.3	3.5	.8	.3																												31	31	24	13
42/ 41	.8	8.2	3.2																													77	77	35	28
40/ 39	1.1	4.9	1.3																													46	46	59	47
38/ 37	1.3	6.5	.5																													52	52	62	49
36/ 35	1.1	7.9	1.4																													66	66	60	48
34/ 33	3.6	6.2	1.7																													73	73	87	66
32/ 31	1.9	6.3	.3																													54	54	67	81
30/ 29	1.3	3.8	.5	.2																												36	36	47	59
28/ 27	3.6	4.7	.5																													56	56	48	53
26/ 25	.9	1.1	.3																													15	15	28	42
24/ 23	1.6	2.2	.2																													25	25	20	35
22/ 21	.6	1.4	.2																													14	14	20	11
20/ 19	.6	.8																														9	9	13	15
18/ 17	.3	.6																														6	6	8	21
16/ 15	.3																															2	2	4	15
14/ 13	.3	.2																														3	3	3	6
12/ 11	.3																															2	2	2	6
10/ 9	.3																															2	2	2	6
8/ 7	.3																															2	2	2	2
6/ 5																																			2
TOTAL	21.263.6	13.9	1.3																													632	632	632	632
Element (X)	ΣX^2	ΣX	\bar{X}	S_x	No. Obs.	Mean No. of Hours with Temperature					Total																								
Rel. Hum.	4741929	54453	86.2	8.929	632	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb	807871	22023	34.8	8.006	632		33.3					93																							
Wet Bulb	742501	21129	33.4	7.966	632		38.8					93																							
Dew Point	651928	19626	31.1	8.204	632		52.1					93																							

USAF ETAC FORM 16-61 (OL A) 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC

PAGE 1 2100-2300

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		
56/ 55			.5															3	3				
54/ 53																					1		
52/ 51		.6	.3															6	6		3		
50/ 49	.2	2.8	.8	.2														25	25		9	8	
48/ 47		1.3	.8															13	13		18	14	
46/ 45	.5	1.7	.8	.3														21	21		14	12	
44/ 43	.5	3.2	.2	.2														25	25		23	13	
42/ 41	1.1	7.9	1.9															69	69		33	31	
40/ 39	.3	5.4	2.4															51	51		57	41	
38/ 37	1.9	6.2	.9															57	57		68	46	
36/ 35	.5	9.1	.3															63	63		65	39	
34/ 33	3.8	4.9	.9															61	61		87	77	
32/ 31	3.9	6.9	.6															73	73		60	109	
30/ 29	1.4	3.6	.3															34	34		50	46	
28/ 27	3.9	2.7	.2															43	43		39	52	
26/ 25	1.7	.8																16	16		27	34	
24/ 23	1.1	2.2																21	21		16	23	
22/ 21	.5	.8																8	9		16	15	
20/ 19	.8	1.1																12	12		12	14	
18/ 17	2.4	.6																19	19		22	15	
16/ 15	.2																	1	1		1	23	
14/ 13	.5	.5																6	6		5	8	
12/ 11		.2																1	1		2	4	
10/ 9	.3																	2	2		2	3	
8/ 7	.2																	1	1		1	2	
6/ 5	.3																	2	2		2	2	
4/ 3	.2																	1	1		1	2	
2/ 1																						1	
TOTAL	26.06	2.51	0.9	.6														634	635		634	634	
Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total												
Rel. Hum.	4933396	55678	87.8	8.332	634	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93											
Dry Bulb	805719	21967	34.6	8.499	634		35.9					93											
Wet Bulb	746494	21150	33.4	8.042	634		37.6					93											
Dew Point	667138	19874	31.3	8.469	634		51.8					93											

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

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

STATION	STATION NAME	YEARS												
HRS. (L.S.T)		JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG.	SEP	OCT.	NOV.	DEC.	ANNUAL
00-02	MEAN	33.7	34.2	37.0	42.4	50.2	55.7	60.0	59.6	52.8	45.0	38.6	33.9	45.3
	S. D.	8.586	6.233	7.414	6.887	6.564	6.724	5.831	5.127	6.340	7.072	6.472	8.687	11.885
	TOTAL OBS	627	577	626	594	617	605	611	614	602	604	587	624	7288
03-05	MEAN	33.2	33.6	35.6	40.8	48.5	54.2	58.2	57.7	51.3	44.1	38.1	33.9	44.0
	S. D.	9.037	6.463	7.395	7.018	6.608	6.457	5.605	5.210	6.597	7.076	6.545	8.754	11.513
	TOTAL OBS	647	580	641	610	629	601	615	629	612	625	630	646	7465
06-08	MEAN	33.1	33.2	36.4	43.4	52.8	58.8	62.4	61.0	53.1	44.4	38.4	33.7	45.9
	S. D.	9.130	6.349	7.387	6.864	6.274	6.452	6.273	5.642	6.318	6.707	6.446	8.914	12.834
	TOTAL OBS	640	579	642	623	635	620	621	634	616	631	628	641	7510
09-11	MEAN	35.1	36.8	42.3	50.3	59.7	65.1	69.4	68.5	60.4	49.5	41.2	35.3	51.2
	S. D.	8.594	5.958	7.533	7.512	7.359	7.882	7.947	6.803	6.364	6.517	6.177	8.289	14.510
	TOTAL OBS	638	586	642	622	638	623	625	651	619	645	610	647	7546
12-14	MEAN	37.5	40.3	46.6	54.6	63.3	68.8	73.2	73.2	65.1	53.7	43.7	37.2	54.7
	S. D.	7.834	5.990	8.345	8.911	8.359	8.913	8.761	7.617	7.429	7.355	6.253	7.507	15.263
	TOTAL OBS	634	582	647	616	630	604	599	628	605	630	603	633	7411
15-17	MEAN	37.8	40.7	47.6	55.3	64.2	69.3	74.4	74.4	65.6	53.6	43.2	36.7	55.2
	S. D.	7.662	5.777	8.816	9.072	8.517	9.100	8.713	7.853	7.742	7.810	6.408	7.486	15.674
	TOTAL OBS	626	585	634	624	627	608	620	631	622	640	610	650	7477
18-20	MEAN	35.5	37.4	43.3	51.1	60.2	65.8	70.8	69.2	60.0	48.8	40.9	34.8	51.4
	S. D.	8.191	5.466	7.941	8.277	7.680	8.708	8.040	6.971	6.858	6.743	6.304	8.006	14.820
	TOTAL OBS	647	590	646	606	632	625	612	633	607	635	621	632	7486
21-23	MEAN	34.8	35.6	39.6	46.0	54.3	60.0	64.3	63.1	55.7	46.2	39.8	34.6	47.8
	S. D.	8.598	5.693	7.475	7.016	6.298	7.223	6.205	5.266	6.227	6.709	6.436	8.499	12.780
	TOTAL OBS	648	592	627	598	636	606	611	638	603	640	617	635	7451
ALL HOURS	MEAN	35.1	36.8	41.1	48.0	56.7	62.2	66.6	65.8	58.0	48.2	40.5	35.0	49.5
	S. D.	8.631	6.569	8.917	9.337	9.157	9.470	9.290	8.720	8.540	7.908	6.682	8.367	14.323
	TOTAL OBS	5107	4671	5105	4893	5044	4892	4914	5058	4886	5050	4906	5108	59634

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DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION	STATION NAME	YEARS												
HRS. (L.S.T.)		JAN.	FEB	MAR.	APR.	MAY	JUN	JUL	AUG	SEP.	OCT	NOV.	DEC	ANNUAL
00-02	MEAN	32.6	32.8	35.1	39.8	47.8	52.8	56.9	56.8	51.2	43.8	37.4	32.8	43.3
	S. D.	8.157	5.778	7.034	6.226	5.979	5.730	5.116	4.740	5.990	6.657	6.018	8.260	11.118
	TOTAL OBS	627	577	625	594	617	605	611	614	602	603	587	624	7286
03-05	MEAN	32.3	32.5	34.2	38.8	46.6	51.9	55.9	55.6	50.2	43.1	37.1	32.8	42.5
	S. D.	8.631	6.024	7.076	6.378	6.165	5.622	5.188	5.000	6.254	6.809	6.149	8.352	10.982
	TOTAL OBS	647	579	641	609	629	601	615	629	612	625	630	645	7462
06-08	MEAN	32.1	32.1	34.7	40.4	49.3	54.5	58.2	57.6	51.4	43.4	37.3	32.6	43.6
	S. D.	8.729	5.882	6.916	6.101	5.424	5.040	4.864	4.704	5.785	6.509	6.101	8.457	11.601
	TOTAL OBS	640	579	642	622	635	620	621	634	616	631	628	641	7509
09-11	MEAN	33.8	34.7	38.5	44.3	52.7	57.3	61.0	60.9	55.6	47.7	39.4	33.9	46.6
	S. D.	8.175	5.441	6.601	5.787	5.537	5.235	4.987	4.397	5.131	5.854	5.674	7.839	11.786
	TOTAL OBS	638	586	642	622	638	623	625	651	619	645	610	645	7544
12-14	MEAN	35.5	36.7	40.8	46.2	53.7	58.3	61.8	62.0	57.3	48.8	40.9	35.2	48.1
	S. D.	7.376	5.178	6.774	6.024	5.327	5.372	4.893	4.486	5.393	6.009	5.559	7.099	11.464
	TOTAL OBS	634	582	647	616	630	604	599	628	605	630	603	633	7411
15-17	MEAN	35.9	37.0	41.3	46.4	54.2	58.7	62.3	62.3	57.5	48.7	40.6	34.9	48.3
	S. D.	7.276	5.072	6.947	5.965	5.382	5.189	4.813	4.309	5.551	6.269	5.665	7.122	11.565
	TOTAL OBS	626	584	634	624	628	608	620	631	622	640	610	650	7475
18-20	MEAN	34.1	35.0	39.0	44.5	52.8	57.5	61.2	60.6	55.1	46.2	39.1	33.4	46.5
	S. D.	7.867	5.135	6.934	5.908	5.410	5.324	4.931	4.540	5.623	6.232	5.787	7.566	11.755
	TOTAL OBS	646	589	646	606	632	625	612	633	607	635	621	632	7484
21-23	MEAN	33.6	33.9	36.9	41.9	50.4	55.2	59.1	58.5	53.1	44.6	38.4	33.4	44.9
	S. D.	8.187	5.351	7.077	5.973	5.456	5.359	4.786	4.396	5.611	6.382	5.932	8.042	11.347
	TOTAL OBS	648	592	627	598	636	606	611	638	603	640	617	634	7450
ALL HOURS	MEAN	33.7	34.3	37.6	42.8	50.9	55.8	59.4	59.3	53.9	45.7	38.8	33.6	45.5
	S. D.	8.168	5.761	7.384	6.632	6.199	5.865	5.429	5.134	6.262	6.698	6.025	7.904	11.641
	TOTAL OBS	5106	6668	5104	4891	5043	4892	4914	5058	4886	5049	4906	5104	59621

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION		STATION NAME												YEARS
HRS (L.S.T.)		JAN	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	30.7	30.5	32.0	36.3	45.5	50.4	54.5	54.5	49.9	42.6	35.8	30.9	41.1
	S.D.	8.586	6.304	7.968	6.805	6.492	5.784	5.653	5.390	6.126	6.807	6.173	8.758	11.426
	TOTAL OBS	627	577	625	594	617	605	611	614	602	603	587	624	7286
03-05	MEAN	30.5	30.4	31.7	36.0	44.8	50.0	54.2	54.0	49.3	42.2	35.8	31.0	40.8
	S.D.	9.138	6.488	7.880	6.851	6.477	5.604	5.648	5.562	6.210	6.958	6.296	8.855	11.355
	TOTAL OBS	647	579	641	609	629	601	615	629	612	625	630	645	7462
06-08	MEAN	30.4	30.0	31.9	36.7	46.0	51.0	55.0	54.9	49.9	42.3	35.9	30.6	41.2
	S.D.	9.150	6.308	7.552	6.733	6.085	5.430	5.557	5.324	5.806	6.741	6.277	8.871	11.586
	TOTAL OBS	640		642	622	635	620	621	634	616	631	628	641	7509
09-11	MEAN	31.7	31.4	33.2	37.5	46.4	51.2	55.3	55.6	51.6	44.1	37.3	31.6	42.3
	S.D.	8.781	6.177	7.787	6.787	6.510	5.959	5.698	5.374	5.802	6.544	5.981	8.405	11.401
	TOTAL OBS	638	586	642	622	638	623	625	651	619	645	610	645	7544
12-14	MEAN	32.5	31.5	33.1	37.1	45.4	50.5	54.1	54.4	51.2	43.9	37.5	32.0	41.9
	S.D.	8.246	6.447	8.416	7.189	6.697	6.417	5.877	6.082	6.352	7.098	6.167	7.954	11.102
	TOTAL OBS	634	582	647	616	630	604	599	628	605	630	603	633	7411
15-17	MEAN	33.0	31.8	33.3	36.6	45.5	50.8	54.4	54.2	51.2	44.0	37.4	32.0	42.0
	S.D.	8.131	6.471	8.560	7.531	6.719	6.425	6.050	5.895	6.577	7.027	6.144	7.935	11.113
	TOTAL OBS	626	584	634	624	626	608	620	631	622	640	610	650	7475
18-20	MEAN	31.8	31.4	33.2	36.9	46.2	51.1	54.6	54.8	51.1	43.5	36.8	31.1	41.8
	S.D.	8.588	6.163	8.377	7.223	6.639	6.192	6.233	6.059	6.391	6.752	6.132	8.204	11.386
	TOTAL OBS	646	589	646	606	632	625	612	633	607	635	621	632	7484
21-23	MEAN	31.6	31.0	33.0	37.0	46.7	51.5	55.2	55.0	50.8	42.8	36.6	31.3	41.9
	S.D.	8.667	6.184	8.319	6.830	6.310	5.652	5.634	5.436	5.910	6.707	6.138	8.469	11.426
	TOTAL OBS	648	592	627	598	636	606	611	638	603	640	617	634	7450
ALL HOURS	MEAN	31.5	31.0	32.7	36.8	45.5	50.8	54.7	54.7	50.6	43.2	36.6	31.3	41.6
	S.D.	8.707	6.340	8.132	7.009	6.515	5.957	5.810	5.666	6.197	6.865	6.198	8.447	11.360
	TOTAL OBS	5106	4668	5104	4891	5042	4892	4914	5058	4886	5049	4906	5104	59621

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 ALL
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.9	99.9	98.7	93.7	78.6	44.2	87.1	5106
FEB		100.0	100.0	99.9	99.5	97.9	92.1	78.8	59.8	29.9	81.4	4668
MAR		100.0	99.9	99.4	96.7	89.9	78.1	60.8	40.1	18.0	73.9	5104
APR		100.0	99.9	97.8	90.0	78.9	65.1	49.2	30.8	13.5	68.0	4891
MAY		100.0	100.0	98.7	92.2	80.9	66.6	53.5	34.9	17.6	69.9	5043
JUN		100.0	100.0	97.5	92.0	80.3	66.8	52.4	33.0	16.6	69.4	4892
JUL		100.0	99.4	97.9	92.0	78.5	64.3	50.1	32.8	16.0	68.7	4914
AUG		100.0	100.0	98.4	91.7	80.9	66.9	53.0	35.8	19.7	70.3	5058
SEP		100.0	100.0	99.9	98.1	92.8	82.5	70.6	51.4	31.6	78.5	4886
OCT		100.0	100.0	100.0	99.4	97.2	91.8	83.8	65.9	42.4	84.0	5049
NOV		100.0	100.0	100.0	99.9	99.6	97.6	90.3	73.9	45.9	86.7	4906
DEC		100.0	100.0	100.0	100.0	99.9	98.7	93.3	78.3	41.5	86.5	5104
TOTALS		100.0	99.9	99.1	96.0	89.7	80.8	69.1	51.3	28.1	77.0	59621

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 DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-75

MAR
MON, H

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%		
MAR	00-02	100.0	100.0	100.0	100.0	99.5	97.1	84.5	59.7	28.0	82.4	625
	03-05	100.0	100.0	100.0	100.0	99.5	98.6	93.0	73.2	38.5	85.7	641
	06-08	100.0	100.0	100.0	100.0	99.7	98.9	89.4	65.4	31.5	84.0	642
	09-11	100.0	100.0	99.8	98.3	92.4	76.9	51.7	27.6	9.8	71.3	642
	12-14	100.0	99.8	98.3	90.9	73.7	48.7	26.7	13.8	5.1	61.2	647
	15-17	100.0	99.5	96.8	87.4	68.3	45.4	24.8	12.9	4.4	59.7	634
	18-20	100.0	100.0	100.0	97.1	87.6	68.1	46.7	24.3	8.7	68.9	646
	21-23	100.0	100.0	100.0	99.7	98.4	91.1	69.5	43.9	17.7	77.7	627
TOTALS		100.0	99.9	99.4	96.7	89.9	78.1	60.8	40.1	18.0	73.9	5104

2
DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT
STATION STATION NAME

67-76

PERIOD

APR
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%			
APR	00-02	100.0	100.0	100.0	100.0	98.7	91.9	77.4	51.7	22.1	78.5	594
	03-05	100.0	100.0	100.0	100.0	99.8	96.1	86.4	66.8	31.4	83.6	609
	06-08	100.0	100.0	100.0	99.7	97.3	89.1	71.1	45.8	20.3	77.9	622
	09-11	100.0	100.0	99.4	93.6	78.1	56.3	31.4	13.8	6.1	63.3	622
	12-14	100.0	99.7	94.3	75.2	53.6	32.1	19.8	8.9	3.4	54.3	616
	15-17	100.0	99.2	91.3	68.4	45.4	30.3	20.5	10.3	3.8	52.4	624
	18-20	100.0	100.0	97.7	83.8	66.3	48.5	31.4	18.3	6.9	61.0	606
	21-23	100.0	100.0	100.0	99.5	91.8	76.6	55.7	30.6	13.7	72.2	598
TOTALS		100.0	99.9	97.8	90.0	78.9	65.1	49.2	30.8	13.5	68.0	4891

DATA PROCESSING BRANCH
 ETAC/USAF
 AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032
STATION

RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

67-75
PERIOD

MAY
MONTH

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

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.8	99.8	99.7	95.5	88.5	68.2	34.7	84.3	617
	03-05	100.0	100.0	100.0	100.0	100.0	98.9	93.5	76.2	47.5	87.3	629
	06-08	100.0	100.0	100.0	99.8	98.6	89.4	73.7	44.9	23.5	78.5	635
	09-11	100.0	100.0	100.0	95.1	79.3	52.5	32.3	14.3	4.4	63.1	638
	12-14	100.0	100.0	96.0	78.9	53.3	30.0	17.5	8.6	3.2	54.3	630
	15-17	100.0	100.0	94.7	75.1	47.3	32.1	20.1	9.7	3.5	53.5	626
	18-20	100.0	100.0	99.1	89.1	72.0	48.7	33.4	16.9	6.8	62.1	632
	21-23	100.0	100.0	100.0	99.8	96.9	85.8	68.7	40.7	17.1	76.4	636
TOTALS		100.0	100.0	98.7	92.2	80.9	66.6	53.5	34.9	17.6	69.9	5043

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-75 JUN 1967
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%		
JUN	00-02	100.0	100.0	100.0	100.0	99.7	95.7	84.1	60.2	33.4	83.1	605
	03-05	100.0	100.0	100.0	100.0	99.5	97.7	91.7	70.7	44.4	86.3	601
	06-08	100.0	100.0	99.8	98.7	96.1	87.4	72.1	40.6	15.6	70.5	620
	09-11	100.0	100.0	97.8	92.9	77.5	54.1	32.3	14.6	4.7	62.8	623
	12-14	100.0	99.2	93.7	80.5	54.8	32.8	19.2	9.1	2.8	54.7	604
	15-17	100.0	100.0	92.1	77.0	52.1	35.5	23.4	12.7	4.3	55.0	608
	18-20	100.0	100.0	96.5	88.0	68.6	49.3	32.5	19.4	7.	61.9	625
	21-23	100.0	100.0	99.8	98.5	93.9	81.7	63.5	36.6	20.1	75.1	606
	TOTALS		100.0	100.0	97.5	92.0	80.3	66.8	52.4	33.0	16.6	69.4

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

JUL
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	99.7	97.5	95.3	87.0	62.4	30.1	62.9	611
	03-05	100.0	100.0	100.0	99.7	98.9	96.6	94.3	77.2	47.3	87.0	615
	06-08	100.0	100.0	99.7	97.9	95.0	90.2	74.9	47.0	19.5	78.1	621
	09-11	100.0	99.8	97.0	93.3	80.3	53.3	29.8	14.9	4.5	62.9	625
	12-14	100.0	98.5	95.0	81.5	52.4	28.9	15.0	8.5	3.2	53.6	599
	15-17	100.0	97.7	95.2	76.3	43.9	25.0	14.7	9.2	0.5	52.1	620
	18-20	100.0	99.0	96.7	89.9	64.9	40.8	23.2	13.6	0.4	59.0	612
	21-23	100.0	100.0	99.2	97.7	94.8	84.0	61.4	29.3	13.3	73.8	611
TOTALS		100.0	99.4	97.9	92.0	78.5	64.3	50.1	32.8	16.0	68.7	4914

2

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT STATION NAME 67-76 PERIOD SEP MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	100.0	100.0	99.3	97.2	84.7	56.6	90.1	602
	03-05	100.0	100.0	100.0	100.0	100.0	99.8	99.2	92.8	72.2	92.9	612
	06-08	100.0	100.0	100.0	100.0	100.0	99.5	96.3	80.2	54.1	89.1	616
	09-11	100.0	100.0	100.0	99.4	95.3	82.4	61.4	31.7	14.1	74.0	619
	12-14	100.0	100.0	99.7	94.2	79.2	50.4	29.6	12.4	4.6	62.4	605
	15-17	100.0	100.0	99.5	91.6	74.0	49.4	28.3	11.1	4.7	61.4	622
	18-20	100.0	100.0	100.0	99.3	94.1	82.5	62.6	34.1	12.2	73.8	607
	21-23	100.0	100.0	100.0	100.0	99.8	97.0	90.0	64.3	34.2	84.0	603
TOTALS		100.0	100.0	99.9	98.1	92.8	82.5	70.6	51.4	31.6	78.5	4886

U S AIR FORCE
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APPLICATIONS CENTER

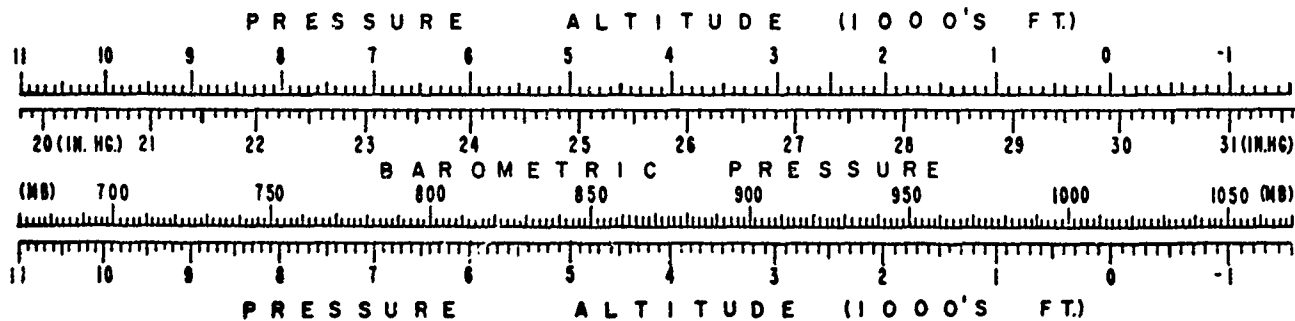
PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

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



DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 71-76

STATION	STATION NAME	YEARS												
HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00	MEAN	29.667	29.651	29.607	29.561	29.542	29.581	29.594	29.625	29.619	29.679	29.651	29.692	29.621
	S D	.250	.325	.249	.186	.173	.165	.138	.131	.200	.278	.269	.347	.238
	TOTAL OBS	160	148	156	151	160	159	158	166	163	139	130	160	1850
03	MEAN	29.666	29.639	29.592	29.543	29.541	29.578	29.588	29.618	29.609	29.622	29.613	29.699	29.610
	S D	.252	.324	.259	.188	.184	.164	.136	.137	.207	.298	.275	.342	.244
	TOTAL OBS	166	150	168	158	169	163	158	165	158	171	161	177	1964
06	MEAN	29.664	29.642	29.607	29.558	29.551	29.595	29.604	29.632	29.622	29.617	29.622	29.690	29.617
	S D	.248	.325	.263	.191	.183	.16	.139	.136	.206	.294	.272	.338	.241
	TOTAL OBS	159	149	171	161	170	163	167	171	163	168	166	168	1986
09	MEAN	29.657	29.670	29.627	29.561	29.556	29.602	29.620	29.645	29.634	29.648	29.634	29.728	29.632
	S D	.251	.334	.262	.199	.180	.167	.136	.133	.211	.306	.285	.332	.245
	TOTAL OBS	170	146	169	164	167	173	170	179	167	169	165	177	2016
12	MEAN	29.659	29.685	29.602	29.525	29.542	29.581	29.599	29.632	29.620	29.638	29.620	29.713	29.618
	S D	.246	.314	.263	.202	.178	.162	.131	.128	.208	.295	.285	.341	.244
	TOTAL OBS	165	148	173	162	169	162	160	170	156	164	158	169	1956
15	MEAN	29.663	29.642	29.584	29.506	29.525	29.556	29.574	29.606	29.599	29.626	29.597	29.699	29.599
	S D	.234	.326	.256	.197	.171	.167	.134	.126	.205	.288	.279	.338	.242
	TOTAL OBS	164	145	166	160	164	155	168	166	170	176	156	175	1965
18	MEAN	29.660	29.664	29.593	29.514	29.511	29.567	29.571	29.594	29.608	29.624	29.619	29.707	29.603
	S D	.252	.322	.244	.193	.170	.158	.134	.133	.201	.282	.280	.320	.240
	TOTAL OBS	163	150	168	157	165	166	159	164	165	171	167	171	1966
21	MEAN	29.652	29.676	29.599	29.547	29.549	29.578	29.593	29.620	29.622	29.646	29.626	29.703	29.618
	S D	.258	.320	.255	.195	.167	.159	.128	.131	.201	.289	.275	.334	.240
	TOTAL OBS	169	153	165	156	173	160	163	173	158	170	164	169	1973
ALL HOURS	MEAN	29.661	29.659	29.601	29.539	29.540	29.580	29.593	29.622	29.616	29.636	29.622	29.704	29.615
	S D	.248	.323	.256	.195	.176	.164	.135	.132	.205	.292	.277	.336	.242
	TOTAL OBS	1326	1189	1336	1269	1337	1301	1303	1354	1300	1328	1267	1366	15676

DATA PROCESSING BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION	STATION NAME	YEARS												
HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00	MEAN	1017.7	1015.8	1016.0	1014.9	1014.5	1016.5	1017.1	1016.5	1017.2	1018.8	1016.4	1019.0	1016.7
	S D	9.916	11.456	9.187	8.202	6.668	5.405	5.539	4.936	6.927	8.917	10.320	11.307	8.570
	TOTAL OBS	306	268	305	296	307	297	304	310	298	309	298	294	3592
03	MEAN	1017.5	1015.6	1015.8	1014.6	1014.4	1016.5	1017.2	1016.4	1017.1	1018.5	1016.1	1018.9	1016.5
	S D	9.906	11.535	9.198	7.892	6.495	5.430	5.017	4.967	6.869	9.037	10.339	11.330	8.531
	TOTAL OBS	308	266	309	298	308	297	303	305	298	308	300	291	3591
06	MEAN	1017.2	1015.7	1016.0	1015.0	1014.9	1016.8	1017.4	1016.8	1017.3	1018.5	1015.9	1019.0	1016.7
	S D	9.870	11.576	9.338	7.856	6.521	5.408	5.738	5.045	7.037	9.259	10.671	11.359	8.644
	TOTAL OBS	308	270	307	294	307	299	304	304	297	309	299	293	3591
09	MEAN	1018.0	1016.4	1016.5	1015.1	1014.9	1016.9	1017.5	1017.0	1017.6	1019.1	1016.6	1019.6	1017.1
	S D	9.865	11.539	9.365	7.935	6.670	5.434	5.054	5.014	6.946	9.413	10.469	11.290	8.615
	TOTAL OBS	309	269	309	299	308	297	301	309	300	305	298	295	3599
12	MEAN	1017.6	1016.1	1015.8	1014.2	1014.3	1016.2	1016.9	1016.3	1016.9	1018.6	1016.2	1019.2	1016.5
	S D	9.978	11.545	9.275	7.927	6.350	5.769	5.070	4.832	6.914	9.278	10.365	11.381	8.606
	TOTAL OBS	308	269	309	296	309	299	301	309	297	309	297	294	3597
15	MEAN	1017.0	1015.2	1014.8	1013.3	1013.5	1015.6	1016.0	1015.4	1016.0	1017.7	1015.6	1018.7	1015.7
	S D	10.283	11.223	9.078	7.695	6.301	5.387	5.043	4.749	6.763	9.258	10.235	11.367	8.524
	TOTAL OBS	310	268	306	298	309	298	303	306	297	306	298	293	3592
18	MEAN	1017.5	1015.6	1015.1	1013.3	1013.3	1015.3	1015.7	1015.3	1016.2	1018.4	1016.2	1019.1	1015.9
	S D	9.724	11.248	9.029	8.315	6.330	5.258	4.904	4.752	6.734	8.866	10.205	11.152	8.471
	TOTAL OBS	308	270	310	298	309	298	304	310	299	306	297	293	3602
21	MEAN	1017.7	1016.0	1015.7	1014.4	1014.4	1016.4	1016.7	1016.3	1017.1	1018.8	1016.3	1019.2	1016.6
	S D	9.786	11.402	9.093	7.819	6.243	5.330	4.889	4.862	6.823	8.980	10.477	11.142	8.455
	TOTAL OBS	309	271	304	297	307	298	306	308	296	308	297	290	3591
ALL HOURS	MEAN	1017.5	1015.8	1015.7	1014.3	1014.3	1016.3	1016.8	1016.2	1016.9	1018.5	1016.2	1019.1	1016.5
	S D	9.908	11.427	9.197	7.974	6.462	5.448	5.193	4.920	6.888	9.123	10.376	11.277	8.561
	TOTAL OBS	2466	2151	2459	2376	2464	2383	2426	2461	2382	2460	2364	2343	28755