

AD-A128 123

FULDA AAF WEST GERMANY REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT AFB, APR 83

1/2

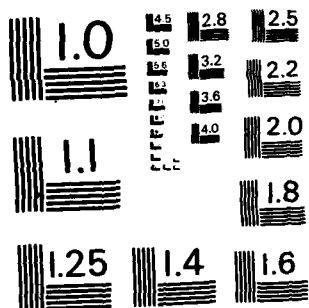
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USAFETAC/DS-83/010 SBI-AD-E850 376

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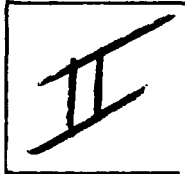
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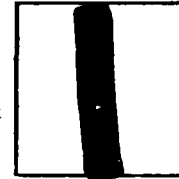


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Apr. '83

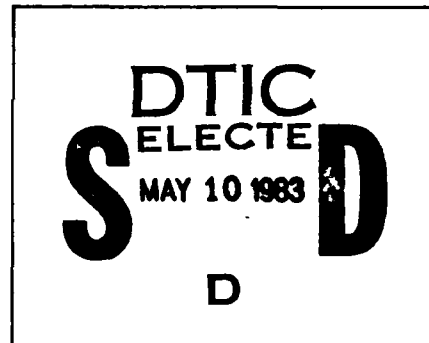
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DATA PROCESSING DIVISION
USAFETAC
Air Weather Service (MAC)

18 APR 1983

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

FULDA AAF DL
N 50 32 E 009 38 ELEV: 1000 FT MSG # 105445
EDEX

PARIS A - F HOURS SUMMARIZED: 0500Z - 1600Z

PERIOD OF RECORD:
HOURLY OBSERVATIONS: JAN 73 - DEC 81
SUMMARY OF DAY DATA: NONE AVAILABLE

TIME CONVERSION GMT TO LST: +1

APR 15 1983

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Distribution Unlimited."

FEDERAL BUILDING
ASHEVILLE, N. C.

REVIEW AND APPROVAL STATEMENT

This report is approved for public release. There is no objection to unlimited distribution of this report to the public at large, or by DDC to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved for publication.

Wayne E. McCollom

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UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

ADE 850 376

DL 105445

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER USAFETAC/DS 83/010	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- FULDA AAF, WEST GERMANY	5. TYPE OF REPORT & PERIOD COVERED Final rept	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s)	8. CONTRACT OR GRANT NUMBER(s)	
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB, IL 62225	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB, IL 62225	12. REPORT DATE APR 83	
	13. NUMBER OF PAGES	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
	15a. DECLASSIFICATION DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) *RUSSWO Daily temperatures Atmospheric pressure Snowfall Extreme snow depth Extreme surface winds Climatology Sea-level pressure Psychrometric summary Surface Winds Extreme temperature Ceiling versus visibility Relative Humidity *Climatological data (over)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for FULDA AAF, WEST 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 (over)		

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

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

*WEST GERMANY

*FULDA AAF

*

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

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

Since Fulda AAF, DL is a part time observing station, we partitioned the data to use only those observations from 0500Z to 1600Z. The hourly data 1700Z to 0400Z were not used in the production of this summary. This is done to reduce any bias in the summaries which could result from using those infrequent observations outside the normal operating hours.

This RUSSWO must be used with caution. The title page contains a stamped entry "Data Not Available" next to those summaries that are not included, i.e., 24-Hour Precipitation: This station being closed on weekends and holidays obviously renders this summary as questionable (is the data for 24, 48 or 60 hours at beginning of new week?)

The remaining summaries contain serious misleading values that if used would present gross inaccurate climatology for the station, therefore the "ALL ALL" summaries were removed (because they do not represent the "ALL" hours summaries):

SECTION A Weather Conditions

SECTION C Surface Winds

SECTION D Ceiling Versus Visibility

SECTION E Psychrometric Summary and Relative Humidity

The remaining Hourly Summaries must be used with caution and the following values NOT USED: TOTALS, MEANS AND STANDARD DEVIATIONS. (The values are for 0500Z to 1600Z only and not for a 24 Hour period).

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

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are indicated by the records of hour-by-hour observations received at designated hourly intervals.

DAILY OBSERVATIONS

Daily observations are indicated by the reports on reports of hourly and conditions (temperature, humidity, etc.) and other data (visibility, etc.)

DESCRIPTION OF SUMMARIES

Summary reports are prepared on a daily basis and are available to the user. The user may obtain a copy of the summary report by contacting the appropriate office.

Summary reports are prepared on a daily basis and are available to the user.

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA **DATA NOT AVAILABLE**

PART B PRECIPITATION **DATA NOT AVAILABLE**

SNOWFALL **DATA NOT AVAILABLE**

SNOW DEPTH **DATA NOT AVAILABLE**

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER **DATA NOT AVAILABLE**

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

EXTREME MAX & MIN TEMP **DATA NOT AVAILABLE**

PSYCHROMETRIC DRY VS WET BULB

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

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE **DATA NOT AVAILABLE**

STANDARD 3-HOUR GROUPS

Summary reports are prepared on a daily basis and are available to the user. The user may obtain a copy of the summary report by contacting the appropriate office.

MISSING HOUR GROUPS

Summary reports are prepared on a daily basis and are available to the user. The user may obtain a copy of the summary report by contacting the appropriate office.

DATE _____ TIME _____

DATE _____	TIME _____	DATE _____	TIME _____
DATE _____	TIME _____	DATE _____	TIME _____

STATION NO ON SUMMARY 105445	STATION NAME FULDA AAF GERMANY	LATITUDE N 50 32	LONGITUDE E 009 38	FIELD ELEV (FT.) 1000	CALL SIGN EDEX	WMO NUMBER
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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		ASST. INSTR.
			FROM	TO			FIELD (FT)	HT. BARG.	
1	Fulda Germany	AAF	Sep 60	Nov 64	N 50 32	E 009 38	1010	N/A	10 to 14
2	No change	AAF	Dec 64	Dec 65	No Chge	No Chge	No Chge	N/A	24
3	No Change	AAF	Jan 66	5 Jul 66	No Chge	No Chge	No Chge	N/A	13 to 14
4	No Change	AAF	6 Jul 66	Oct 66	No Chge	No Chge	No Chge	995	14
5	No Change	AAF	Nov 66	Nov 67	No Chge	No Chge	No Chge	No Chge	24
6	No Change	AAF	Dec 67	3 Feb 69	No Chge	No Chge	No Chge	No Chge	17
7	No Change	AAF	4 Feb 69	Dec 70	No Chge	No Chge	No Chge	977	13 to 17
8	No Chge	AAF	Dec 70	Nov 82	No Chge	No Chge	1000	986.1	13 to 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 60 to Dec 62	Located on top of control tower.	AN/GMO-11	None	54 Ft	
2	Jan 63 to 28 Dec 65	Located 100 Ft N of overrun to Rwy 09.	No Chge	None	15 Ft	
3	29 Dec 65 to Dec 70	Located 337 Ft S and 185 Ft from end of Rwy 27	No Chge	RO-2	18 Ft	
4	Nov 82	Same	Same	Same	Same	

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	

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to ion, 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.

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

10445
 STATION

FOLDA AAF DL
 STATION NAME

73-81
 YEARS

JAN
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS EST.	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	0-00												
	3-00												
	06-08		15.9	1.0	8.5		24.3	50.4	8.2			58.6	597
	9-11		17.3	1.0	10.7		27.9	42.7	11.1			53.8	687
	12-14		13.8	.8	10.2		24.5	29.0	18.2			47.2	638
	15-17	.2	17.9	.4	1.4		27.7	34.7	19.2			44.0	546
	18-20												
	1-23												
TOTALS		.1	16.7	.8	10.0		26.1	36.7	14.2			57.9	2463

GENERAL CLIMATOLOGY BRANCH
 USAF/TAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 445 FULDA AAF DL 73-81 FEB
 STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
FEB	0-02												
	3-05												
	6-08		11.5	.4	11.5		22.8	52.2	7.2			59.4	556
	9-11		11.9	.2	12.8		23.6	44.5	11.1			55.6	647
	12-14		13.1		1.1		22.0	28.5	19.1			47.7	596
	15-17		14.5		10.5		23.0	18.8	22.8	.2		41.9	504
	18-2												
	21-23												
TOTALS			12.8	.2	11.2		22.9	36.0	15.1	.1		51.2	2303

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 445
 STATION

FULDA AAF DL
 STATION NAME

73-81
 YEARS

MAR
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
MAR	0-02												
	3-05												
	6-08		10.1		4.8		21.8	41.2	11.0			52.1	629
	09-11		16.7		7.0		21.2	30.2	14.2			44.4	725
	12-14		14.6		5.6		19.2	9.8	20.6			30.3	676
	15-17		15.1		3.8		18.4	11.5	14.8			26.3	581
	18-20												
	21-23												
TOTALS			10.0		5.3		20.2	23.2	15.2			39.3	2611

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

17 445 FLDLA AAF 0L 73-81 APR
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HALE	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
APR	00-02												
	03-05												
	6-08		12.2		5.7		16.4	37.1	13.8			57.9	617
	9-11		13.6		3.7		16.5	15.0	22.0			37.1	699
	12-14	.3	14.7		2.2	.2	16.0	2.1	13.6			15.6	633
	15-17	.4	14.9		2.5		16.2	1.1	9.8			10.9	530
	18-20												
	21-23												
TOTALS		.2	13.0		3.5	.1	16.3	13.8	14.8			28.6	2479

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 445
 STATION

FULCA AAF GL
 STATION NAME

73-81
 YEARS

MAY
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAY	0-02												
	3-05												
	6-08		13.6				13.6	28.7	15.9			44.6	634
	9-11	.4	11.5				11.5	11.2	15.0			26.2	715
	12-14	1.1	13.0				13.0	3.4	9.8			13.2	644
	15-17	2.4	14.8				14.8	2.0	8.0			17.0	539
	18-2												
	21-23												
TOTALS		1.0	13.2				13.2	11.3	12.2			23.5	2532

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

165745
 STATION

FULDA AAF DL
 STATION NAME

73-81
 YEARS

JUN
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUN	0-02												
	03-05												
	06-08	.8	13.6				13.6	28.0	17.0			45.0	529
	09-11	1.6	13.6				13.6	8.8	15.2			24.0	697
	12-14	2.2	11.7				11.7	3.6	9.0			12.7	631
	15-17	4.8	9.9				9.9	3.3	6.1			9.5	538
	18-20												
	21-23												
TOTALS		2.4	12.2				12.2	10.9	11.8			22.8	2490

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1945
 STATION

FULDA AAF DL

STATION NAME

73-81

YEARS

JUL
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	00-05												
	06-11		10.0				10.0	35.4	15.0			50.4	627
	12-17	.4	11.6				11.6	9.2	18.7			27.9	717
	18-23	1.1	9.6				9.6	3.1	9.1			12.2	645
	24-29	2.3	9.8				9.8	1.5	5.1			6.6	532
	30-31												
TOTALS		1.0	10.3				10.3	12.3	12.3			24.3	2521

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

17445
 STATION

FILDA AAF JL
 STATION NAME

73-81

YEARS

AUG
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS EST	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 CBST TO VISION	TOTAL NO. OF OBS
AUG	0-23												
	3-10												
	5-10	.2	11.9				11.9	46.0	15.7			61.6	631
	9-11	.1	7.7				9.0	18.6	7.1			35.7	700
	12-14	.6	8.4			.2	8.6	3.2	11.9			14.7	652
	15-17	1.2	3.1				3.1	2.1	7.4			9.5	582
	18-23												
	1-23												
TOTALS		.5	4.4				4.1	17.5	13.7			31.1	2565

FEDERAL CLIMATOLOGY BRANCH
 AFSTAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 445 100A AAF LL 73-81 SEP
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LAST	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	1-32												
	3-10												
	6-13	.2	6.4				3.4	59.2	7.3			66.6	586
	9-14		5.7				3.7	32.0	19.2			51.2	447
	12-14	.2	12.1				12.1	4.3	23.1			27.3	637
	15-17	1.3	11.4				11.4	1.9	16.7			17.9	537
	18-20												
	21-23												
TOTALS		.4	10.1				10.1	24.4	16.4			42.9	2377

FEDERAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1945 FALDA AAF DL 73-81 OCT
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
OCT	00-05												
	6-11		16.8		.3		16.8	56.4	4.8			81.1	589
	12-14		12.9				12.9	42.5	9.7			52.1	633
	18-17	.2	13.4		.2		13.4	17.1	19.3			36.3	644
	21-23		16.5				16.5	9.6	17.7			27.3	553
TOTALS		.1	14.9		.1		14.9	31.4	12.9			44.2	2469

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1445 FOLDA AAF DL 73-81 NOV
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
NOV	0-22												
	3-17												
	6-15		15.7	.4	7.5		23.3	40.7	8.0			49.7	650
	7-11		15.3	.2	9.6		23.9	32.8	9.6			42.4	649
	12-14		12.5		7.1	.2	19.6	21.8	15.3			37.3	602
	16-17		13.9	.4	6.9		21.6	20.3	16.7			38.7	517
	18-21												
	21-23												
TOTALS			14.6	.3	7.8	.2	21.9	23.8	12.4			41.2	2311

CENTRAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

10445 FALDA AAF DL 73-81 DEC
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
DEC	0-12												
	13-25												
	26-31		16.6	1.1	8.8		24.3	44.6	6.1			50.6	543
	09-11	.3	17.8		11.2		28.9	34.7	8.6			43.3	626
	12-14		18.8	.5	12.3		29.9	23.6	11.5			35.1	618
	15-17		20.6	.6	12.9		32.1	23.1	9.8			32.8	533
	18-20												
	21-23												
TOTALS		.1	19.7	.6	11.3		28.8	31.5	9.0			47.5	2320

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

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

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

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

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

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

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

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

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

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

SURFACE WINDS

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

STATION: 1 448 F LTA AAF CL STATION NAME: 73-81 YEARS: JAN MONTH: 1970-1970 HOURS U.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	1.7	1.0									3.7	4.5
NNE	.3	.	1.3									3.2	6.0
NE	.2	.	.2									.5	5.7
ENE	.2	.5	.2									.5	5.7
E	.5	.	.									.7	3.3
ESE	.5	.3	.									.3	3.7
SE	1.5	.3	.3									2.2	3.3
SSE	2.5	1.5	.2	.2	.2							4.5	4.1
S	3.9	3.9	3.4	.7								11.7	5.6
SSW	1.5	5.2	4.5	2.2								13.4	7.1
SW	.5	2.7	3.7	2.5								9.4	8.3
WSW	.8	1.5	1.8	1.2	.2	.3						5.9	8.5
W	.2	.8	1.5	4.2	.3							6.9	10.9
WNW	.3	.3	.3	.5								1.5	8.7
NW	1.2	.8	.8	.5								3.2	6.4
NNW	.8	.7	.	.5	.2							2.2	6.8
VARBL			.9	.7	.2							1.7	11.2
CALM												29.3	
	15.7	20.9	23.1	12.9	1.7	.3						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 597

JUNIOR CLIMATE BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1945 100A AAF DL 73-81 JAN
 STATION STATION NAME YEARS MONTH
 ALL WEATHER
 CLASS
 CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.0	1.2									2.1	5.1
NNE	.0	.4	1.0	.6								2.5	7.4
NE	.0	.3	.3									.7	5.4
ENE	.0	.3	.6									1.0	5.0
E	.0		.1									.4	4.7
ESE	1.2	.1	.1									1.5	2.2
SE	1.0	.4	.1									2.5	3.5
SSE	1.0	1.0	.9	.1								3.0	5.1
S	2.6	5.3	4.8	1.5								14.2	5.3
SSW	.1	4.1	4.1	1.3								9.7	7.8
SW	.4	2.5	4.1	1.7	.6							8.7	8.6
WSW	.6	1.2	2.1	1.9	.6							6.3	9.5
W	.1	.0	2.1	4.7	.4	.1						8.4	11.2
WNW	.1	.9	.9	.6								2.5	7.8
NW	.7	.7	.9	.7								3.1	7.2
NNW	1.0	1.3	.4	.6								3.4	5.8
VARBL			.3	.7								1.0	11.4
CALM												27.1	
	17.8	22.5	25.1	13.7	1.6	.1						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 680

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 125445 FULDA AAF DL STATION NAME: 73-81 YEARS: JAN MONTH: 12 10-1400 HOURS (L.S.T.)
 CLASS: ALL WEATHER
 CONDITION:

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	.0	.5	.3								2.7	5.5
NNE	.5	1.6	1.3	.8								4.1	7.0
NE		.7	1.1	.7								1.9	6.3
ENE		.7										.3	5.0
E	.0											.9	2.3
ESE	.7	.0										1.1	3.6
SE	.8											.6	2.0
SSE	1.1	.5	.8									2.5	5.0
S	1.7	5.3	5.5	1.7								14.4	6.9
SSW	1.1	5.0	4.9	1.7								12.7	7.0
SW	.9	2.4	4.1	2.4	.6	.2						10.5	8.9
WSW	.5	1.4	3.6	2.7	.5	.2						8.9	9.9
W	.8	.2	2.8	3.3	.0							6.0	11.1
WNW	.7	.3	.5	1.1								1.9	10.8
NW	.2	1.3	1.4	.6								3.5	8.1
NNW	.5	.8	1.7	.3								3.6	6.5
VARBL		.7	.5	.0								1.4	11.4
CALM												21.0	
	11.1	21.7	29.6	15.9	2.7	.3						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 637

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/HAC

SURFACE WINDS

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

1 1945 DELTA AAF DL 73-81 JAN
 STATION STATION NAME YEARS MONTH
 ALL WEATHER CLASS 1500-1700 HOURS (LST)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.5	.2								2.2	6.1
NNE	1.3	.2	1.1	.2								3.3	5.2
NE		1.3	1.1	.2								2.6	7.1
ENE	.2		.2	.2								.5	6.3
E	.4		.5									.9	5.4
ESE	.4	.7										1.1	3.7
SE	.7	.7	.5									2.2	4.5
SSE	1.1	1.3	.7									3.1	4.3
S	3.3	7.7	4.9	1.1								17.6	5.9
SSW	2.2	4.7	5.1	1.6								13.0	6.9
SW	1.1	4.4	2.6	1.5	.9	.2						10.6	8.3
WSW	.9	2.4	4.7	1.3	.2	.2						9.0	6.1
W	.2	.9	3.8	2.6	1.5	.2						9.3	11.4
WNW	.4	.2	.7	.5	.2	.2						2.2	10.2
NW	.2	1.6	1.3	.7								4.6	6.6
NNW	.5	1.6	.5	.2								2.9	5.4
VARBL			.4	.4								.7	10.3
CALM												14.3	
	15.7	28.6	28.2	17.4	2.7	.7						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 546

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1945 FULDA AAF DL 73-81
 STATION STATION NAME YEARS MONTH FEB
 ALL WEATHER CLASS 1600-2000 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	2.3	1.9	.5									4.7	4.3
NNE	.9	1.3	2.2	.9								5.2	7.2
NE	.5	1.8	2.2									4.5	5.7
ENE	.4	1.4	.5									2.3	5.2
E	.4		.5									.9	5.2
ESE	.5	.9	.2									.9	3.8
SE	1.4											1.4	1.9
SSE	2.5	1.3										3.3	3.7
S	3.2	3.2	1.3	.5								8.3	4.9
SSW	2.7	3.4	3.6	.4								9.4	6.1
SW	1.6	1.3	4.7	1.3	.4							9.2	7.9
WSW	.7	.4	1.6	.9								3.6	7.7
W	.2	1.3	.5	.9	.2							3.1	9.1
WNW	.5	.4	.2	.4	.2							1.6	8.2
NW	1.3	.9		.2								2.3	3.0
NNW	2.5	1.1		.2								3.2	3.7
VARBL			.4	.2								.5	10.7
CALM												25.1	
	27.5	19.6	18.3	5.8	.7							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 556

2

GLOBAL CLIMATOLOGY BRANCH
 USAF/TAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 445 FULDA AAF DL 73-81 FEB
 STATION STATION NAME YEARS MONTH
 ALL WEATHER CLASS 1900-1100
 CONDIION HOURS (LST)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.3	1.9	.6									4.3	4.2
NNE	.9	2.3	2.3	.5								6.7	7.7
NE	.3	1.4	1.2									2.9	5.9
ENE	.2	.2	1.5	.3								2.2	3.4
E	.5	.6	.3									1.4	5.
ESE	.3	.5	.2									.9	4.5
SE	1.4	.3	.6	.2								2.9	4.7
SSE	1.7	.9	.5									3.1	3.9
S	2.3	3.6	2.8	.6								9.3	5.8
SSW	.9	2.5	4.8	.5								8.7	6.8
SW		1.9	2.9	1.1	.2							5.1	3.6
WSW	.5	.5	1.9	1.4	.2							4.3	2.7
W	.6	.8	1.7	1.4	.2							4.6	8.8
WNW	.9	.2	.3	.3								1.5	6.0
NW	1.5	.8	.5									2.8	3.9
NNW	3.1	1.9	1.1	.5								6.5	4.6
VARBL		.2	1.9	.6	.2							2.6	9.4
CALM												9.2	
	17.3	23.6	25.7	7.3	.6							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 647

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

15445 FULDA AAF DL 73-81 FEB

STATION STATION NAME YEARS MONTH

ALL WEATHER

CLASS

1200-1400

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	1.5	2.3	1.2									5.0	4.8
NNE	.8	2.3	2.7	.8								6.7	7.1
NE		1.2	1.2	.5								2.9	7.6
ENE	.2	.2	1.3	.3								2.5	8.9
E	.2	.3	.5									1.2	5.6
ESE	.5	.2	1.2	.7								2.5	8.1
SE	1.0		.7									1.7	4.5
SSE	.3	.9	1.0									2.2	6.1
S	2.3	2.7	5.7	.8								10.7	6.9
SSW	.9	3.4	4.9	1.5								10.5	7.8
SW	.7	1.7	4.7	1.5	.3							8.2	9.0
WSW	.3	1.2	2.9	2.0	.3							6.7	9.7
W	.2	.5	2.5	2.2								5.4	9.9
WNW	.3	.5	.8	.2								1.8	7.0
NW	1.3	.5	.7	.8								3.4	6.7
NNW	3.9	1.5	.3	.2								5.9	3.3
VARBL			1.8	.5								2.3	9.5
CALM												20.1	
	14.6	18.0	34.6	12.1	.7							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 596

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAO

SURFACE WINDS

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

STATION: 17-445 FULDA AAF DL STATION NAME: 73-81 YEARS: FEB MONTH: 1500-1700 HOURS (LST)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	.2								3.2	5.9
NNE	.6	3.0	6.0	1.0								10.5	7.5
NE	.8	2.8	3.2	.6								7.3	6.9
ENE	.2	.4	.8									1.4	6.1
E	.2	.4	.6									1.2	6.0
ESE	.0	.8	.8	.8								3.0	7.3
SE	.4	.8	.4									1.6	5.1
SSE	.8	1.0	1.4	.2								3.4	6.4
S	2.2	4.4	3.2									9.7	5.3
SSW	2.2	4.0	3.2	1.2	.2							10.7	6.5
SW	1.2	2.6	6.0	2.8	.2							12.7	8.5
WSW		1.8	2.0	1.4	.8							6.0	10.1
W	.2	1.8	1.6	1.8	.2							5.6	8.9
WNW	.6	1.4	.8									2.8	5.4
NW	1.2	.2	1.0	.4								2.8	6.1
NNW	2.2	1.0	.2	.8								3.8	4.0
VARBL		.2	.8									1.0	6.8
CALM												13.5	
	14.3	27.4	52.7	10.7	1.4							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 504

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1 1445 FULDA AAF DL STATION NAME FULDA AAF DL YEARS 73-81 MAP MONTH 0600-0800
 CLASS ALL WEATHER HOURS (L & Y) 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	3.9	2.1	1.1	.5								7.5	4.4
NNE	.3	2.2	1.9									4.5	6.2
NE	.2	1.4	1.6	.3								3.5	7.8
ENE		.3	.2	.2								.6	7.5
E	.2	.2	.2									.5	4.7
ESE	.2	.2										.3	2.5
SE	1.4	.5										1.9	2.9
SSE	1.1	.5										1.6	3.0
S	1.9	3.2	1.9	1.0								7.9	6.1
SSW	1.1	3.7	3.7	1.1								8.9	7.0
SW	.6	1.9	2.1	.8								5.4	7.3
WSW	.2	1.4	2.1	1.9								5.6	9.1
W	1.0	1.0	2.2	2.2	.2							6.5	9.1
WNW	1.7	.5	.5	.3								3.2	4.6
NW	1.3	1.3	.6	.3								3.5	5.0
NNW	3.2	1.6	1.1	.3								6.2	4.2
VARBL			1.3	.6	.2							2.1	10.4
CALM												10.5	
	13.1	21.1	20.3	9.5	.3							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 629

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

109445 FOLDA AAF DL 73-81 MAP
STATION STATION NAME YEARS MONTH
ALL WEATHER 1930-1100
CLASS HOURS (L B 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	3.7	1.4	1.2	.4								0.2	4.7
NNE	.7	1.8	2.0	.6								5.9	7.1
NE		.1	1.5	1.0								3.6	10.0
ENE	.4	.3	.6	.3								1.5	7.0
E	.3	.3	.4									1.0	5.9
ESE	.7	.6										1.2	2.9
SE	1.7	.1										1.8	2.1
SSE	1.3	.7		.1								1.8	3.6
S	1.4	3.6	1.8	.8								7.6	6.2
SSW	1.1	3.7	5.4	1.7	.1							11.3	7.8
SW	.4	1.2	3.7	4.1	.1							9.0	10.4
WSW	.4	1.0	2.8	1.8	.3							6.2	9.3
W	1.2	.1	2.5	3.5	.1							7.5	9.7
WNW	1.4	.8	1.1	1.2	.1							4.7	7.4
NW	1.4	1.7	1.2	.4								4.7	5.9
NNW	1.9	2.1	.8	.3	.1							5.2	5.7
VARBL	.1		1.5	1.4								3.7	10.6
CALM												18.6	
	17.3	18.9	26.8	17.5	1.0							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 724

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIRCRAFT SERVICE/MAC

SURFACE WINDS

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

1 1945 FLDLA AAF DL 73-81 MAC

STATION STATION NAME YEARS MONTH

ALL WEATHER 1200-1400

CLASS HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.0	1.2	.1								4.7	5.2
NNE	1.5	1.3	2.2	1.0								6.1	7.1
NE	1.0	.7	2.2	1.3								5.3	7.9
ENE	.7	.3	1.2	.3	.1							2.2	3.5
E	.7	.4	.3									1.5	4.5
ESE	.4	.3	.1	.1								1.2	4.6
SE	.6	.7	.3									1.6	4.6
SSE	.7	.9	1.5	.3								3.4	6.5
S	1.3	1.9	3.3	.6								7.1	6.6
SSW	.7	2.7	5.6	1.9	.1							11.1	8.3
SW	.4	1.0	3.3	3.1	.3							8.1	10.2
WSW	.6	2.4	2.2	4.6	1.2	.1						11.1	11.2
W	.4	.3	3.4	4.0	.4							9.6	10.8
WNW	.4	.5	1.0	2.1	.1							4.3	10.2
NW	1.3	1.3	2.1	.1								4.9	5.7
NNW	1.8	1.5	2.2	.4								5.9	6.7
VARBL		.1	4.4	1.6								6.2	9.9
CALM												6.7	
	13.9	19.5	36.6	21.8	2.4	.1						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 675

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1445 FULDA AAF DL STATION NAME FULDA AAF DL YEARS 73-81 MONTH MAR
 CLASS ALL WEATHER HOURS (LST) 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	1.7	1.9	1.7	.2								5.5	5.4
NNE	1.7	2.3	3.8	1.2								9.9	7.4
NE		2.1	1.9	1.5								5.5	8.7
ENE	.2	.2	.9	1.4								2.6	10.3
E	.3	.2	.2	.3								1.0	7.9
ESE	.3	.9										1.2	3.7
SE	.2	.7	1.5									2.4	6.6
SSE	.7	.5	1.4	.3								2.9	7.3
S	.7	3.8	4.0	.2								8.6	6.7
SSW	1.2	2.6	2.6	1.4								7.7	7.4
SW	.7	2.2	3.8	3.3	.3							10.3	9.3
WSW	.5	2.6	4.1	4.1	.3							11.7	9.3
W	.2	1.5	2.9	2.9	.5							8.1	10.0
WNW	.5	1.2	1.4	1.4								4.5	8.2
NW	.0	.7	1.4	.5								3.4	6.4
NNW	1.7	1.2	2.1	.2								5.2	5.3
VARBL		.3	2.2	1.5								4.1	9.2
CALM												5.4	
	10.8	25.3	35.8	27.5	1.2							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 581

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 177445 FILD AAF DL STATION NAME: 73-81 YEARS: ADD MONTH: 1600-1800
 CLASS: ALL WEATHER HOURS (LST):
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	3.2	3.6	.5								10.2	5.4
NNE	.8	1.3	1.8									4.4	5.6
NE	.7	.3	.6									1.5	5.3
ENE		.2	.2									.3	7.0
E	.2											.2	2.7
ESE	.5											.5	1.3
SE	.6	.3										1.0	2.7
SSE	1.3	.2										1.5	2.3
S	1.5	.5	.9									2.3	4.4
SSW	1.1	1.9	2.3	.8								6.0	6.7
SW	1.3	1.9	2.4	1.5	.2							7.1	7.9
WSW	1.0	1.5	1.7	.2								3.3	5.5
W	.3	1.3	1.5	.6	1.0							4.7	10.0
WNW	.3	1.6	.6	.5								3.1	6.3
NW	1.5	1.6	1.6	.3								5.0	5.9
NNW	3.4	3.1	1.8	.3								8.5	4.8
VARBL			.5	.5								1.0	11.3
CALM												38.6	
	16.9	19.6	18.6	5.2	1.1							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 617

MONTHLY CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1-445 FOLDA AAF DL 73-81 1980

STATION STATION NAME YEARS MONTH

ALL WEATHER 1980-11-0

CLASS HOURS (LST)

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.1	2.7	3.1	.7								9.9	5.7
NNE	.7	1.3	3.6	.6								5.3	7.3
NE	.3	1.7	2.1	.4								3.9	7.7
ENE	.1	.7	1.4	1.1								3.6	9.0
E	.4	.3	.1									.9	4.3
ESE	.7	.7	.6	.3								2.3	5.9
SE	.3	.3	.3									.9	5.8
SSE	.4	.7	.1	.3								1.6	6.2
S	2.4	2.4	.9	.3								6.0	4.8
SSW	.6	1.1	1.1	1.7								3.9	7.6
SW	.1	1.4	3.4	1.9								6.9	9.1
WSW	.1	.3	2.6	2.9								3.9	10.6
W	.6		2.7	2.0	.1							5.3	9.5
WNW	1.7	.7	1.4	1.1								4.4	7.8
NW	1.9	1.7	3.3	1.4								3.3	7.2
NNW	3.1	2.3	2.7	.6								8.0	3.3
VARBL	.7		3.3	1.7	.3							5.6	10.4
CALM												16.6	
	16.5	18.7	31.5	16.3	.4							170.0	6.3

TOTAL NUMBER OF OBSERVATIONS 699

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1 4447 FULDA AAF DL STATION NAME FULDA AAF DL YEARS 75-81 MONTH APR
 CLASS ALL WEATHER HOURS (L & T) 1700-1400
 CONDITION _____

SPEED (KNTS) Dir	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.7	1.1	0.4	.2							3.2	7.6
NNE	.4	2.7	3.5	.3								6.5	7.4
NE	.4	1.3	2.5	2.1								7.3	6.3
ENE	1.4	1.4	2.1	1.1								5.5	7.4
E	1.4	.5	.6	.6								3.3	6.2
ESE	.3	.7	.5	.3								2.7	5.4
SE	.3	1.1	.9	.5								2.7	7.8
SSE	.3	1.4	.9	.2								3.0	6.1
S	.3	1.0	.3	.2								2.8	5.1
SSW	.3	1.1	2.4	1.3								5.7	7.6
SW	.3	.9	2.4	2.5								5.9	9.2
WSW	.4	1.4	3.9	2.8								8.9	8.9
W	.5	.8	2.7	1.6	.3							5.3	9.8
WNW	.5	.9	1.1	1.1	.3							3.9	9.2
NW	.5	1.3	2.5	1.9	.2							6.3	9.5
NNW	1.4	2.1	2.5	.9								7.3	6.9
VARBL	.2	.6	5.2	3.7	.3							9.1	9.3
CALM												4.9	
	12.3	23.1	36.2	22.4	1.3							170.0	7.8

TOTAL NUMBER OF OBSERVATIONS 1700

FEDERAL CLIMATOLOGY BRANCH
 WAFSC/TAC
 METEOROLOGICAL SERVICE ZNAC

SURFACE WINDS

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

STATION FLDA APT DL YEARS 77-81 MONTH AD
 STATION NAME ALL WEATHER CLASS ALL WEATHER MONTH AD
 CLASS ALL WEATHER MONTH AD
 CONDITION ALL WEATHER MONTH AD
 HOURS (LST) 1800-1700

SPEED KNTS. DIR.	1-3	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	2.5	1.5	.6							7.4	6.5
NNE	.6	2.1	3.6	1.8								7.1	7.2
NE	1.1	1.2	3.9	2.1								9.9	6.1
ENE		1.1	1.9	2.8								5.8	1.7
E	1.1	.6	.9	.6								3.7	5.9
ESE	.4	.4	.6	.8								2.1	5.8
SE	.7	1.7	.6	.3								2.3	6.1
SSE	.5	1.7	.6									2.1	5.8
S	.4	1.7	.4									1.5	5.7
SSW	.2	.2	2.6	1.1								4.5	6.1
SW	.4	1.7	3.3	1.1								9.4	5.7
WSW	.2	1.8	4.9	2.3								1.7	9.2
W	.4	1.9	7.7	1.7	.6							7.6	9.7
WNW	.6	1.7	1.5	1.7								5.5	8.6
NW	.4	.6	3.1	1.3	.2							3.5	4.7
NNW	1.1	2.1	3.2	1.1								7.5	7.5
VARBL	.2	.2	3.3	3.2								7.2	10.4
CALM												5.8	
	9.9	22.1	41.2	21.7	1.3							100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 570

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAO

SURFACE WINDS

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

STATION 17440 STATION NAME 7-11A AAF DL YEARS 77-81 MONTH MAY
 CLASS ALL WEATHER HOUR(S) 00-2300
 CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.7	.7	.2								3.3	3.7
NNE	.6	1.7	2.0									5.4	6.7
NE		1.7	1.6	.3								3.2	7.0
ENE	.2		1.7	.7								1.7	6.7
E	.2	.2										.3	4.0
ESE	.9	.2	.2									1.3	3.5
SE	1.1	.2	.3									1.6	3.7
SSE	.9	.2	.2									1.7	3.7
S	2.2	2.2	1.1									9.4	4.5
SSW	1.4	3.7	1.7	.3								7.7	5.5
SW	.6	.2	1.6	.5	.2							3.3	7.2
WSW	.6	1.1	.2	.2		.2						2.3	6.2
W	1.4	.2	1.4									3.8	5.6
WNW	1.1	.5	.7									2.1	4.4
NW	2.9	1.6	1.1		.2							4.9	4.7
NNW	4.4	1.4	.6									6.5	3.4
VARBL			.5	.5								.9	9.5
CALM												77.9	
	23.2	19.7	16.4	2.4	.2	.2						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 673

2

U.S. NAVAL CLIMATOLOGY BRANCH
 USAFETAC
 U.S. WEATHER SERVICE/NAO

SURFACE WINDS

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

STATION 1 0487 F OLA AAF DL STATION NAME 73-81 YEAR MAY
 CLASS ALL WEATHER MONTH MAY
 HOURS 11 5 11
 CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥ 56	%	MEAN WIND SPEED
N	0.5	2.7	1.5									1.7	4.7
NNE	1.4	2.7	2.7	.6								6.7	6.7
NE	.4	.7	1.3	.1								3.1	7.7
ENE	.7	.7	1.5	1.3	.1							4.3	3.5
E	.4	.3	.3	.7								2.2	3.1
ESE	.7	1.1	.4	.6								3.2	6.3
SE	1.5	.6	.4	.1								2.1	4.9
SSE	.2	1.7	1.3									3.1	5.6
S	2.2	3.4	3.2	.7								9.5	5.7
SSW	1.7	3.4	3.5									8.1	6.7
SW	.4	.6	2.5	.8								4.3	8.2
WSW	.6	1.4	2.1	.8		.1						5.7	8.7
W	.6	2.0	3.4	.7	.4	.1						7.1	8.6
WNW	.5	1.7	1.1									2.7	5.9
NW	1.7	2.0	.7	.3								3.9	5.6
NNW	3.1	3.1	2.7									8.1	4.7
VARBL			5.2	2.1	.1							7.4	9.8
CALM												12.0	
	17.6	25.0	34.6	8.8	.7	.7						170.0	5.9

TOTAL NUMBER OF OBSERVATIONS 714

2

FEDERAL BUREAU OF SURVEY
 NATIONAL CLIMATOLOGY BRANCH
 U.S. AIR FORCE
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

17445 FULDA AAF DL 77-81 MAY
 STATION STATION NAME YEARS MONTH
 ALL WEATHER CLASS 1700-1400 HOURS (LST)
 CONDITION

SPEED KNTS: DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	2.7	1.7	.3								4.7	6.5
NNE	.5	2.3	2.5	.8								5.1	7.2
NE	.6	.9	1.4	1.1								4.0	7.9
NNE	.3	1.9	2.3	2.3	.2							7.1	9.6
E	1.1	.3	1.6	.9								4.3	7.3
ESE	.6	.5	.8	.5								2.3	7.7
SE	.6	1.4	1.6	.2								3.7	6.6
SSE	.6	1.4	1.1	.2								3.3	6.1
S	1.6	2.5	2.2	1.2								7.6	6.8
SSW	1.2	2.3	3.7	1.4								8.7	7.3
SW	.3	1.9	2.5	1.9	.2							5.7	8.7
WSW	.5	1.4	3.3	.8								5.9	7.0
W		2.5	3.7	1.4	.3	.2						7.3	8.9
WNW	.5	.5	2.2	.3	.2							3.7	7.8
NW	.3	1.2	.9	.8	.2							3.4	8.4
NNW	1.6	2.3	1.1	.3								5.7	5.3
VARBL		.3	7.1	2.5								9.9	9.4
CALM												5.6	
	19.7	27.7	33.8	16.8	.9	.2						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 644

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 400 WEATHER SERVICE/MAC

SURFACE WINDS

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

1 5040 FULDA AAF DL 73-81 MAY
 STATION STATION NAME YEARS MONTH
 ALL WEATHER 15.0-1700
 CLASS HOURS (LST)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.7	1.9									6.3	5.5
NNE	.7	2.4	2.7	.6								5.3	6.5
NE	.2	1.1	1.1	1.9	.2							4.5	9.9
ENE	.4	1.1	2.4	2.4	.2	.2						6.7	10.3
E	.4	.7	1.1	.6								2.8	7.7
ESE	.4	1.5	1.7		.2							3.7	6.9
SE	1.5	1.5	.6	.2								3.7	4.9
SSE	.9	1.7	2.7	.4								5.0	6.3
S	1.1	2.8	1.3	.4								5.6	5.7
SSW	.6	3.3	3.5	.4								7.8	6.7
SW	.4	2.2	1.7	.9								5.2	7.3
WSW	.4	1.7	4.3	1.5								7.8	8.5
W	.6	1.9	3.9	2.8	.6							9.7	9.2
WNW	.4	2.2	1.1	.9		.2						4.8	8.7
NW	1.1	1.7	1.3	.7								4.3	6.6
NNW	.9	2.2	1.7	.4								5.2	6.2
VARBL		.2	4.6	2.4								7.2	9.7
CALM												3.3	
	10.6	32.7	36.2	16.4	1.1	.4						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 538

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

1 5445 FULDA AAF DL 73-81 JUN
STATION STATION NAME YEAR NORTH
ALL WEATHER 1600-2800
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	4.3	2.7	.6	.2								7.9	3.8
NNE	1.1	1.6	.8									3.5	4.7
NE	.3	.5	.2									1.0	4.5
ENE	.2	.2										.3	4.5
E	.5											.5	2.0
ESE	.6											.6	1.3
SE	.8	.3										1.1	3.3
SSE	1.0	.3										1.3	2.8
S	2.1	2.4	.6									5.1	4.1
SSW	1.3	2.4	2.2	.6								7.1	5.8
SW	1.3	1.9	2.1	.2	.2							5.4	6.6
WSW	1.1	1.0	2.1	.6								4.5	7.1
W	1.3	.6	1.4	.2								4.0	5.0
WNW	1.3	.5	1.6									3.7	5.3
NW	1.3	1.8	1.4									4.5	5.1
NNW	4.3	2.1	1.3	.2								7.9	4.2
VARBL			.8									.8	8.6
CALM												43.5	
	23.7	18.4	15.2	1.9	.2							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

624

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

100445 FOLDA AAF JL 73-81 JUN
STATION STATION NAME YEARS MONTH
ALL WEATHER 0900-1100
CLASS HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.2	3.7	1.7	.1								9.0	4.2
NNE	2.2	2.2	1.3									5.6	4.7
NE	1.7	1.7	.9	.1								3.7	4.7
ENE	.7	.6	.9									2.2	5.8
E	1.1	.4	.4									2.7	3.9
ESE	.6	.3										.9	3.3
SE	.4											.4	1.3
SSE	1.7	.6	.4									2.7	3.7
S	.9	2.9	.9	.4								5.0	5.5
SSW	1.9	2.7	3.4	.3	.3							8.6	6.7
SW		1.7	4.2	1.7								6.9	8.6
WSW	.6	2.6	3.6	1.3	.1							8.2	7.9
W	.7	1.4	3.7	.9								6.7	7.6
WNW	.9	1.3	2.2	.4								4.7	6.7
NW	.3	1.3	2.7	.3								4.6	7.6
NNW	2.7	3.7	2.7	1.0								8.8	5.6
VARBL			2.7	.4								3.2	8.4
CALM												16.8	
	20.5	25.7	31.7	5.3	.4							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 697

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 3045 FLDJA AAF DL 73-81 JUN 1200-1400
 STATION STATION NAME YEARS MONTH HOURS (L S T)
 ALL WEATHER CLASS
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	2.2	2.1	.8								7.9	5.8
NNE	1.0	2.5	1.7									5.2	5.5
NE	1.4	2.9	1.7									6.0	5.6
ENE	1.0	1.0	.8	.3								3.0	6.1
E	1.1	1.4	.5	.2								3.0	4.9
ESE	1.3	.3	.6									2.7	4.4
SE	1.0	1.0	.3	.3								2.5	5.3
SSE	.5	.2										1.3	3.7
S	.8	1.4	1.3	.2								3.6	6.3
SSW	1.3	2.9	2.4	1.0								7.4	6.3
SW	.6	1.4	1.9	1.6	.2							5.7	8.6
WSW	.6	1.1	4.3	2.1								8.1	8.7
W	1.4	1.6	4.8	1.4	.2							9.4	7.9
WNW	1.0	1.3	3.8	1.3								7.3	8.0
NW	.8	1.6	1.4	.5								4.3	6.7
NNW	.6	3.8	1.6	1.0								7.0	6.5
VARBL		.5	7.8	1.4	.2							9.8	9.1
CALM												5.7	
	17.1	27.9	36.9	11.9	.5							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1944^c FULDA AAF DL 73-81 JUN
 STATION STATION NAME YEAR MONTH
 ALL WEATHER 1900-1700
 CLASS HOURS (L E 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	2.6	2.2	.9								6.7	6.6
NNE	1.1	2.8	2.4	.4								6.7	5.9
NE	.6	1.3	4.1	.6								6.5	7.5
ENE	.7	1.3	2.4									4.5	6.6
E	.7	2.0	.7	.4								3.3	6.6
ESE	.4	.6	.6	.2								1.7	5.7
SE	.4	.4										.7	3.9
SSE	.7	1.1	.2									2.0	4.3
S	1.5	.7	1.1									3.3	4.6
SSW	.2	3.7	2.8	.4								7.1	6.6
SW	.6	1.7	2.2	1.5								5.9	8.5
WSW	.4	2.8	3.9	2.2								9.3	8.4
W	1.7	4.3	3.5	.6								10.0	6.4
WNW	.6	2.9	3.3	1.7								8.4	7.8
NW	.4	2.5	2.8	.2								6.1	6.5
NNW	.7	2.2	2.4									5.4	6.1
VAPBL		.4	5.2	.9								6.5	8.8
CALM												5.3	
	11.0	33.5	40.7	9.9								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 538

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAO

SURFACE WINDS

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

1 5445 FULDA AAF DL 73-81 JUL
 STATION STATION NAME YEARS MONTH
 ALL WEATHER NORTH
 CLASS 3600-1800
 HOURS (L S Y)
 CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.4	1.4	.5									5.3	3.5
NNE	.2	.5	.2									.8	5.0
NE													
ENE													
E	.7	.3										.5	3.3
ESE	.7	.7										.5	2.7
SE	1.1	.2										1.3	2.7
SSE	1.4	.2										1.5	2.4
S	2.6	3.7	.6									6.2	4.7
SSW	1.0	5.4	2.7									13.1	5.3
SW	1.4	3.4	2.6	.5								7.8	5.9
WSW	1.4	1.6	2.1	.5								5.6	6.2
W	1.0	3.7	1.3	1.1								7.7	6.4
WNW	.5	1.7	1.1									2.7	5.8
NW	1.1	1.7	.3	.2								2.6	4.3
NNW	2.2	1.6	.5									4.3	3.6
VARBL			.2									.2	7.7
CALM												43.6	
	18.8	23.3	12.7	2.2								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

626

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

SURFACE WINDS

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

1 - 449 STATION FOLDA AAF DL 73-81 YEARS JUL MONTH
 ALL WEATHER CLASS 910-1100 HOURS (LST)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	2.9	1.4									7.3	4.3
NNE	1.2	1.3	.1									2.1	3.7
NE	.4	1.1	.3	.3								2.1	5.2
ENE	.3	.3	.1									1.3	4.6
E	.4	.4										.3	3.2
ESE	.6	.3										1.4	4.7
SE	.4	.1	.1									.7	3.8
SSE	.7	.4	.3									1.4	4.2
S	.5	2.4	1.1	.3								4.3	5.9
SSW	1.1	3.2	4.5	.6								9.9	6.7
SW	.4	3.1	5.2	.6								9.9	7.3
WSW	.6	2.7	3.9	.8								3.7	7.5
W	1.5	4.2	3.4	1.4								10.5	6.8
WNW	1.5	1.7	2.5	.8								6.6	6.5
NW	1.1	2.7	2.8	.4								7.7	6.8
NNW	1.7	2.7	1.7									6.7	5.3
VARBL	.1	.1	3.2	.6								4.1	3.2
CALM												16.6	
	15.4	37.9	31.3	5.7								100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 715

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAO

SURFACE WINDS

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

1 0495 FULDA AAF DL 73-81 JUL
 STATION STATION NAME YEARS MONTH
 ALL WEATHER 12 0-1400
 CLASS HOURS (LST)
 CONDITION

SPEED (KNTS): DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.5	1.7	.5								6.4	5.4
NNE	.8	2.7	1.2	.2								4.2	5.7
NE	.5	1.5	.2									2.2	4.9
ENE	1.1	.9										1.9	3.6
E	.9	.3	.2	.2								1.9	4.5
ESE	1.2	1.7	.3									2.0	3.9
SE	.5	.7	.2									.9	4.3
SSE	.9	.5	.6									2.1	4.4
S	1.2	1.7	.8	.2								3.9	5.3
SSW	.8	1.1	3.9	1.2	.2							7.1	9.1
SW	.2	1.5	4.8	2.2								8.7	9.7
WSW	.5	2.3	6.7	1.2								10.7	8.2
W	1.7	3.6	6.8	2.7								14.1	7.5
WNW	.9	2.8	3.1	.5								7.3	6.5
NW	1.7	2.3	3.6	.6	.2							9.4	6.9
NNW	1.4	3.3	1.6	.5								6.7	9.2
VARBL			5.7	.2								6.8	8.4
CALM												4.3	
	16.7	27.9	42.2	9.3	.3							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 645

SIGNAL CLIMATOLOGY BRANCH
USAFETAC
ALL WEATHER SERVICE/MAC

SURFACE WINDS

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

1 7845 FULDA AAF DL 73-81 JUL

STATION STATION NAME YEARS MONTH

ALL WEATHER 15 0-1700

CLASS HOURS (LST)

CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.7	.2	.2								7.1	6.3
NNE	1.1	1.7	.9									3.2	4.8
NE	.4	2.1	.5									3.0	5.7
NNE	.4	1.7	.5									2.8	5.3
E		.7	.6									1.5	5.4
ESE	1.4	.7	.2									2.8	3.5
SE	.4	.7										.9	3.1
SSE	.8	.7	.2									1.9	4.1
S	.9	1.6	.4									2.8	4.3
SSW	.4	1.1	1.9	1.1								4.7	5.1
SW	.9	1.7	1.1	.4								7.9	7.4
WSW	1.1	3.6	7.7	2.3								13.9	7.7
W	1.5	3.4	5.2	1.9	.8							13.7	8.5
WNW	1.0	3.7	3.4	.6	.2							9.7	6.6
NW	1.1	2.3	5.1	.8								9.2	7.1
NNW	1.5	2.4	2.3	.7								6.4	5.9
VARBL			3.4	.9								4.1	9.2
CALM												5.1	
	15.6	29.7	47.6	8.1	.9							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 532

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1946 JULDA AAF DL 73-81 800
 STATION STATION NAME YEARS MONTH
 ALL WEATHER 610-1800
 CLASS HOURS (LST)
 CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.5	2.2	0.5									1.4	1.3
NNE	0.5	0.7	0.2									1.0	4.3
NE	0.7	0.7										0.6	1.3
ENE	0.7											0.2	2.0
E	0.7											0.3	3.0
ESE	0.7											0.3	1.0
SE	1.7	0.7										2.1	2.0
SSE	1.7											1.9	2.0
S	1.7	1.4										3.2	3.0
SSW	0.1	2.1	0.3	0.3								4.0	4.4
SW	0.7	1.7	0.5	0.3								3.0	0.0
WSW	0.7	1.7	0.8	0.2								3.4	6.0
W	1.1	1.1	0.3	0.2								3.2	5.0
WNW	1.7	0.9	0.2	0.2								2.1	4.3
NW	1.7	1.7	0.2	0.2								3.0	3.9
NNW	5.1	1.0										7.0	2.0
VARBL													
CALM												50.7	
	23.0	15.1	3.5	1.1								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS 631

1. NAME OF STATION BY BRANCH
 2. LOCATION
 3. WEATHER SERVICE ZONE

SURFACE WINDS

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

STATION 1445 F O S AAF 01 STATION NAME 77-81 YEARS 30 MONTH 10-11 HOURS 1-11
 CLASS ALL WEATHER CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.6	2.7	0.6	0.1								0.2	4.0
NNE	0.3	2.7	0.6									0.2	4.0
NE	0.0	1.4	0.4									0.1	4.0
ENE	0.2	0.2	0.3									0.1	4.0
E	0.6	0.7	0.3									0.2	4.0
ESE	0.5	0.1	0.4	0.1								0.2	5.1
SE	0.6	0.1	0.7									0.2	5.7
SSE	0.6	1.3	0.7									0.2	4.3
S	0.3	4.4	1.6	0.1								0.2	5.2
SSW	1.7	4.3	3.0	0.1								0.2	5.9
SW	1.1	1.6	2.9	0.1	0.1							0.2	5.7
WSW	0.2	1.5	2.5	0.9								0.3	7.6
W	0.7	1.9	1.9	0.9	0.1							0.4	7.5
WNW	0.4	0.2	1.7	0.4								0.4	7.1
NW	1.1	2.7	1.1	0.1								0.3	6.2
NNW	3.4	2.1	0.4	0.1								0.1	3.2
VARBL			1.3									0.2	5.1
CALM												0.5	
	20.6	29.3	21.3	1.3	0.3							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 300

JOURNAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/LMAC

SURFACE WINDS

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

STATION: 17449 FLDN AAF CL STATION NAME: YEARS: 77-81 MONTH: 12 1-1400
 CLASS: ALL WEATHER HOURS (LST):
 CONDITION:

SPEED KNTS: DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.0	2.3	1.8									1.1	5.0
NNE	.5	2.9	.7	.5								4.0	5.6
NE	.8	1.0	.6	.3								3.5	5.7
ENE	1.2	2.0	1.5	.2								5.7	5.1
E	.6	1.0	.3	.2								1.4	5.2
ESE	.6	1.7	.8	.2								1.2	6.0
SE	.2	.3	.6									1.7	5.1
SSE	1.1	.9	1.1									1.1	5.5
S	1.1	3.5	3.2	.5	.2							1.1	6.0
SSW	1.5	4.3	2.5	.9								1.7	6.8
SW	.6	3.1	3.5	.3								1.7	6.8
WSW	.9	3.5	3.4	.6								1.4	6.7
W	.6	1.5	2.2	1.7								1.5	6.0
WNW	.8	.6	1.7	.3	.2							1.5	7.0
NW	1.1	1.5	4.0	.8								1.4	1.0
NNW	2.1	2.3	.9	.5								1.5	5.1
VARBL	.8	.7	7.2	.5								4.7	5.3
CALM												4.5	
	15.4	35.7	36.5	6.9	.3							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS: 1400



2

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

SURFACE WINDS

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

1 0040 F LHA AAF DL

77-81

400

STATION

STATION NAME

YEARS

MOON

ALL WEATHER

15 2-1700

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS): DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.6	1.7									6.0	5.2
NNE	1.7	2.6	2.7	.3								6.7	6.4
NE	.2	1.7	2.2	.7								4.3	7.6
ENE	.9	1.7	2.2	.3								4.0	6.7
E	1.4	1.9	1.5	.2								5.0	6.6
ESE	1.2	1.4	1.0	.5								4.1	6.1
SE	.5	1.2	.5	.2								2.4	5.4
SSE	.7	1.5	.7									6.5	5.5
S	1.5	2.6	1.5	.2								5.3	6.3
SSW	1.7	4.1	2.4	.3								8.5	6.5
SW	.7	3.1	2.7	1.2								7.7	7.4
WSW	1.7	1.7	2.6	.9								5.2	7.3
W	1.0	2.6	2.9	.7								7.2	6.9
WNW	.7	1.9	2.6	1.0								6.2	7.7
NW	.3	3.3	3.4		.2							7.2	6.8
NNW	1.5	2.7	1.5	.2								6.3	5.2
VARBL			5.8	.5								6.4	6.6
CALM												2.4	
	15.2	36.1	38.3	7.2	.2							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 582

2

GLOBAL CLIMATOLOGY BRANCH
 USAF/TAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 445 FOLDA AAF DL 73-81 SEP

STATION STATION NAME YEARS MONTH

ALL WEATHER 0600-1800

CLASS HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.4	1.4	.7									4.1	3.1
NNE	.5	.5	.7									1.2	3.9
NE	.2	.2										.3	4.7
ENE	.2	.7										.3	2.5
E	.5	.2										.7	2.7
ESE	.7	.7										.9	2.4
SE	.9	.3										1.2	2.3
SSE	1.5	.7										1.7	2.7
S	3.2	2.7	1.5	.5								7.3	5.0
SSW	1.4	3.6	2.9	.9								6.7	6.3
SW	1.5	1.9	2.7	1.7								5.5	6.6
WSW	1.4	1.7	.9	.3								3.6	5.4
W	.7	1.7	.9	.5								3.8	6.4
WNW	.5	.7	.5	.3								2.0	6.5
NW	1.7	.7	.2									2.6	3.5
NNW	3.2	.9	.2									4.3	3.7
VARBL												50.9	
CALM													
	21.5	15.5	9.6	3.6								130.0	2.4

TOTAL NUMBER OF OBSERVATIONS 586

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

17445 FOLD AAF DL 77-81 SEP
 STATION STATION NAME YEARS NORTH
 ALL WEATHER CLASS 1960-1970
 HOURS (LST)
 CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.7	1.7	.5									5.9	3.4
NNE	.3	1.7	.9									3.4	5.1
NE	.7	.9	1.2	.7								2.6	6.6
ENE	.8	.5										1.2	2.9
E	.3											.3	1.5
ESE	.5											.5	2.3
SE	1.2	.3	.3									1.9	3.3
SSE	1.4	.7	.3	.2								2.0	4.1
S	1.7	4.9	2.8	1.4								13.8	6.4
SSW	.8	5.1	4.2	2.5	.2							12.7	7.6
SW	.5	1.7	3.4	1.1	.5							7.1	8.3
WSW	.5	1.5	2.2	1.7								6.2	8.4
W	.2	.9	2.9	1.4								5.4	9.0
WNW	.9	.9	.5	.9								3.2	7.0
NW	1.1	.8	1.2	.2	.2							3.4	6.4
NNW	2.5	1.4	.3	.3								4.5	4.3
VARBL			1.4	.5								1.9	9.6
CALM												27.2	
	17.7	22.6	22.1	17.2	.8							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 647

FEDERAL CLIMATOLOGY BRANCH
 U.S. AIR FORCE
 AIR WEATHER SERVICE/MAF

SURFACE WINDS

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

STATION: I 7445 FOLDA AAF DL STATION NAME: 73-81 YEARS: SEP MONTH: 12 10-1400 HOURS (LST) CLASS: ALL WEATHER CONDITION:

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.6	1.2	1.2									4.8	4.2
NNE	.3	1.5	1.3	.7								3.8	5.3
NE	.3	1.2	1.2									7.1	5.6
ENE	.7	1.2	.5	.2								2.5	5.7
E	.8	.2										1.6	3.8
ESE	.3	.5										.8	3.6
SE	.7	.3	.5									1.5	4.9
SSE	1.3	.7	1.0	.5								3.5	5.9
S	2.6	2.6	3.1	2.1								1.5	7.7
SSW	1.5	4.1	6.6	2.7	.3							14.5	7.9
SW	.5	2.7	5.6	2.5								10.5	5.9
WSW	.8	1.5	4.7	1.9								6.2	6.7
W	1.3	1.6	3.6	2.3								8.9	8.5
WNW	1.2	1.3	.8	1.3								4.6	7.3
NW	.7	.5	.2	.3								2.3	5.8
NNW	2.3	2.6	1.3	.2								8.4	5.1
VARBL			4.8	.7								5.4	9.7
CALM												7.2	
	19.8	24.1	35.6	14.7	.3							100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 607

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1 5445 FULDA AAF DL STATION NAME FULDA AAF DL YEARS 73-81 MONTH SEP
 CLASS ALL WEATHER HOURS (LST) 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	1.5	2.2	1.5									5.2	5.1
NNE	1.1	1.5	.9									3.5	5.1
NE	.6	1.9	.7									3.2	4.8
ENE	1.1	.7	.6									2.4	4.4
E	.6	.7	.2									1.5	4.8
ESE	.4	.7		.2								.7	5.3
SE	.2	.4	.2	.2								.9	6.2
SSE	.2	1.7	.4	.2								2.4	5.8
S	2.8	4.3	2.2	1.9	.4							11.5	6.8
SSW	2.8	3.9	3.7	1.7								11.4	6.4
SW	2.0	4.1	4.7	2.2	.2							13.2	7.5
WSW	1.3	3.5	5.0	.9								12.5	7.1
W	1.1	1.5	3.5	1.5	.2							7.8	7.7
WNW	.9	1.9	1.9	1.7		.2						6.5	8.5
NW	.6	1.3	1.5									3.4	5.9
NNW	.4	2.4	1.3	.2								4.3	6.0
VARBL			2.6	.6								3.2	6.9
CALM												8.7	
	17.5	32.2	30.2	11.2	.7	.2						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 537

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 445 FIELDS AAF DL 77-81 OCT

STATION STATION NAME YEARS MONTH

ALL WEATHER 1600-2300

CLASS HOURS (L S T)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.4	.7	.2								3.9	4.6
NNE		.4	.3									1.2	5.3
NE	.2	.5	.3									1.0	5.3
ENE		.2										.2	4.0
E			.2									.2	3.0
ESE	.3	.2	.2									.7	4.8
SE	1.2	.3	.2									1.7	3.2
SSE	2.9	.5	.3	.2								3.9	3.6
S	4.4	3.4	1.5	.5								9.8	4.7
SSW	1.9	4.2	3.2	.8								10.2	6.2
SW	1.9	2.2	2.2	.8	.3							7.5	6.8
WSW	.9	.7	1.0	.8	.2							3.6	8.5
W	1.2	.8	1.7	.5	.2							4.4	7.0
WNW	1.0	1.0	.8									2.9	4.9
NW	.5	1.2										1.7	3.5
NNW	2.4	.8	.3	.2								3.7	4.0
VARBL												43.5	
CALM													
	20.4	18.3	13.1	4.1	.7							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 589

GLOBAL CLIMATOLOGY BRANCH
 USFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1 0045 FALDA AAF DL 77-81
 STATION STATION NAME YEARS
 ALL WEATHER CLASS
 1977-1981 HOURS (LST)
 NORTH
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.2	1.5	.3								5.1	5.4
NNE	.7	.9	.1									1.8	3.8
NE	.1	.7	.3									1.2	5.4
ENE	.4		.7									.7	4.6
E	.4		.8	.1								.9	6.5
ESE	.6	.1	.3									1.1	4.7
SE	.5	.1		.4								1.2	6.5
SSE	1.5	1.2	.4	.1	.1							3.4	5.2
S	3.2	4.3	7.2	.4								11.7	5.4
SSW	1.6	4.7	4.4	.9								10.8	6.6
SW	.7	1.6	3.5	1.6	.1							7.2	8.8
WSW	.2	1.5	2.0	1.6	.4	.1						5.9	9.9
W	1.2	.7	2.2	.6	.1							4.7	7.6
WNW	.9	1.3	1.9									3.6	6.6
NW	1.2	.7	1.9	.1		.1						4.1	7.7
NNW	2.5	.0	.3	.1								3.3	3.6
VARBL			.1	.1								.3	9.7
CALM												32.5	
	17.1	19.8	22.8	6.6	.9	.3						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 687

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1744F FALDA AAF DL STATION NAME 77-81 YEARS OCT MONTH 1744-1400 HOURS (LST) CLASS ALL WEATHER CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	1.9	.8	.2	.2							4.3	5.6
NNE	.5	1.5	.8	.2								3.0	5.8
NE	.5	.5	.6	.2								2.7	5.9
ENE	.8	.5	.9									2.2	5.4
E	.6		.6	.3								1.6	7.1
ESE	.3	.8	.9	.2								2.2	6.8
SE	.6	.8	.8									2.2	5.5
SSE	.5	.5	.5	.3								1.7	6.9
S	2.7	4.5	5.0	.5								12.3	5.2
SSW	1.1	5.3	3.2	1.4								15.7	7.3
SW	.5	2.6	3.3	2.7	1.1							9.5	9.5
WSW	.6	.9	3.7	2.3	.6							7.5	9.9
W	.5	.9	3.4	1.9								6.8	9.0
WNW	.5	.9	2.5	.6	.3							4.7	8.6
NW	.6	.9	1.1	.5								3.1	6.9
NNW	1.4	1.2	1.6									4.2	5.6
VARBL		.7	1.4		.2							1.7	9.6
CALM												13.5	
	12.4	24.1	35.2	17.4	2.3							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 644

WORLD CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE / MAC

SURFACE WINDS

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

STATION: 1 4447 0004 AAF DL STATION NAME: 73-81 YEARS: OCT
 CLASS: ALL WEATHER MONTH: 15 10-17 00
 CONDITION: _____ HOURS (L E T): _____

SPEED (KNTS): DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	1.3	.9									1.9	5.3
NNE	.5	7.7	1.4	.2								4.2	6.2
NE	.4	1.1	.5									2.7	5.2
ENE	.2	1.3	1.4									1.9	6.7
E			.5	.2								.7	1.2
ESE	.5	.9	.2									1.6	4.2
SE	.2	1.7	1.3									3.4	5.6
SSE	1.7	1.3	1.1	.2								3.3	5.2
S	2.2	7.5	2.5	.4								13.4	5.2
SSW	2.2	6.9	3.1	1.3								13.2	5.2
SW	1.2	3.1	5.2	1.1	.7							11.2	7.7
WSW	.7	4.7	2.2	2.0								6.9	7.4
W	.1	2.7	2.2	1.5								5.3	6.3
WNW	.2	1.2	1.8	.7	.5							5.6	6.2
NW	.4	2.2	1.1	.4								3.8	6.3
NNW	1.6	1.6	.5	.7								4.5	5.3
VARBL			.7	.2								.9	2.2
CALM												10.7	
	14.5	38.2	26.8	9.9	1.3							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 567

CENTRAL CLIMATOLOGY BRANCH
 OFFICE
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 445 HOLDA AAF CL STATION NAME 77-81 YEAR NOV
 CLASS ALL WEATHER MONTH NOV
 HOURS (LST) 1630-0300
 CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	.4	.5									2.5	3.9
NNE	.4	.6	.7									1.6	5.7
NE	.5	.9	.7	.2								2.4	6.2
ENE		.1	.5	.4								1.3	6.7
E	.2	.7										.4	4.3
ESE	.3											.2	1.7
SE	.4	.2										.5	3.3
SSE	1.1	1.5	.2									2.7	4.5
S	2.7	5.1	2.4	.2								12.4	5.2
SSW	2.4	4.1	5.6	1.5								13.5	7.1
SW	2.7	2.1	4.7	3.3	.5							12.5	8.7
WSW	1.7	2.7	3.3	2.7	.7							12.2	9.1
W	.7	2.4	3.5	1.5	.5							8.7	8.3
WNW	.7	1.1	.9	.5								2.3	6.5
NW	.7	2.2	.5									3.5	4.9
NNW	.7	.7	.4									1.5	4.4
VARBL			.2	.4	.4							.9	14.6
CALM												24.2	
	10.1	23.6	24.4	17.5	2.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 550

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 1 1040 EGLETA AAF DL STATION NAME: _____ YEARS: 77-81 MONTH: NOV
 CLASS: ALL WEATHER MONTH: _____
 HOURS (L & Y): _____
 CONDITION: _____

SPEED KNTS; DIR:	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.2	.5									2.3	4.9
NNE	.5	.6	.9	.2								2.3	6.3
NE		.2	1.1	.2								1.4	9.3
ENE	.2	.2	.5	.2								1.1	7.7
E	.2		.2	.2								.5	8.7
ESE	.2			.2								.3	8.3
SE	.2	.3										.6	3.7
SSE	1.4	.9	.3									2.6	3.6
S	3.7	5.1	2.8	.5								12.0	5.1
SSW	1.8	5.4	6.9	2.0	.2							16.0	7.6
SW	1.8	3.2	5.2	4.3	.6	.6						15.6	9.7
WSW	.6	2.3	3.5	3.4	.2							9.9	2.3
W	.2	1.2	2.9	3.1	.2							7.6	10.3
WNW	.3	.6	.8	.2								1.9	7.3
NW	.6	1.4	.6	.2								2.8	5.4
NNW	.8	1.0	1.1									3.7	5.4
VARBL			.5	.2		.2						.3	12.7
CALM												14.5	
	12.7	24.5	27.8	14.7	1.1	.6						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 648

CENTRAL CLIMATOLOGY BRANCH
 AFM 740
 WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 17 540 STATION NAME: FIENA AAF DL YEARS: 77-81 NO. MONTH: 12
 CLASS: ALL WEATHER HOUR: 0000
 CONDITION: _____

SPEED KNTS; DIR.	1 - 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	1.7									4.5	5.4
NNE	.2	1.2	1.2									2.7	6.4
NE	.2	.5	1.2	.5								2.3	6.7
ENE			.2									.3	7.5
E	.2		.7	.2								1.0	6.7
ESE	.7	.2										.8	2.2
SE	.7	.2										.8	2.3
SSE	1.7	1.0	.3	.2								3.2	4.3
S	2.0	2.3	3.5	1.2								9.0	6.5
SSW	1.3	3.2	7.8	2.5	.2							13.4	7.9
SW	.2	2.7	9.6	2.8	.5	.5						13.4	9.4
WSW	.2	1.2	4.8	7.5	.5							11.0	9.7
W	.2	1.2	5.6	3.2	.3							12.0	9.4
WNW	.2	.2	1.3	.7	.2							3.7	9.4
NW	.2	.2	1.2	.2								2.3	7.3
NNW	.2	1.0	.3	.2								2.2	5.1
VARBL			1.2	.8	.2							2.0	11.7
CALM												12.1	
	11.3	19.3	41.4	15.8	2.2	.5						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 672

U.S. AIR FORCE METEOROLOGICAL SERVICE
WIND DATA SERVICE/NAO

SURFACE WINDS

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

STATION: 14473 301 AAF DL STATION NAME: 33-81 YEARS: MONTH: 15 8-1951

CLASS: ALL WEATHER

CONDITION:

SPEED KTS	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.2
NNE	1.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.4
NE	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.4
ENE	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	7.1
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
S	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.0
SSE	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.0
SSE	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.0
SSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0
SW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0
WSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	12.0
TOTAL	17.7	24.1	34.7	17.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	6.5

TOTAL NUMBER OF OBSERVATIONS: 517

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

SURFACE WINDS

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

STATION: 1 4445 FLORIDA AAF 01 STATION NAME: 77-81 YEARS: _____
 MONTH: DEC
 CLASS: ALL WEATHER HOURS: 00-2300
 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	.0	1.1	1.7									3.7	6.3
NNE	.7	1.1	.7	.2								2.2	6.7
NE		.4										.4	4.8
ENE		.4										.8	3.0
E	.6	.4										1.0	4.7
ESE	.6	.4	.4									1.7	4.1
SE	.6	.9	.7									3.0	4.4
SSE	1.1	1.0	.6									12.0	5.5
S	1.9	5.7	3.7	1.1								14.4	6.4
SSW	3.7	5.7	5.5	1.3								12.4	9.9
SW	1.7	1.7	3.9	4.6	.7	.2						7.5	10.4
WSW	.7	1.7	3.3	2.4	1.7	.2						4.2	9.6
W	.2	.4	.9	1.2	.2							3.2	5.4
WNW	.4	1.7	.4	.4	.4							3.1	7.6
NW	.2	1.7	.7	.4								3.7	4.9
NNW	1.1	1.8	.4	.4								1.1	11.3
VARBL			.6	.6								2.1	
CALM													
	14.9	24.5	2.1	13.1	2.6	.6						100.0	5.7
TOTAL NUMBER OF OBSERVATIONS													547

2

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AFD WEATHER SERVICE/MAC

SURFACE WINDS

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

1 1449 FULDA AAF DL 73-81 DFC
 STATION STATION NAME YEARS MONTH
 ALL WEATHER 1970-1977
 CLASS HOURS (LST)
 CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	.2									2.2	4.3
NNE	.1	.5	1.9	.3								2.0	7.8
NE	.3	.7	.5									1.5	5.3
ENE	.6											.6	2.3
E	.2	.3										.5	4.3
ESE	.8		.2									1.0	3.5
SE	.3	.3	.3									1.4	4.2
SSE	1.6	1.3	.2									3.0	3.4
S	2.4	5.6	4.5	1.4								13.9	6.3
SSW	2.4	5.8	6.1	1.1								15.3	6.7
SW	1.3	3.7	4.7	1.9	.5		.2					12.9	5.5
WSW	.5	1.4	5.0	3.8	.8	.2	.2					11.8	10.8
W	.5	1.1	2.4	1.8	.3			.2				6.4	10.7
WNW	.6	.5	.5	.5								2.1	7.2
NW	.6	.3	1.0	.5								2.4	7.3
NNW	1.6	1.7	1.7									3.5	4.6
VARBL				.5								.5	15.3
CALM												25.1	
	15.7	22.7	27.5	11.8	1.6	.2	.3	.2				100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 626

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAO

SURFACE WINDS

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

1 0445 FULDA AAF OL 73-81 DEC

STATION STATION NAME YEARS MONTH

ALL WEATHER 1000-1400

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	.5	.5	.6									1.6	5.4
NNE	.5	.6	1.6	.2								2.9	6.9
NE		1.0	.6									1.6	6.5
ENE	.2	.5	.5									1.1	6.4
E	.2	.2	.2									.5	5.7
ESE			.7									.3	9.7
SE	.5	.3	.2									1.1	4.7
SSE	.6	.5	.6									1.8	5.3
S	1.5	3.4	4.4	2.1								11.3	7.8
SSW	1.9	5.4	4.9	1.6								14.2	6.8
SW	1.1	3.7	5.5	3.4	.5	.2						14.4	6.8
WSW	.6	2.4	4.4	5.3	.5							13.3	9.9
W	1.1	1.7	3.2	2.1	1.7							8.4	9.5
WNW	.5	.3	1.7	.3	.5							2.0	9.3
NW	.5	1.7	1.1	1.7	.2							3.7	6.6
NNW	.3	1.5	.2	.2								2.8	6.9
VARBL			.5	.5								1.0	11.7
CALM												17.3	
	10.7	22.8	29.8	16.7	2.6	.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 618

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 1 045 FIELD AAF DL STATION NAME 73-81 YEARS DEC MONTH
 ALL WEATHER CLASS 1517-1700 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	.4	.7	.4									1.7	5.6
NNE	.4	1.9	1.5									3.8	6.3
NE	.4	.8	.2									1.3	4.3
ENE		.2	.8									.9	7.2
E	.2											.2	1.2
ESE	.2	.4										.6	4.7
SE		.7	.4	.2								.8	9.7
SSE	1.7	.8	.4									2.4	3.7
S	2.4	4.7	2.4	.9								12.5	5.8
SSW	3.4	6.2	5.1	1.5								16.1	6.4
SW	1.7	3.6	6.4	3.8	.7	.7						15.9	6.4
WSW	.6	1.1	5.4	3.6	.9							11.6	10.5
W	.2	2.3	2.3	2.6	.2							8.1	9.5
WNW	.8	1.7	.4	.4								3.2	5.9
NW	.6	.9	.6	.8								2.8	6.9
NNW	.4	1.1	.4	.4								2.3	6.6
VARBL			.6	.4								.9	10.2
CALM												16.9	
	12.9	26.6	27.6	14.4	1.3	.2						102.9	6.2

TOTAL NUMBER OF OBSERVATIONS 533

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	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

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

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

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

ADDITIONAL EXAMPLES

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

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

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

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

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

GENERAL OUTPATROL BRANCH
 COMPTON
 41 WATSON DRIVE, WACO

CEILING VERSUS VISIBILITY

1 195

WACO, TEXAS

73-5

195

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

195

CEILING (FEET)	VISIBILITY (STATUTE MILES)																	
	25	24	23	22	21	20	19	18	17	16	15	14						
100	10.0	11.0	11.0	13.7	19.6	19.8	21.2	21.8	22.1	23.4	23.4	23.8	23.7	23.7	23.7	23.7	23.7	23.7
150	8.7	11.0	12.1	13.5	19.8	19.9	21.2	22.0	22.7	23.5	23.8	23.7	23.7	23.7	23.7	23.7	23.7	23.7
200	7.1	11.3	12.4	13.2	20.1	20.3	21.5	22.3	22.6	22.9	23.2	23.1	24.2	24.3	24.7	24.7	24.7	24.7
250	7.1	11.5	12.7	13.6	20.4	20.7	22.7	22.8	23.7	24.3	24.7	24.5	24.5	24.5	24.5	24.5	24.5	24.5
300	7.3	11.2	12.7	21.3	21.2	21.4	22.6	23.4	23.7	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
350	6.5	13.5	14.4	21.3	22.9	23.1	24.3	25.1	25.4	26.7	26.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8
400	10.3	13.7	14.5	22.1	23.2	23.4	24.6	25.4	25.7	27.1	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2
450	13.1	13.1	13.5	23.9	25.0	25.1	26.4	27.2	27.5	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
500	12.2	13.3	17.1	25.0	26.1	26.2	27.5	28.3	28.7	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
550	11.7	15.7	17.1	25.0	25.1	26.2	27.5	28.3	28.7	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
600	12.0	16.0	17.4	26.5	27.8	27.9	29.2	30.0	30.5	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
650	11.7	17.7	18.7	28.0	28.8	30.1	31.2	32.0	32.5	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
700	13.1	18.8	21.7	32.8	34.1	34.2	35.6	36.4	36.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
750	17.1	24.0	25.0	37.2	38.9	38.9	41.3	41.1	41.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
800	21.4	22.0	31.4	43.3	44.2	45.4	47.1	48.2	48.8	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
850	24.7	33.4	34.0	49.3	51.7	52.0	53.5	54.9	55.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
900	25.7	33.2	38.9	54.0	56.4	57.0	58.9	60.3	60.2	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
950	26.2	35.9	42.7	55.4	57.9	58.0	60.4	61.7	62.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
1000	27.3	37.8	47.4	61.2	64.4	65.5	67.7	70.3	71.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
1050	29.1	43.5	46.4	65.3	71.9	72.1	74.4	77.1	78.7	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
1100	29.2	44.7	48.1	69.2	74.3	75.3	78.5	81.5	82.4	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
1150	29.2	41.1	48.8	71.3	76.0	77.9	81.0	84.9	85.8	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1200	29.2	41.1	48.7	71.4	77.6	79.4	83.2	87.1	88.1	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
1250	29.4	41.4	49.1	72.1	78.2	80.1	84.0	88.2	89.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1300	29.4	41.4	49.1	72.4	79.4	80.9	85.1	89.0	89.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
1350	29.4	41.4	49.1	72.4	79.4	81.5	85.7	90.4	91.7	96.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
1400	29.4	41.4	49.1	72.4	79.4	81.5	85.9	90.6	91.5	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
1450	29.7	41.6	49.7	72.5	79.6	81.6	86.7	90.7	92.0	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1500	29.7	41.6	49.7	72.5	79.6	81.6	86.7	90.7	92.0	97.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1550	29.7	41.6	49.7	72.5	79.6	81.6	86.7	91.1	92.0	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 195

CEILING VISIBILITY
 STATION
 AIR FORCE

CEILING VERSUS VISIBILITY

STATION NAME: LA ANA 1 STATION NUMBER: 71-51

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

CEILING	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
200	7.0	11.7	11.7	12.4	15.9	16.1	17.9	18.3	18.7	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
180	2.1	12.4	14.2	12.8	2.5	2.7	22.2	22.2	23.7	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
160	9.8	13.5	15.1	15.8	15.7	7.9	22.7	23.1	23.4	23.8	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
140	2.7	12.6	15.2	14.8	2.7	2.2	22.7	23.1	23.4	23.6	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
120	9.7	13.7	15.7	14.8	22.9	21.1	22.2	23.3	23.4	23.8	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
100	9.3	14.1	17.6	22.3	21.5	21.3	23.8	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
80	12.3	14.4	14.7	21.3	24.1	23.3	25.1	25.8	25.8	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
60	12.3	12.6	17.1	22.3	24.2	24.4	26.2	26.3	26.3	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
40	12.1	16.1	2.0	24.0	27.7	27.3	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
20	12.1	17.4	21.2	27.2	22.9	22.1	31.1	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
0	13.4	19.4	21.2	27.3	29.2	29.1	31.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
1000	13.2	17.2	21.1	26.2	31.2	31.4	32.2	32.4	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
900	14.2	22.7	25.1	31.7	33.7	33.9	35.7	36.1	36.4	36.8	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
800	12.1	24.0	22.4	23.3	35.0	36.1	37.9	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
700	12.1	23.4	2.0	34.4	39.6	39.7	41.8	42.1	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
600	21.5	3.0	33.1	42.7	41.2	48.5	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
500	23.0	23.2	37.0	46.3	47.2	50.9	53.3	54.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
400	27.3	32.5	41.2	56.7	51.4	61.2	64.7	65.2	65.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
300	27.0	32.6	42.1	67.3	61.4	62.3	65.4	66.3	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
200	26.3	41.2	46.1	64.3	63.9	62.3	74.1	75.2	76.4	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
100	28.9	41.7	48.7	69.5	74.7	75.0	82.0	81.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
0	29.1	43.2	49.5	70.7	76.7	76.0	84.1	85.3	87.0	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
1000	29.1	43.4	51.7	73.4	82.0	82.1	87.7	89.0	91.4	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
900	29.1	43.4	51.7	74.2	82.0	83.3	89.0	91.1	92.8	92.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
800	29.1	43.4	51.4	74.9	82.0	84.4	90.7	92.7	94.5	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
700	29.1	43.4	51.4	74.9	82.0	84.0	91.6	94.0	96.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
600	29.1	43.4	51.4	74.9	82.4	85.2	92.1	94.9	97.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
500	29.1	43.4	51.4	74.9	82.6	85.3	92.3	95.2	97.6	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
400	29.1	43.4	51.4	74.9	82.6	85.3	92.3	95.2	97.6	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
300	29.1	43.4	51.4	74.9	82.6	85.3	92.3	95.2	97.6	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
200	29.1	43.4	51.4	74.9	82.6	85.3	92.3	95.2	97.6	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
100	29.1	43.4	51.4	74.9	82.6	85.3	92.3	95.2	97.6	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 60

U.S. AIR FORCE
 CEILING VERSUS VISIBILITY
 FROM HOURLY OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

VISIBILITY IN FEET

CEILING	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	55	60	65	70	75	80	85	90	95	100		
0-5	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.7	6.2	8.1	10.5	13.5	17.1	21.4	26.4	32.1	38.5	45.6	53.4	61.9	71.1	80.9	91.4	102.6	114.4	126.8	139.8	
6-10	0.7	0.9	1.2	1.6	2.1	2.8	3.7	4.9	6.4	8.3	10.7	13.7	17.3	21.6	26.6	32.3	38.7	45.8	53.6	62.1	71.3	81.1	91.6	102.8	114.6	127.0	139.9	153.3
11-15	0.8	1.0	1.3	1.7	2.2	2.9	3.8	5.0	6.5	8.4	10.8	13.8	17.4	21.7	26.7	32.4	38.8	45.9	53.7	62.2	71.4	81.2	91.7	102.9	114.7	127.1	140.0	153.4
16-20	0.9	1.1	1.4	1.8	2.3	3.0	3.9	5.1	6.6	8.5	10.9	13.9	17.5	21.8	26.8	32.5	38.9	46.0	53.8	62.3	71.5	81.3	91.8	103.0	114.8	127.2	140.1	153.5
21-25	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.2	6.7	8.6	11.0	14.0	17.6	21.9	26.9	32.6	39.0	46.1	53.9	62.4	71.6	81.4	91.9	103.1	114.9	127.3	140.2	153.6
26-30	1.1	1.3	1.6	2.0	2.5	3.2	4.1	5.3	6.8	8.7	11.1	14.1	17.7	22.0	27.0	32.7	39.1	46.2	54.0	62.5	71.7	81.5	92.0	103.2	115.0	127.4	140.3	153.7
31-35	1.2	1.4	1.7	2.1	2.6	3.3	4.2	5.4	6.9	8.8	11.2	14.2	17.8	22.1	27.1	32.8	39.2	46.3	54.1	62.6	71.8	81.6	92.1	103.3	115.1	127.5	140.4	153.8
36-40	1.3	1.5	1.8	2.2	2.7	3.4	4.3	5.5	7.0	8.9	11.3	14.3	17.9	22.2	27.2	32.9	39.3	46.4	54.2	62.7	71.9	81.7	92.2	103.4	115.2	127.6	140.5	153.9
41-45	1.4	1.6	1.9	2.3	2.8	3.5	4.4	5.6	7.1	9.0	11.4	14.4	18.0	22.3	27.3	33.0	39.4	46.5	54.3	62.8	72.0	81.8	92.3	103.5	115.3	127.7	140.6	154.0
46-50	1.5	1.7	2.0	2.4	2.9	3.6	4.5	5.7	7.2	9.1	11.5	14.5	18.1	22.4	27.4	33.1	39.5	46.6	54.4	62.9	72.1	81.9	92.4	103.6	115.4	127.8	140.7	154.1
51-55	1.6	1.8	2.1	2.5	3.0	3.7	4.6	5.8	7.3	9.2	11.6	14.6	18.2	22.5	27.5	33.2	39.6	46.7	54.5	63.0	72.2	82.0	92.5	103.7	115.5	127.9	140.8	154.2
56-60	1.7	1.9	2.2	2.6	3.1	3.8	4.7	5.9	7.4	9.3	11.7	14.7	18.3	22.6	27.6	33.3	39.7	46.8	54.6	63.1	72.3	82.1	92.6	103.8	115.6	128.0	140.9	154.3
61-65	1.8	2.0	2.3	2.7	3.2	3.9	4.8	6.0	7.5	9.4	11.8	14.8	18.4	22.7	27.7	33.4	39.8	46.9	54.7	63.2	72.4	82.2	92.7	103.9	115.7	128.1	141.0	154.4
66-70	1.9	2.1	2.4	2.8	3.3	4.0	4.9	6.1	7.6	9.5	11.9	14.9	18.5	22.8	27.8	33.5	39.9	47.0	54.8	63.3	72.5	82.3	92.8	104.0	115.8	128.2	141.1	154.5
71-75	2.0	2.2	2.5	2.9	3.4	4.1	5.0	6.2	7.7	9.6	12.0	15.0	18.6	22.9	27.9	33.6	40.0	47.1	54.9	63.4	72.6	82.4	92.9	104.1	115.9	128.3	141.2	154.6
76-80	2.1	2.3	2.6	3.0	3.5	4.2	5.1	6.3	7.8	9.7	12.1	15.1	18.7	23.0	28.0	33.7	40.1	47.2	55.0	63.5	72.7	82.5	93.0	104.2	116.0	128.4	141.3	154.7
81-85	2.2	2.4	2.7	3.1	3.6	4.3	5.2	6.4	7.9	9.8	12.2	15.2	18.8	23.1	28.1	33.8	40.2	47.3	55.1	63.6	72.8	82.6	93.1	104.3	116.1	128.5	141.4	154.8
86-90	2.3	2.5	2.8	3.2	3.7	4.4	5.3	6.5	8.0	9.9	12.3	15.3	18.9	23.2	28.2	33.9	40.3	47.4	55.2	63.7	72.9	82.7	93.2	104.4	116.2	128.6	141.5	154.9
91-95	2.4	2.6	2.9	3.3	3.8	4.5	5.4	6.6	8.1	10.0	12.4	15.4	19.0	23.3	28.3	34.0	40.4	47.5	55.3	63.8	73.0	82.8	93.3	104.5	116.3	128.7	141.6	155.0
96-100	2.5	2.7	3.0	3.4	3.9	4.6	5.5	6.7	8.2	10.1	12.5	15.5	19.1	23.4	28.4	34.1	40.5	47.6	55.4	63.9	73.1	82.9	93.4	104.6	116.4	128.8	141.7	155.1

TOTAL NUMBER OF OBSERVATIONS 56

CEILING VERSUS VISIBILITY

1 1944 MONTH AREA STATE NAME 70-61

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

VISIBILITY: STATUTE MILES

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1000	1.7	2.4	3.1	4.8	5.7	6.5	8.1	10.7	17.7	19.8	18.8	18.5	18.7
900	5.3	5.7	11.7	18.4	18.2	19.5	19.7	22.0	27.7	23.8	28.4	28.1	27.7
800	5.7	5.5	11.7	17.5	17.7	19.3	20.1	21.5	21.7	24.3	24.4	24.4	24.4
700	5.7	5.4	11.7	17.5	17.7	18.7	20.1	21.5	21.7	24.3	24.4	24.4	24.4
600	5.7	5.7	11.7	17.3	17.7	17.3	21.8	21.5	21.7	24.3	24.4	24.4	24.4
500	5.7	5.7	11.7	17.4	18.2	18.5	21.5	22.6	23.0	24.1	27.9	27.7	27.7
400	5.7	13.1	17.7	21.5	20.7	24.7	25.8	27.1	27.7	30.4	32.0	31.5	31.5
300	5.5	13.5	16.1	23.2	24.7	26.1	27.2	28.4	33.6	32.7	34.5	34.1	34.1
200	5.7	13.7	15.1	23.5	23.7	25.4	27.5	28.7	29.2	31.7	31.3	31.4	31.4
100	5.4	13.4	17.2	24.7	27.4	27.9	29.2	30.3	32.1	34.1	34.1	34.5	34.5
50	5.4	13.5	17.1	25.7	25.4	29.1	32.7	31.7	32.1	35.2	36.0	36.0	36.0
20	11.1	14.1	21.2	25.4	31.5	30.1	35.7	35.4	35.3	40.2	40.2	40.2	40.2
10	10.1	14.7	24.1	31.5	34.9	35.4	36.9	38.8	39.4	41.1	47.7	44.4	44.4
5	14.1	21.1	27.1	34.5	37.9	38.2	41.3	40.2	43.7	47.6	47.6	47.6	47.6
2	14.5	23.0	27.1	37.4	41.1	41.7	43.7	43.1	47.1	51.3	51.3	51.3	51.3
1	18.4	27.2	31.7	43.4	47.6	46.7	51.2	54.3	55.2	61.7	61.7	61.7	61.7
0	16.7	27.7	31.7	44.5	47.7	46.4	53.2	56.4	57.7	62.2	63.2	63.2	63.2
0	17.5	29.1	33.7	47.2	51.5	53.7	57.5	61.7	63.1	69.2	68.6	68.6	68.6
0	17.5	29.8	34.1	48.9	51.5	53.2	57.8	61.8	66.7	73.6	71.9	74.7	74.7
0	17.4	29.2	33.7	48.6	52.9	54.1	58.4	61.7	71.7	75.5	73.6	77.7	77.7
0	17.3	29.7	35.5	51.5	51.7	51.4	55.5	71.1	72.7	81.8	81.1	81.1	81.1
0	17.3	29.3	35.7	54.5	51.4	53.2	57.4	72.3	75.7	81.9	84.7	84.7	84.7
0	17.3	29.1	35.7	54.5	51.4	53.2	57.4	73.0	76.2	85.3	85.8	86.7	86.6
0	17.3	29.2	35.7	54.7	51.8	53.7	58.1	74.7	77.7	86.9	87.7	88.1	88.1
0	17.3	29.3	35.7	55.5	52.1	54.1	59.6	75.1	77.7	87.8	88.7	89.1	89.1
0	17.3	29.3	35.7	55.5	52.1	54.3	59.9	75.7	78.5	88.9	89.7	90.1	90.1
0	17.3	29.3	35.7	55.5	52.1	54.3	59.9	75.7	78.5	89.2	89.7	90.5	90.5
0	17.3	29.3	35.7	55.5	52.1	54.3	59.9	75.7	78.5	89.2	89.7	90.5	90.5
0	17.3	29.3	35.7	55.5	52.1	54.3	59.9	75.7	78.5	89.2	89.7	90.5	90.5

TOTAL NUMBER OF OBSERVATIONS 47

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

VISIBILITY IN STATUTE MILES

CEILING	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1000	10.1	17.7	14.8	21.7	21.1	21.1	22.3	22.7	21.1	23.0	21.0	21.7	21.0	21.0	21.7	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
900	14.8	17.7	22.7	14.2	14.1	25.2	26.1	26.7	27.3	21.0	27.4	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
800	10.1	10.7	21.3	21.7	23.0	16.3	27.5	27.4	29.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
700	10.1	10.7	24.7	22.7	23.7	17.1	28.2	28.6	28.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
600	10.1	10.7	24.4	22.7	22.2	17.5	28.7	29.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
500	10.1	10.7	24.0	21.7	21.2	17.5	28.7	29.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
400	10.1	10.6	17.1	25.0	27.0	17.2	23.5	24.7	20.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
300	10.1	10.6	21.1	22.3	21.0	18.2	13.6	14.7	21.1	35.7	26.7	30.7	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
200	10.1	21.2	24.0	21.0	24.7	24.9	16.4	17.2	25.1	35.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
100	10.1	20.1	24.7	20.1	21.2	27.2	19.4	41.1	41.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
0	10.1	24.7	21.7	33.8	21.7	21.4	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
1000	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
900	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
800	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
700	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
600	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
500	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
400	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
300	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
200	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
100	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2

TOTAL NUMBER OF OBSERVATIONS _____

UNITED STATES AIR FORCE
 AIR FORCE DISTRICT OFFICE
 WASHINGTON, D. C. 20330

CEILING VERSUS VISIBILITY

STATION NAME _____

YEAR _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY STATISTICAL TABLE

CEILING FEET	26	28	30	32	34	36	38	40	42	44	46	48	50	55	60	65	70	75	80	85	90	95	100
0	17.9	17.1	16.8	16.4	16.0	15.7	15.4	15.1	14.8	14.5	14.2	13.9	13.6	13.3	13.0	12.7	12.4	12.1	11.8	11.5	11.2	10.9	10.6
10	17.4	16.9	16.4	15.9	15.4	15.0	14.6	14.2	13.8	13.4	13.0	12.6	12.2	11.8	11.4	11.0	10.6	10.2	9.8	9.4	9.0	8.6	8.2
20	16.9	16.4	15.9	15.4	14.9	14.5	14.0	13.6	13.2	12.8	12.4	12.0	11.6	11.2	10.8	10.4	10.0	9.6	9.2	8.8	8.4	8.0	7.6
30	16.4	15.9	15.4	14.9	14.4	14.0	13.5	13.1	12.7	12.3	11.9	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.7	8.3	7.9	7.5	7.1
40	15.9	15.4	14.9	14.4	13.9	13.5	13.0	12.6	12.2	11.8	11.4	11.0	10.6	10.2	9.8	9.4	9.0	8.6	8.2	7.8	7.4	7.0	6.6
50	15.4	14.9	14.4	13.9	13.4	13.0	12.5	12.1	11.7	11.3	10.9	10.5	10.1	9.7	9.3	8.9	8.5	8.1	7.7	7.3	6.9	6.5	6.1
60	14.9	14.4	13.9	13.4	12.9	12.5	12.0	11.6	11.2	10.8	10.4	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6
70	14.4	13.9	13.4	12.9	12.4	12.0	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.7	8.3	7.9	7.5	7.1	6.7	6.3	5.9	5.5	5.1
80	13.9	13.4	12.9	12.4	11.9	11.5	11.0	10.6	10.2	9.8	9.4	9.0	8.6	8.2	7.8	7.4	7.0	6.6	6.2	5.8	5.4	5.0	4.6
90	13.4	12.9	12.4	11.9	11.4	11.0	10.5	10.1	9.7	9.3	8.9	8.5	8.1	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.9	4.5	4.1
100	12.9	12.4	11.9	11.4	10.9	10.5	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6
110	12.4	11.9	11.4	10.9	10.4	10.0	9.5	9.1	8.7	8.3	7.9	7.5	7.1	6.7	6.3	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1
120	11.9	11.4	10.9	10.4	9.9	9.5	9.0	8.6	8.2	7.8	7.4	7.0	6.6	6.2	5.8	5.4	5.0	4.6	4.2	3.8	3.4	3.0	2.6
130	11.4	10.9	10.4	9.9	9.4	9.0	8.5	8.1	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.9	4.5	4.1	3.7	3.3	2.9	2.5	2.1
140	10.9	10.4	9.9	9.4	8.9	8.5	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.2	2.8	2.4	2.0	1.6
150	10.4	9.9	9.4	8.9	8.4	8.0	7.5	7.1	6.7	6.3	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1	2.7	2.3	1.9	1.5	1.1
160	9.9	9.4	8.9	8.4	7.9	7.5	7.0	6.6	6.2	5.8	5.4	5.0	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	1.4	1.0	0.6
170	9.4	8.9	8.4	7.9	7.4	7.0	6.5	6.1	5.7	5.3	4.9	4.5	4.1	3.7	3.3	2.9	2.5	2.1	1.7	1.3	0.9	0.5	0.1
180	8.9	8.4	7.9	7.4	6.9	6.5	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.2	2.8	2.4	2.0	1.6	1.2	0.8	0.4	0.0	0.0
190	8.4	7.9	7.4	6.9	6.4	6.0	5.5	5.1	4.7	4.3	3.9	3.5	3.1	2.7	2.3	1.9	1.5	1.1	0.7	0.3	0.0	0.0	0.0
200	7.9	7.4	6.9	6.4	5.9	5.5	5.0	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	1.4	1.0	0.6	0.2	0.0	0.0	0.0	0.0
210	7.4	6.9	6.4	5.9	5.4	5.0	4.5	4.1	3.7	3.3	2.9	2.5	2.1	1.7	1.3	0.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0
220	6.9	6.4	5.9	5.4	4.9	4.5	4.0	3.6	3.2	2.8	2.4	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230	6.4	5.9	5.4	4.9	4.4	4.0	3.5	3.1	2.7	2.3	1.9	1.5	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240	5.9	5.4	4.9	4.4	3.9	3.5	3.0	2.6	2.2	1.8	1.4	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250	5.4	4.9	4.4	3.9	3.4	3.0	2.5	2.1	1.7	1.3	0.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260	4.9	4.4	3.9	3.4	2.9	2.5	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270	4.4	3.9	3.4	2.9	2.4	2.0	1.5	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280	3.9	3.4	2.9	2.4	1.9	1.5	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290	3.4	2.9	2.4	1.9	1.4	1.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300	2.9	2.4	1.9	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS _____

FAA FORM 740
 FEDERAL AVIATION ADMINISTRATION
 WASHINGTON, D. C. 20515

CEILING VERSUS VISIBILITY

STATION NAME _____

73-01

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY - STATUTE MILES

CEILING (FEET)	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
1000	11.3	11.3	17.7	14.6	16.4	16.7	17.7	18.8	19.0	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
900	12.4	17.8	17.8	21.9	24.2	24.4	25.4	26.6	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
800	13.1	13.3	17.8	23.4	25.7	25.1	27.0	28.3	29.2	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
700	12.2	13.6	19.7	23.7	25.8	26.3	27.3	28.6	29.1	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
600	11.4	13.9	19.7	24.0	26.7	26.6	27.6	28.8	29.4	30.0	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
500	11.3	19.7	22.2	24.6	26.8	27.2	28.1	29.4	29.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
400	14.3	19.7	22.4	25.2	27.6	28.3	29.4	30.3	31.3	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
300	15.7	21.0	21.0	24.7	27.4	28.0	31.0	32.6	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
200	17.1	23.3	24.4	29.9	31.2	32.7	35.0	36.4	37.0	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
100	17.4	23.6	24.7	31.1	32.7	34.1	35.4	37.1	37.7	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
0	17.7	24.0	25.1	31.9	34.2	34.6	36.3	37.9	38.0	39.3	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
1000	19.1	25.5	26.6	32.7	35.3	36.7	38.7	40.1	40.6	41.5	41.7	41.8	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
900	19.7	26.1	27.4	33.0	37.5	37.9	39.7	41.4	41.9	42.9	43.0	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
800	20.2	26.0	29.5	35.6	41.6	41.6	42.8	44.4	45.0	46.3	46.5	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
700	20.3	31.7	32.2	40.7	44.8	45.4	47.4	49.2	49.8	51.0	51.3	51.4	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
600	25.3	37.3	37.3	47.8	51.2	52.0	54.2	56.7	57.2	59.3	59.4	59.9	60.1	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
500	27.4	41.0	42.1	51.9	57.7	57.7	60.0	62.1	62.6	64.7	64.8	65.2	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
400	29.2	44.8	45.5	57.2	62.5	63.6	66.2	68.4	68.9	71.4	71.6	72.0	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
300	29.1	44.0	46.0	57.9	63.3	64.4	67.2	69.4	69.7	72.5	72.7	73.1	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
200	29.2	45.2	46.5	62.2	61.1	67.2	72.6	74.9	75.4	78.3	78.3	78.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
100	31.2	46.1	51.0	57.5	71.7	73.2	76.4	78.8	77.7	82.3	82.3	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
1000	31.1	47.7	52.4	64.0	75.6	75.1	81.5	84.3	85.4	88.8	89.1	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
900	31.1	47.8	52.1	69.1	77.2	78.6	82.2	85.2	86.7	89.7	90.1	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
800	31.7	47.6	52.7	69.1	77.2	78.9	82.8	85.7	86.9	90.8	91.2	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
700	31.3	47.2	52.7	69.1	77.0	79.1	81.2	86.8	86.3	92.1	92.6	93.5	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
600	31.3	47.6	52.7	69.2	77.4	79.2	83.3	87.0	88.8	92.7	93.1	94.1	94.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
500	31.3	49.2	52.7	69.2	77.4	79.2	83.3	87.0	88.8	92.7	93.1	94.1	94.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
400	31.3	47.8	52.7	69.2	77.4	79.2	83.3	87.0	88.8	92.7	93.1	94.1	94.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
300	31.3	49.8	52.7	69.2	77.4	79.2	83.3	87.0	88.8	93.1	93.5	94.5	94.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS 225

CENTRAL CLIMATOLOGY BRANCH
 WAFSC/TAC
 AIR WEATHER SERVICE AMAC

CEILING VERSUS VISIBILITY

1 1955 FIELD NO. 11111 YEAR 77-51 STATION NAME YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

CEILING FEET	VISIBILITY STATUTE MILES															
	20	20	25	24	23	22	22	21	21	21	20	20	15	15	10	10
10000	17.9	18.6	14.7	18.3	19.4	19.4	19.7	20.4	20.4	20.8	20.8	20.8	20.8	20.8	20.8	20.8
8000	18.3	22.8	21.7	28.3	29.7	29.7	29.7	30.8	30.8	31.1	31.1	31.1	31.1	31.1	31.1	31.1
6000	17.7	24.3	25.1	29.9	31.4	31.4	31.7	32.5	32.5	32.8	32.8	32.8	32.8	32.8	32.8	32.8
4000	18.2	24.8	25.1	31.1	31.7	31.7	32.1	32.8	32.8	33.1	33.1	33.1	33.1	33.1	33.1	33.1
2000	18.2	24.8	25.1	31.1	31.7	31.7	32.1	32.8	32.8	33.1	33.1	33.1	33.1	33.1	33.1	33.1
1000	18.2	24.8	25.1	31.1	31.7	31.7	32.1	32.8	32.8	33.1	33.1	33.1	33.1	33.1	33.1	33.1
500	17.1	23.3	27.4	32.2	33.7	33.7	34.2	35.1	35.1	35.4	35.4	35.4	35.4	35.4	35.4	35.4
300	20.3	27.7	32.1	34.3	35.9	35.9	36.4	37.3	37.3	37.6	37.6	37.6	37.6	37.6	37.6	37.6
200	22.2	29.9	31.7	37.5	38.6	38.6	39.1	39.9	39.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2
100	22.2	31.1	33.7	39.1	40.8	40.8	41.3	42.3	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6
50	22.2	31.1	33.7	39.1	40.8	40.8	41.3	42.3	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6
25	23.7	33.1	35.7	41.3	43.0	43.0	43.5	44.5	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8
15	25.1	35.4	38.2	44.7	45.4	45.4	46.9	47.9	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2
10	25.0	37.9	40.8	47.9	47.7	49.7	50.1	51.2	51.6	52.1	52.0	52.2	52.2	52.2	52.2	52.2
5	37.2	42.9	45.1	53.3	55.3	55.3	55.8	56.8	57.2	57.7	57.8	57.8	57.8	57.8	57.8	57.8
3	37.7	52.8	51.2	64.8	67.1	67.1	67.5	68.8	69.5	70.3	70.4	70.4	70.4	70.4	70.4	70.4
2	41.3	57.7	61.2	71.4	73.7	73.7	74.3	75.4	76.2	76.9	77.1	77.1	77.1	77.1	77.1	77.1
1	43.2	57.7	64.9	77.2	79.7	79.9	80.6	82.2	82.8	83.9	84.7	84.8	84.8	84.8	84.8	84.8
0	43.2	51.2	65.1	73.6	81.1	81.2	82.0	83.3	84.7	85.2	85.4	85.4	85.4	85.4	85.4	85.4
0	44.3	52.3	67.3	81.1	83.7	83.9	84.9	86.4	87.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8
0	45.3	63.2	69.7	82.8	85.9	86.2	87.3	88.9	90.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5
0	45.3	64.3	69.7	85.1	88.9	89.2	90.4	92.3	94.1	95.6	95.9	95.9	95.9	95.9	95.9	95.9
0	45.3	64.5	69.7	85.7	89.5	89.8	91.0	92.9	94.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7
0	45.3	64.6	71.1	85.9	89.8	91.2	91.4	93.3	95.4	97.0	97.2	97.3	97.3	97.3	97.3	97.3
0	45.3	64.6	71.1	86.1	91.4	91.7	92.2	94.5	96.4	98.1	98.4	98.4	98.4	98.4	98.4	98.4
0	45.4	64.8	71.1	86.2	91.7	91.3	92.8	95.1	97.2	98.8	99.1	99.1	99.1	99.1	99.1	99.1
0	45.4	64.8	71.1	86.2	91.7	91.3	92.8	95.1	97.2	98.8	99.1	99.1	99.1	99.1	99.1	99.1
0	45.4	64.8	71.1	86.4	90.8	91.4	92.2	95.4	97.6	99.4	99.7	99.7	99.7	99.7	99.7	99.7
0	45.4	64.8	71.1	86.4	90.8	91.4	92.9	95.4	97.6	99.4	99.7	99.7	99.7	99.7	99.7	99.7
0	45.4	64.8	71.1	86.4	90.8	91.4	92.9	95.4	97.6	99.4	99.7	99.7	99.7	99.7	99.7	99.7
0	45.4	64.8	71.1	86.4	90.8	91.4	92.9	95.4	97.6	99.4	99.7	99.7	99.7	99.7	99.7	99.7
0	45.4	64.8	71.1	86.4	90.8	91.4	92.9	95.6	97.8	99.6	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 576

GENERAL CLIMATOLOGY BRANCH
 WASHINGTON, D. C.
 AIR WEATHER SERVICE/MAF

CEILING VERSUS VISIBILITY

10-10-55 0-14-5 (OL A) 70-51

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13
1000	14.3	21.3	21.7	22.8	22.7	22.7	23.2	23.7	23.2	23.7	23.7	23.7	23.7	23.7	23.7
900	15.9	23.1	23.2	31.5	32.4	32.5	32.7	33.2	33.4	33.4	33.4	33.4	33.4	33.4	33.4
800	17.1	23.2	23.4	31.8	32.7	32.9	33.2	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
700	19.3	23.4	23.6	32.2	32.9	33.2	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
600	19.8	23.7	23.9	32.4	32.7	32.4	33.4	33.9	33.7	33.4	33.4	33.4	33.4	33.4	33.4
500	20.3	23.9	24.1	33.4	34.4	34.3	34.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
400	22.4	25.5	27.7	36.3	37.7	37.3	37.9	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
300	23.4	34.6	36.1	39.3	42.4	42.2	41.1	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
200	25.3	35.3	33.7	42.2	42.7	43.2	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
100	26.7	31.7	32.5	42.7	44.6	44.9	45.4	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
0	26.7	31.2	40.1	44.2	45.1	45.4	46.7	46.3	46.7	46.7	46.7	46.7	46.7	46.7	46.7
0	27.7	32.1	41.5	46.2	45.8	47.2	47.7	48.3	48.2	48.2	48.2	48.2	48.2	48.2	48.2
0	28.7	41.5	44.7	44.7	44.5	47.9	50.4	50.5	50.7	50.5	50.5	50.5	50.5	50.5	50.5
0	30.2	42.6	43.7	43.7	44.6	50.1	55.3	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
0	34.4	51.3	53.5	54.4	51.2	51.0	61.4	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6
0	42.3	58.2	62.5	71.7	71.6	72.1	72.8	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5
0	43.7	51.4	67.1	73.7	74.5	75.1	75.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
0	47.2	65.2	62.5	82.4	81.1	81.2	82.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
0	47.3	66.3	71.7	82.7	81.3	82.4	83.8	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
0	48.3	68.5	72.4	82.1	84.0	84.7	86.4	88.0	88.8	89.2	89.2	89.2	89.2	89.2	89.2
0	49.3	66.6	77.9	83.1	85.2	86.2	88.3	90.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
0	49.4	67.3	71.9	85.2	88.5	89.7	91.7	94.7	94.7	95.7	95.9	96.2	96.2	96.2	96.2
0	48.4	67.3	71.9	86.6	89.2	93.4	92.6	96.3	96.7	97.1	97.2	97.4	97.4	97.4	97.4
0	48.4	67.3	71.9	86.6	89.2	92.4	92.5	96.3	96.7	97.1	97.2	97.4	97.4	97.4	97.4
0	43.4	67.7	71.9	86.6	89.3	92.5	92.8	96.4	96.7	97.8	97.9	98.1	98.1	98.1	98.1
0	48.4	67.3	71.9	86.6	89.3	91.9	92.1	97.1	97.1	97.4	98.5	98.6	98.8	98.8	98.8
0	48.4	67.3	71.9	86.7	89.5	91.7	92.3	97.2	97.8	99.1	99.3	99.5	99.5	99.5	99.5
0	48.4	67.3	71.9	86.7	89.5	91.0	93.3	97.2	97.8	99.1	99.3	99.5	99.5	99.5	99.5
0	48.4	67.3	71.9	86.7	89.5	91.0	93.3	97.2	97.8	99.3	99.3	99.5	99.5	99.5	99.5
0	48.4	67.3	71.9	86.7	89.5	91.0	93.3	97.2	97.8	99.3	99.3	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 591

GENERAL CLIMATELOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/NAO

CEILING VERSUS VISIBILITY

1 445 FOLIA AAF 01

72-53

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY MILES	VISIBILITY - STATUTE MILES															
	20	20	20	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	11.4	13.4	20.1	25.8	26.9	27.2	27.8	28.3	27.7	30.5	30.8	30.8	31.1	31.7	31.7	31.9
900	13.6	19.6	27.5	28.7	31.1	31.1	32.1	33.2	32.6	35.7	35.8	35.3	36.1	36.5	36.5	36.8
800	13.3	19.9	27.4	31.1	31.6	32.1	32.6	33.7	34.4	36.1	36.3	36.5	36.8	37.2	37.1	37.4
700	13.3	19.9	27.4	31.1	31.6	32.1	32.6	33.7	34.4	36.1	36.3	36.5	36.8	37.2	37.1	37.4
600	14.1	20.3	24.1	31.5	31.9	32.4	32.9	34.2	34.8	36.6	36.8	37.1	37.1	37.4	37.6	37.8
500	14.7	20.9	25.7	31.3	32.7	33.2	33.7	35.1	35.7	37.4	37.5	37.9	38.1	38.4	38.6	38.8
400	15.2	21.7	25.6	32.4	33.9	34.5	35.2	36.5	37.1	38.9	39.0	39.4	39.5	39.9	40.0	40.2
300	16.7	22.2	27.7	33.8	37.8	38.5	39.4	41.5	42.7	44.2	45.4	45.8	45.7	46.4	46.5	46.7
200	15.3	24.3	25.4	37.1	38.1	38.2	40.7	43.1	44.1	46.7	47.0	47.3	47.5	48.1	48.3	48.5
100	16.2	24.3	27.7	37.6	39.7	40.5	41.3	43.7	44.7	47.3	47.3	48.0	48.1	48.2	48.3	48.4
50	17.3	25.5	31.8	39.1	41.2	42.2	42.3	45.1	46.4	48.2	48.4	49.5	49.8	50.4	50.6	50.8
25	18.5	28.7	34.1	43.1	45.2	46.1	46.8	49.5	50.4	53.2	53.3	53.8	54.0	54.8	54.9	55.1
15	19.2	31.6	36.8	46.8	47.3	48.1	51.9	53.8	54.5	57.5	58.0	58.2	58.3	59.0	59.2	61.4
10	21.4	32.9	39.1	49.8	52.5	53.5	54.6	57.7	58.5	61.8	62.7	62.4	62.5	63.2	63.4	63.6
5	21.7	34.2	41.7	52.2	55.4	56.8	57.7	61.4	61.6	64.2	65.2	65.5	65.8	66.5	66.7	66.9
2	22.7	35.3	42.3	54.1	57.9	59.2	60.3	63.4	64.2	67.4	67.2	68.1	68.4	68.1	69.2	71.2
1	24.3	39.4	45.3	59.8	64.7	65.5	67.1	71.7	71.5	74.9	75.4	75.5	75.9	76.5	76.7	78.1
0.5	24.3	39.4	47.0	61.0	64.2	65.8	67.4	71.5	71.4	75.2	75.7	75.8	76.3	76.1	77.7	79.4
0.25	25.3	41.6	52.5	64.3	65.9	72.7	72.4	76.3	76.8	82.2	82.7	81.2	81.2	81.2	82.1	84.4
0.1	27.7	42.5	52.7	66.0	71.3	73.1	75.0	82.9	79.7	87.3	84.7	84.4	84.2	85.6	85.7	88.7
0.05	27.4	44.1	52.5	68.7	74.1	78.3	78.1	82.2	83.7	97.0	87.5	88.5	88.5	89.1	89.7	91.9
0.025	27.4	44.1	52.5	69.4	74.7	76.8	79.1	83.1	84.7	88.0	88.5	89.0	89.6	90.3	90.4	93.1
0.01	27.4	44.1	52.7	69.7	75.2	77.3	79.7	83.3	84.4	88.7	89.1	89.2	90.4	91.1	91.2	93.8
0.005	27.4	44.1	52.8	71.2	75.9	78.1	80.6	84.8	85.6	89.6	90.1	90.5	91.0	92.5	92.7	95.7
0.0025	27.4	44.1	52.9	71.4	75.9	78.3	80.8	84.8	85.7	89.8	90.3	91.2	92.5	92.7	93.4	96.2
0.001	27.4	44.1	52.9	70.2	75.9	78.1	82.6	84.9	85.9	97.4	97.7	91.7	93.2	94.1	94.7	97.1
0.0005	27.4	44.1	53.1	70.3	76.0	78.1	82.7	85.3	86.2	97.3	91.2	92.2	93.5	94.7	94.5	97.4
0.00025	27.4	44.1	53.1	70.3	75.7	78.1	82.7	85.3	86.2	97.2	91.2	92.2	93.5	94.3	94.5	97.7
0.0001	27.4	44.1	53.1	70.3	75.7	78.1	82.7	85.3	86.2	97.2	91.2	92.2	93.5	94.3	94.5	97.7
0.00005	27.4	44.1	53.1	70.3	75.7	78.1	82.7	85.3	86.2	97.2	91.2	92.2	93.5	94.3	94.5	97.7

TOTAL NUMBER OF OBSERVATIONS 617

GENERAL METEOROLOGICAL BRANCH
 CEILING-TAC
 AIR WEATHER SERVICE WAC

CEILING VERSUS VISIBILITY

1 446
 STATION

PULLA AAF DL

7-53

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

VISIBILITY	VISIBILITY - STATUTE MILES														
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13
15.0	15.9	24.3	25.6	30.9	31.0	31.9	32.0	32.0	37.7	33.3	37.7	33.1	37.7	33.1	37.7
16.0	19.7	28.5	30.2	37.8	38.6	38.8	39.1	39.8	40.0	40.5	40.5	40.5	40.5	40.5	40.5
17.0	19.2	29.3	31.1	38.5	39.5	39.6	39.7	40.6	41.1	41.2	41.7	41.7	41.7	41.7	41.7
18.0	19.3	29.7	31.1	38.5	39.5	39.6	39.9	41.0	41.1	41.2	41.7	41.7	41.7	41.7	41.7
19.0	20.2	29.6	31.7	38.8	39.8	39.9	40.2	40.9	41.7	41.5	41.6	41.6	41.6	41.6	41.6
20.0	20.3	31.2	31.4	39.3	40.3	40.5	40.8	41.5	41.7	42.1	42.2	42.2	42.2	42.2	42.2
21.0	21.0	30.9	32.0	40.1	41.1	41.2	41.5	42.2	42.8	43.0	43.0	43.0	43.0	43.0	43.0
22.0	21.0	31.3	33.2	40.8	41.9	42.1	42.3	43.1	43.6	44.1	44.1	44.1	44.1	44.1	44.1
23.0	22.7	31.3	35.1	43.6	44.9	45.2	45.8	46.9	47.6	48.1	48.1	48.1	48.1	48.1	48.1
24.0	23.7	34.2	37.5	44.8	46.1	46.4	46.9	48.1	48.9	49.2	49.2	49.2	49.2	49.2	49.2
25.0	27.3	34.2	37.5	44.8	46.1	46.4	46.9	48.1	48.9	49.2	49.2	49.2	49.2	49.2	49.2
26.0	27.7	35.1	37.7	45.9	47.4	47.5	48.2	49.4	50.1	50.5	50.5	50.5	50.5	50.5	50.5
27.0	24.5	38.3	39.6	47.5	48.9	49.2	49.8	51.2	51.9	52.4	52.4	52.4	52.4	52.4	52.4
28.0	27.2	39.3	42.2	51.4	53.1	53.4	53.9	55.4	56.1	56.2	56.2	56.2	56.2	56.2	56.2
29.0	31.0	42.9	45.4	54.6	56.5	56.8	57.4	58.9	59.7	60.2	60.2	60.2	60.2	60.2	60.2
30.0	33.5	50.2	53.0	64.8	66.5	66.8	67.4	69.1	69.9	70.4	70.4	70.4	70.4	70.4	70.4
31.0	35.0	54.5	57.0	69.8	71.8	72.2	72.8	74.5	75.7	75.8	75.8	75.8	75.8	75.8	75.8
32.0	36.5	58.2	62.7	75.5	77.8	78.4	79.0	80.6	81.5	82.3	82.3	82.3	82.3	82.3	82.3
33.0	38.9	59.7	63.2	76.4	78.7	79.3	79.9	81.7	82.4	83.1	83.1	83.1	83.1	83.1	83.1
34.0	41.0	61.1	65.6	81.4	83.7	83.7	84.4	86.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4
35.0	42.0	61.5	67.5	82.5	85.4	85.1	87.3	89.7	90.7	91.4	91.4	91.4	91.4	91.3	91.3
36.0	43.5	61.8	68.7	84.8	88.1	89.1	90.4	92.8	93.0	94.0	94.7	94.7	94.7	94.7	94.7
37.0	43.8	61.8	68.7	85.7	89.0	90.3	91.4	93.6	94.0	95.6	95.7	95.7	95.7	96.1	96.3
38.0	44.5	61.8	68.7	86.3	89.6	90.6	92.0	94.6	95.6	96.3	96.4	96.4	96.4	96.9	97.0
39.0	44.5	61.8	68.7	86.6	90.7	91.1	92.6	95.3	96.7	97.1	97.7	97.3	97.4	97.9	98.0
40.0	44.5	61.8	68.7	86.6	90.7	91.1	92.7	95.4	96.4	97.4	97.6	98.1	98.3	98.7	98.9
41.0	44.5	61.8	68.7	86.6	90.7	91.1	92.7	95.4	96.4	97.6	97.7	98.3	98.4	99.0	99.4
42.0	44.5	61.8	68.7	86.6	90.7	91.1	92.7	95.4	96.4	97.6	97.7	98.3	98.4	99.0	99.4
43.0	44.5	61.8	68.7	86.6	90.7	91.1	92.7	95.4	96.4	97.6	97.7	98.3	98.4	99.0	99.4
44.0	44.5	61.8	68.7	86.6	90.7	91.1	92.7	95.4	96.4	97.6	97.7	98.3	98.4	99.0	99.4

TOTAL NUMBER OF OBSERVATIONS 999

FEDERAL BUREAU OF SURVEY
 NATIONAL METEOROLOGICAL SERVICE
 AIR WEATHER SERVICE/FAO

CEILING VERSUS VISIBILITY

STATION NO. 10004 447 1 STATION NAME

73-81 YEAR

SE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10-2-1944

VISIBILITY	VISIBILITY - STATUTE MILES																			
	10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
10	31.2	27.5	24.1	22.9	22.0	21.2	20.2	19.2	18.2	17.2	16.2	15.2	14.2	13.2	12.2	11.2	10.2	9.2	8.2	7.2
15	24.3	33.3	31.4	28.3	34.5	32.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
20	20.7	34.3	35.1	37.1	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
25	22.4	34.3	35.2	37.1	37.7	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
30	15.3	34.5	35.5	37.4	37.6	37.9	37.7	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
35	15.3	34.5	35.7	37.6	37.8	38.1	38.1	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
40	10.7	30.5	35.1	39.4	39.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
45	10.9	35.7	36.5	38.7	39.7	39.5	39.5	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
50	29.5	38.9	47.1	43.3	43.4	43.3	43.9	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
55	27.7	40.1	41.4	44.5	45.0	45.3	45.5	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
60	19.2	40.3	41.5	44.7	45.7	45.5	45.7	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
65	22.3	42.1	44.4	47.7	48.2	48.5	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
70	34.1	45.7	46.9	51.4	51.9	51.2	51.3	51.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
75	27.2	51.5	52.5	56.4	56.9	57.2	57.3	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
80	43.2	59.2	61.3	64.9	65.4	65.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
85	22.4	71.2	74.1	79.3	79.8	80.4	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
90	14.5	75.0	77.3	82.6	83.3	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
95	20.4	79.0	82.9	87.2	87.8	88.3	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
100	55.4	78.8	81.7	87.8	88.6	89.1	89.6	89.6	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
105	57.1	80.3	83.7	91.2	91.6	92.3	92.3	92.3	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
110	57.1	81.4	87.4	92.4	93.7	94.2	94.8	94.8	95.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
115	57.3	81.4	84.8	94.5	95.7	96.4	97.2	97.2	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
120	57.3	81.4	84.8	94.8	95.8	96.3	97.5	97.5	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
125	57.3	81.4	84.8	94.9	96.4	97.1	97.9	97.9	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
130	57.3	81.4	84.8	95.1	96.7	97.3	98.3	98.3	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
135	57.3	81.4	84.8	95.1	96.8	97.5	98.4	98.4	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
140	57.3	81.4	84.8	95.1	96.8	97.5	98.4	98.4	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
145	57.3	81.4	84.8	95.1	96.8	97.5	98.4	98.4	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
150	57.3	81.4	84.8	95.1	96.8	97.5	98.4	98.4	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
155	57.3	81.4	84.8	95.1	96.8	97.5	98.4	98.4	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
160	57.3	81.4	84.8	95.1	96.8	97.5	98.4	98.4	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 633

FEDERAL AVIATION ADMINISTRATION
 METEOROLOGICAL SERVICE DIVISION
 WASHINGTON, D.C. 20515

CEILING VERSUS VISIBILITY

STATION NUMBER: 15180 STATION NAME: YEAR: 1957 MONTH: 07 DAY: 23

PERCENTAGE FREQUENCY OF OCCURRENCE
 FROM HOURLY OBSERVATIONS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
100	0.6	28.7	29.9	37.6	37.6	31.6	37.7	38.6	30.9	30.9	30.9	31.9	31.9	31.9	31.9	31.9
200	1.5	27.0	31.7	27.6	30.6	22.6	30.6	22.6	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
300	27.4	37.7	39.1	4.4	4.4	4.4	4.4	4.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
400	27.7	28.1	37.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
500	27.7	28.1	39.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
600	31.3	38.9	47.4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
700	39.3	43.4	41.8	47.2	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
800	31.3	41.3	47.5	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
900	33.4	44.7	45.2	47.9	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
1000	34.3	45.7	47.2	49.2	49.6	49.6	49.6	49.6	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
1100	34.5	45.8	47.4	49.4	49.8	49.8	49.8	49.8	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
1200	37.7	47.7	49.1	51.1	51.7	51.7	51.7	51.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
1300	37.7	51.9	52.7	54.5	54.9	54.9	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
1400	41.8	56.4	57.3	57.3	57.4	57.4	57.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
1500	47.7	58.2	67.3	71.3	71.1	71.1	71.3	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
1600	47.4	78.2	8.4	83.4	83.8	83.8	84.2	84.2	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
1700	49.1	77.8	81.9	85.8	85.8	85.8	86.7	86.8	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
1800	51.1	82.6	84.7	87.4	87.6	87.6	87.8	88.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1900	51.1	84.7	85.7	91.3	91.9	91.7	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
2000	51.1	84.7	87.3	92.8	94.7	94.7	94.7	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2100	51.3	85.1	89.1	94.9	95.2	95.2	96.5	96.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2200	51.3	85.3	89.9	96.2	97.5	97.7	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2300	51.7	85.3	89.9	96.2	97.7	98.1	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2400	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2500	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2600	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2700	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2800	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2900	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
3000	51.3	85.3	89.9	96.4	98.1	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS: 37

1. FORM CLIMATOLOGY DIVISION
 2. AFM/TAC
 3. AIRCRAFT INSTRUMENTS

CEILING VERSUS VISIBILITY

1. 446
 STATION NAME

73-31

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	20	20	24	25	25	25	25	25	25	25	25	25	25	25	25
100	38.9	37.7	34.7	34.4	34.4	37.4	37.7	37.7	38.1	39.2	38.2	38.7	38.7	38.7	38.7	38.7
100	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
100	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
100	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
100	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
100	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
100	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
100	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
100	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
100	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
100	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
100	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
100	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
100	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
100	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
100	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
100	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
100	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
100	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
100	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
100	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
100	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
100	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
100	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
100	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
100	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
100	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
100	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
100	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
100	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
100	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
100	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
100	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
100	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
100	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
100	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
100	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
100	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
100	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
100	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
100	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
100	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
100	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
100	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
100	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
100	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 534

U.S. AIR FORCE
 14-00000
 14-00000

CEILING VERSUS VISIBILITY

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

STATION NAME	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
100	30.2	32.4	37.1	34.6	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
101	32.1	32.6	41.2	42.4	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
102	37.3	41.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
103	31.1	32.2	41.1	42.2	41.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
104	31.7	41.2	41.7	44.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
105	32.4	41.1	41.1	45.2	44.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
106	33.2	44.4	45.6	45.3	44.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
107	32.2	42.2	47.1	52.4	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
108	34.7	47.7	47.2	52.9	53.9	53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
109	35.7	49.4	52.1	54.2	53.7	53.7	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
110	35.3	51.7	51.4	55.2	51.7	53.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
111	31.2	32.2	32.2	58.9	57.8	57.8	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
112	37.2	37.2	53.5	58.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
113	41.1	52.2	57.1	62.3	63.4	63.4	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
114	43.3	51.4	57.1	58.2	58.6	59.5	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
115	41.2	67.4	65.1	71.9	77.9	77.2	78.6	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
116	41.4	71.3	72.7	80.3	81.8	81.8	82.6	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
117	52.2	72.7	76.3	84.5	85.0	85.2	85.8	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
118	52.4	79.1	77.7	86.3	87.8	87.3	88.7	88.8	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
119	49.2	72.5	72.1	84.9	83.5	83.5	81.3	81.3	81.3	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
120	54.3	77.3	81.8	91.7	93.4	93.7	94.5	94.7	95.1	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
121	54.3	77.9	81.7	92.1	93.5	93.2	94.8	94.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
122	54.3	78.3	81.8	93.7	95.2	95.3	97.6	97.6	98.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
123	54.3	78.1	81.8	93.7	95.5	97.1	97.9	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
124	54.3	78.1	81.8	93.7	95.6	97.2	98.2	98.2	98.3	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
125	54.3	78.1	81.8	93.7	95.6	97.2	98.5	98.6	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
126	54.3	78.1	81.8	93.7	95.6	97.2	98.5	98.6	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
127	54.3	78.1	81.8	93.7	95.6	97.2	98.5	98.6	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
128	54.3	78.1	81.8	93.7	95.6	97.2	98.5	98.6	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 714

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	3	4	5	6	7	8	10
100	23.7	24.3	21.4	16.4	11.4	7.4	4.4	2.4	1.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
200	21.4	20.3	17.7	12.7	7.7	4.7	2.7	1.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
300	19.7	18.7	16.1	11.1	6.1	3.1	2.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
400	18.1	17.4	14.8	9.8	4.8	3.8	2.8	1.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
500	16.4	15.4	12.8	7.8	2.8	1.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
600	14.7	13.7	11.1	6.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
700	13.1	12.1	9.5	4.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
800	11.4	10.4	7.8	2.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
900	9.7	8.7	6.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1000	8.1	7.1	4.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1200	6.4	5.4	2.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1400	4.7	3.7	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1600	3.1	2.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1800	1.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2000	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TOTAL NUMBER OF OBSERVATIONS 44

CEILING VERSUS VISIBILITY

1. NAME OF STATION
2. LOCATION
3. ELEVATION

4. STATE

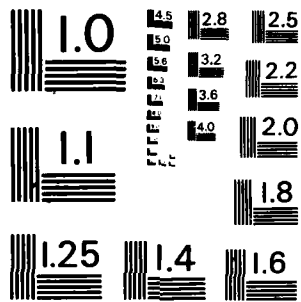
7. DATE

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

VISIBILITY IN STATUTE MILES

CEILING	10	9	8	7	6	5	4	3	2	1	0
34.7	31.1	34.4	34.7	34.7	34.4	34.7	34.7	34.7	34.7	34.7	34.7
32.1	42.9	47.7	47.6	47.6	47.6	47.7	47.7	47.7	47.7	47.7	47.7
29.5	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
27.0	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
24.4	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
21.9	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
19.3	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
16.8	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
14.2	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
11.7	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
9.1	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
6.6	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
4.0	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
1.5	42.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1

TOTAL NUMBER OF OBSERVATIONS



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

CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 445 FULDA AAF JL 73-81 JUL 1973

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥.05	≥.01
≥20000	13.9	17.6	22.1	27.2	29.2	29.5	30.6	31.9	32.4	32.9	32.9	33.2	33.3	33.5	33.9	34.1
≥18000	15.9	20.4	25.5	31.1	33.0	33.3	34.5	35.9	36.4	37.2	37.2	37.5	37.7	37.8	38.3	38.5
≥16000	15.9	20.4	25.5	31.1	33.0	33.3	34.5	35.9	36.4	37.2	37.2	37.5	37.7	37.8	38.3	38.5
≥14000	16.2	20.7	25.9	31.7	33.8	34.1	35.3	36.7	37.2	38.0	38.0	38.3	38.5	38.6	39.1	39.1
≥12000	16.5	21.0	26.1	32.1	34.1	34.5	35.6	37.0	37.5	38.3	38.3	38.6	38.8	39.9	39.4	39.2
≥10000	17.9	23.1	28.7	34.8	36.9	37.2	38.3	39.7	40.2	41.0	41.0	41.3	41.5	41.7	42.1	42.5
≥8000	18.3	24.4	30.1	37.2	39.3	39.6	40.7	42.1	42.6	43.6	43.6	43.9	44.1	44.2	44.7	45.4
≥6000	22.1	28.7	35.4	43.3	45.7	46.2	47.4	49.0	49.5	50.6	50.6	51.1	51.3	51.5	52.4	52.9
≥4000	22.3	30.3	37.2	45.4	47.8	48.2	49.5	51.4	51.9	53.0	53.0	53.5	53.7	54.2	54.8	55.7
≥2000	23.1	30.8	37.7	45.8	48.2	48.7	50.0	51.9	52.4	53.5	53.7	54.0	54.2	54.6	55.3	55.9
≥1000	25.3	33.7	40.7	51.0	52.4	52.9	54.2	56.1	56.6	57.7	57.9	58.2	58.3	58.8	59.5	59.9
≥500	26.9	35.3	42.8	52.6	55.0	55.3	57.1	59.5	59.9	61.1	61.2	61.5	61.7	62.2	62.9	63.1
≥250	28.4	37.3	45.2	55.8	58.5	59.3	60.6	63.0	63.5	64.6	64.7	65.1	65.2	65.7	66.3	66.8
≥150	30.4	40.7	48.7	59.6	62.5	63.3	64.9	67.5	67.9	69.2	69.4	69.7	69.9	70.4	71.0	71.5
≥100	33.7	44.2	51.1	64.4	67.3	68.1	72.0	72.6	73.1	74.7	74.8	75.2	75.3	76.1	76.8	77.2
≥75	34.9	47.2	55.1	67.2	69.9	70.7	72.8	75.3	75.8	77.4	77.6	77.9	78.0	78.8	79.5	80.1
≥50	36.9	50.2	58.5	71.3	73.9	74.7	76.8	79.5	80.1	82.4	82.4	82.5	82.9	83.7	83.8	84.5
≥25	36.9	50.2	58.5	71.3	74.5	75.3	77.7	80.4	81.1	83.3	83.3	83.5	83.8	84.0	84.8	85.4
≥15	39.3	53.4	61.9	77.1	81.1	81.9	84.5	87.7	88.3	90.5	90.7	91.0	91.2	92.0	92.0	92.6
≥10	39.3	53.8	62.5	77.9	81.9	82.7	85.4	88.9	89.7	91.8	92.0	92.3	92.5	93.3	93.9	94.4
≥7.5	39.3	53.8	62.5	78.2	82.4	83.2	85.9	89.7	90.4	92.8	92.8	93.3	93.4	94.2	94.9	95.4
≥5	39.3	53.8	62.5	78.5	82.9	83.7	86.5	90.5	91.2	93.6	93.8	94.1	94.2	95.0	95.7	96.0
≥2.5	39.3	53.8	62.5	78.5	83.0	83.8	86.9	90.9	91.5	93.9	94.1	94.4	94.6	95.4	96.2	97.0
≥1.5	39.3	53.8	62.5	78.5	83.0	83.8	86.9	90.9	91.5	93.9	94.1	94.4	94.7	95.8	96.5	97.3
≥1	39.3	53.8	62.5	78.5	83.0	83.8	86.9	90.9	91.5	94.1	94.2	94.6	94.9	96.0	97.0	97.8
≥.75	39.3	53.8	62.5	78.5	83.0	83.8	86.9	90.9	91.5	94.1	94.2	94.6	94.9	96.0	97.1	98.6
≥.5	39.3	53.8	62.5	78.5	83.0	83.8	86.9	90.9	91.5	94.1	94.2	94.6	94.9	96.0	97.3	99.7
≥.25	39.3	53.8	62.5	78.5	83.0	83.8	86.9	90.9	91.5	94.1	94.2	94.6	94.9	96.0	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 624

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 0445 FULDA AAF DL

73-31

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

620-1100

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	21.0	27.4	29.0	31.7	31.9	31.9	32.1	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4
≥2000	26.1	33.1	34.7	38.0	38.5	38.5	38.7	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥1800	26.1	33.1	34.7	38.0	38.5	38.5	38.7	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥1600	26.3	33.3	34.9	38.2	38.6	38.6	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥1400	26.4	33.4	35.0	38.3	38.7	38.7	39.0	39.2	39.0	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥1200	26.4	33.6	35.2	38.6	39.0	39.0	39.3	39.5	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥1000	28.1	36.6	38.5	42.8	43.3	43.3	43.6	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥900	29.0	37.6	39.5	43.8	44.3	44.3	44.6	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥800	31.9	41.8	43.9	49.1	50.1	50.1	50.4	50.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥700	32.5	43.0	45.2	50.4	51.4	51.4	51.6	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥600	32.5	43.0	45.2	50.4	51.4	51.4	51.6	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥500	33.7	44.3	46.6	52.7	53.7	53.7	53.9	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥4500	36.2	47.2	49.5	55.5	56.7	56.7	57.1	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥400	41.3	52.5	54.8	61.5	62.7	62.7	63.3	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥3500	45.9	59.1	61.8	69.6	71.7	71.7	71.6	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥3000	52.2	67.9	71.7	79.5	81.1	81.1	81.6	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥2500	53.4	69.9	73.3	82.6	84.2	84.2	85.1	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥2000	56.5	74.2	77.5	87.7	89.5	89.5	90.5	91.0	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥1800	57.1	74.9	78.3	88.5	90.4	90.4	91.4	91.8	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥1600	57.8	76.6	80.0	91.2	93.1	93.1	94.1	94.5	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥1400	58.3	77.0	80.6	92.7	94.8	94.8	95.0	96.0	96.6	96.7	97.0	97.0	97.0	97.0	97.0	97.0
≥1200	58.3	77.0	81.1	93.5	96.1	96.3	97.7	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥1000	58.7	77.0	81.1	93.7	96.3	96.4	97.8	98.6	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥900	58.7	77.0	81.1	93.7	96.3	96.4	97.8	98.6	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥800	58.7	77.0	81.1	93.7	96.3	96.4	97.8	98.6	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥700	58.7	77.0	81.1	93.7	96.3	96.4	97.8	98.6	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥600	58.7	77.0	81.1	93.7	96.3	96.4	97.8	98.6	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥500	58.7	77.0	81.1	93.7	96.3	96.4	98.0	98.7	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥400	58.7	77.0	81.1	93.7	96.3	96.4	98.0	98.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥300	58.7	77.0	81.1	93.7	96.3	96.4	98.0	98.7	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥200	58.7	77.0	81.1	93.7	96.3	96.4	98.0	98.7	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥100	58.7	77.0	81.1	93.7	96.3	96.4	98.0	98.7	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 637

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 5445 FULDA AAF DL

73-81

1973

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES													
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	
NO CEILING	23.1	28.4	28.5	28.8	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
≥20000	27.7	34.2	34.4	34.9	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥18000	27.7	34.4	34.5	35.0	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥16000	27.7	34.4	34.5	35.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥14000	28.2	34.7	34.9	35.3	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥12000	28.4	34.9	35.1	35.5	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥10000	30.5	37.4	37.7	38.4	38.7	38.7	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥9000	32.3	39.6	40.1	41.2	41.5	41.5	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥8000	35.2	44.7	45.3	46.8	47.1	47.1	47.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥7000	35.6	46.3	46.9	48.3	48.7	48.7	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥6000	36.9	46.6	47.2	48.7	49.0	49.0	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥5000	39.8	47.8	51.4	52.3	52.6	52.6	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥4500	43.5	53.9	54.8	57.2	57.5	57.5	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥4000	49.1	61.8	62.8	65.5	65.9	65.9	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥3500	58.9	72.6	73.5	76.5	77.0	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥3000	67.2	83.4	84.9	88.4	89.2	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥2500	67.5	84.6	86.1	90.3	91.1	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥2000	68.9	86.7	88.3	93.0	94.0	94.0	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥1800	69.9	86.8	88.4	93.2	94.1	94.1	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥1600	69.9	88.3	89.9	95.6	96.7	96.7	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥1400	69.9	88.3	89.9	95.9	97.0	97.0	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥1200	70.1	88.4	91.3	96.5	97.6	97.6	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4
≥1000	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥900	70.1	88.4	91.3	96.7	97.8	97.8	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥800	70.1	88.4	91.3	96.7	97.8	97.8	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥700	70.1	88.4	91.3	96.8	97.9	97.9	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥600	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥500	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥400	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥300	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥200	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥100	70.1	88.4	91.3	96.8	98.3	98.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 671

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 5445 FULDA AAF DL

73-51

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 0-17-0

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0	
20000	21.2	26.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
18000	28.6	35.7	36.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
16000	29.7	36.1	36.6	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
14000	30.1	37.2	37.7	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
12000	31.2	38.3	38.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
10000	34.0	41.1	41.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
8000	36.4	43.5	44.1	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
6000	42.4	50.7	51.3	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
5000	44.4	53.9	54.5	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
4500	44.8	54.5	55.0	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
4000	47.4	56.4	57.3	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
3500	51.9	63.4	64.7	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
3000	58.6	71.9	73.7	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
2500	64.7	80.7	82.7	84.4	84.9	84.9	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1
2000	68.2	86.6	88.3	91.6	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4
1500	69.7	87.7	89.6	93.3	93.9	93.9	93.9	93.9	93.9	94.1	94.1	94.1	94.1	94.1	94.1
1000	69.7	88.7	90.7	95.7	96.3	96.3	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5
800	69.7	88.8	91.5	97.8	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5
600	69.7	88.8	91.6	97.8	98.5	98.5	98.5	98.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9
400	69.7	88.8	92.7	98.3	99.1	99.1	99.1	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6
200	69.7	88.8	92.7	98.3	99.3	99.3	99.3	99.3	99.6	99.8	100.0	100.0	100.0	100.0	100.0
100	69.7	88.8	92.7	98.3	99.3	99.3	99.3	99.3	99.6	99.8	100.0	100.0	100.0	100.0	100.0
50	69.7	88.8	92.7	98.3	99.3	99.3	99.3	99.3	99.6	99.8	100.0	100.0	100.0	100.0	100.0
0	69.7	88.8	92.7	98.3	99.3	99.3	99.3	99.3	99.6	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 538

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 445 FULDA AAF DL

73-81

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

622-2822

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
≥10000	11.7	15.3	18.0	21.4	23.0	23.0	24.1	25.2	25.8	26.6	27.3	27.3	27.4	27.4	27.4	28.1
≥8000	13.6	19.9	23.1	27.6	29.2	29.2	30.5	31.9	32.5	33.3	34.0	34.1	34.4	34.4	34.8	36.2
≥6000	13.6	19.9	23.1	27.6	29.2	29.2	30.5	31.9	32.5	33.3	34.0	34.1	34.4	34.4	34.8	36.2
≥4000	13.6	20.3	23.4	27.9	29.5	29.5	30.8	32.2	32.9	33.7	34.3	34.4	34.8	34.8	35.1	36.7
≥2000	14.7	21.1	24.4	29.3	31.1	31.1	32.4	34.1	34.8	35.6	36.2	36.4	36.7	36.7	37.0	38.5
≥1000	15.3	22.6	26.3	31.1	33.2	33.2	34.4	36.2	36.8	37.6	38.3	38.4	38.8	38.8	39.1	41.0
≥800	15.9	24.1	27.9	33.0	35.1	35.1	36.4	38.1	38.9	39.7	40.4	40.5	40.8	40.8	41.1	43.1
≥700	17.7	27.0	30.9	36.5	38.6	38.6	40.0	41.9	43.1	43.9	44.5	44.7	45.0	45.0	45.3	47.2
≥500	19.7	28.7	32.7	38.8	41.1	41.1	42.7	45.1	45.7	47.0	47.7	47.7	48.2	48.2	48.5	50.4
≥4500	19.3	29.7	33.7	39.9	42.3	42.4	43.9	46.3	47.4	48.2	48.8	49.0	49.3	49.3	49.6	51.5
≥4000	21.2	32.9	37.5	43.9	46.4	46.6	48.0	50.4	51.5	52.6	53.4	53.6	53.9	53.9	54.2	56.1
≥3500	22.5	34.9	39.6	46.4	49.0	49.1	50.6	53.0	54.1	55.2	56.1	56.3	56.6	56.6	56.9	58.9
≥3000	25.5	39.4	44.0	51.2	54.2	54.4	56.1	58.7	59.8	60.9	61.9	62.0	62.4	62.4	62.8	64.8
≥2500	27.1	41.3	46.6	54.4	57.4	57.6	59.6	62.2	63.3	64.4	65.4	65.7	66.0	66.0	66.5	68.4
≥2000	28.9	45.1	51.0	60.1	64.0	64.1	66.2	68.7	69.9	71.0	71.9	72.2	72.6	72.6	73.0	75.0
≥1500	30.1	47.0	53.0	62.4	66.2	66.5	68.6	71.6	72.7	73.8	74.9	75.1	75.4	75.4	75.9	77.8
≥1000	32.9	50.2	57.3	67.3	71.6	71.9	74.0	77.0	78.1	79.3	80.2	80.5	80.9	81.2	81.5	83.4
≥800	30.9	50.6	57.6	67.8	72.1	72.4	74.5	77.5	78.6	79.7	80.7	81.0	81.3	81.5	82.0	83.9
≥700	33.5	53.6	60.9	71.8	76.6	76.9	79.4	82.8	84.1	85.2	86.1	86.4	86.8	86.9	87.4	89.3
≥600	33.5	54.2	61.9	73.2	78.1	78.5	81.0	84.7	86.0	87.1	88.0	88.4	88.7	88.8	89.5	91.4
≥500	34.7	54.9	63.3	75.1	80.4	80.7	83.4	87.2	88.5	89.6	90.6	90.9	91.2	91.4	92.0	93.9
≥450	34.1	55.2	64.1	75.9	81.3	81.8	84.5	88.4	89.6	90.7	91.7	92.0	92.3	92.5	93.1	95.0
≥400	34.1	55.2	64.1	76.1	81.5	82.1	84.8	88.7	90.0	91.1	92.0	92.3	92.7	92.8	93.5	95.4
≥350	34.1	55.2	64.1	76.2	81.7	82.3	85.7	89.0	90.7	91.4	92.3	92.7	93.0	93.1	93.8	95.7
≥300	34.1	55.2	64.1	76.2	81.8	82.5	85.2	89.6	90.9	92.2	93.1	93.5	93.9	94.1	94.7	96.7
≥250	34.1	55.2	64.1	76.2	82.0	82.6	85.3	90.0	91.2	92.5	93.5	93.8	94.3	94.4	95.1	97.0
≥200	34.1	55.2	64.1	76.2	82.0	82.6	85.6	90.3	91.5	93.1	94.1	94.4	94.9	95.4	96.0	98.4
≥150	34.1	55.2	64.1	76.2	82.3	82.9	86.0	90.6	91.9	93.5	94.4	94.7	95.2	95.9	96.5	99.4
≥100	34.1	55.2	64.1	76.2	82.3	82.9	86.0	90.6	91.9	93.5	94.4	94.7	95.2	95.9	96.7	99.7
≥50	34.1	55.2	64.1	76.2	82.3	82.9	86.0	90.6	91.9	93.5	94.4	94.7	95.2	95.9	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS 627

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

10445 FULDA AAF OL 73-81

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7-2-1960

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.25	≥.16	≥.1	≥.05	≥.025	≥.01
NO CEILING	16.6	22.5	23.6	28.7	29.0	29.0	29.0	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.7
≥20000	21.6	27.9	29.3	35.1	35.3	35.3	35.3	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
≥18000	20.6	28.2	29.4	35.1	35.4	35.4	35.4	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥16000	20.6	28.2	29.4	35.1	35.4	35.4	35.4	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥14000	21.2	28.9	30.3	36.0	36.3	36.3	36.3	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥12000	22.3	30.4	31.8	37.8	38.2	38.2	38.2	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
≥10000	24.3	33.1	34.5	41.0	41.4	41.4	41.4	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥9000	25.9	34.9	36.4	43.1	43.5	43.5	43.5	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥8000	28.5	37.9	39.5	47.0	47.4	47.4	47.4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥7000	28.9	39.1	40.6	48.7	49.1	49.1	49.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥6000	29.7	39.9	41.4	49.7	50.1	50.1	50.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥5000	33.7	43.9	46.7	54.8	55.2	55.2	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥4500	35.4	47.3	49.4	58.3	58.9	58.9	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥4000	38.2	51.9	53.1	62.6	63.2	63.2	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥3500	43.5	57.2	59.6	69.3	69.9	69.9	69.9	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4
≥3000	50.2	66.5	69.3	80.5	81.2	81.2	81.2	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6
≥2500	52.4	69.5	72.2	83.7	84.4	84.4	84.4	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9
≥2000	53.3	72.0	75.3	86.9	87.7	87.7	87.7	88.1	88.1	88.1	88.1	88.3	88.3	88.3	88.3	88.3
≥1800	54.3	72.9	76.2	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.3
≥1500	55.4	74.8	78.4	90.4	91.8	91.8	91.8	92.5	92.5	92.5	92.5	92.7	92.7	92.7	92.7	92.7
≥1200	55.5	75.5	79.5	91.6	93.0	93.2	93.3	93.7	93.7	94.0	94.0	94.1	94.1	94.1	94.1	94.1
≥1000	55.9	76.2	80.8	93.7	95.4	95.7	95.8	96.2	96.2	96.5	96.5	96.7	96.7	96.7	96.7	96.7
≥900	56.1	76.3	80.9	94.4	96.1	96.4	96.5	96.9	96.9	97.2	97.2	97.4	97.4	97.4	97.4	97.4
≥800	56.1	76.4	81.2	94.8	96.5	97.1	97.2	97.6	97.6	97.9	97.9	98.0	98.0	98.0	98.0	98.0
≥700	56.1	76.6	81.2	95.5	97.2	97.8	97.8	98.3	98.3	98.7	98.7	98.9	98.9	98.9	98.9	98.9
≥600	56.1	76.6	81.2	95.7	97.4	97.9	98.0	98.6	98.6	99.3	99.3	99.4	99.4	99.4	99.4	99.4
≥500	56.1	76.6	81.2	95.7	97.4	97.9	98.0	98.7	98.9	99.4	99.4	99.6	99.6	99.6	99.6	99.6
≥400	56.1	76.6	81.2	95.7	97.4	97.9	98.2	98.9	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥300	56.1	76.6	81.2	95.7	97.4	97.9	98.2	98.9	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥200	56.1	76.6	81.2	95.7	97.4	97.9	98.2	98.9	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥100	56.1	76.6	81.2	95.7	97.4	97.9	98.2	98.9	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥0	56.1	76.6	81.2	95.7	97.4	97.9	98.2	98.9	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 717

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 5445
STATION

FULDA AAF CL

STATION NAME

73-31

YEARS

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12-1-40

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥4	≥4	≥2	≥1/2	≥1/2	≥0
NO. CEILING	27.3	25.6	25.6	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
20000	25.3	31.8	32.7	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
18000	25.4	32.2	33.2	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
16000	25.4	32.2	33.2	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
14000	25.6	32.4	33.3	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
12000	26.5	33.3	34.3	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
10000	29.5	37.2	38.1	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
8000	31.6	39.8	40.8	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
6000	34.7	44.0	45.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
4000	36.0	45.4	46.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
2000	36.3	45.7	47.1	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
1000	41.1	51.5	52.9	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
500	45.4	57.2	58.6	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
300	50.7	64.2	65.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
200	57.7	73.2	74.7	76.7	76.9	76.9	76.9	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
150	65.4	82.9	84.8	87.1	87.4	87.4	89.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
100	67.0	85.9	87.0	90.9	91.2	91.2	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
75	68.1	87.6	89.6	93.0	93.3	93.3	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
50	69.3	89.6	91.8	95.8	96.3	96.3	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
25	71.4	91.2	93.8	98.6	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
15	71.4	91.2	93.8	98.6	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
10	71.4	91.2	93.8	98.6	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
7	71.4	91.3	94.0	98.8	99.2	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	71.4	91.3	94.0	98.8	99.2	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	71.4	91.3	94.0	98.8	99.2	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	71.4	91.3	94.0	98.8	99.2	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 645

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/LMAC

CEILING VERSUS VISIBILITY

1 5445
 STATION

FILDA AAF DL

STATION NAME

73-81

YEAR

1954

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 2-1700
 HOUR

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.8	≥0.6	≥0.5	≥0.4	≥0.3	≥0.2
NO CEILING	23.7	29.7	37.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 20000	31.4	39.1	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 18000	31.4	39.1	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 16000	31.6	39.3	47.7	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 14000	31.8	39.5	47.2	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 12000	32.3	40.0	47.8	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 10000	34.4	42.9	47.8	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 9000	36.3	45.7	48.5	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 8000	40.6	51.7	52.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 7000	42.7	54.3	55.3	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 6000	43.2	55.3	56.2	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 5000	47.1	62.3	61.3	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 4500	51.9	65.8	67.3	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 4000	59.1	73.5	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500	64.7	82.1	83.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3000	69.6	88.2	89.8	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 2500	69.7	89.7	91.7	93.0	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 2000	70.5	91.5	94.0	96.6	96.6	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800	70.5	91.5	94.0	96.6	96.6	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1500	71.2	92.7	95.1	97.9	97.9	98.1	98.1	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1200	72.1	93.4	95.9	98.9	98.9	99.1	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	72.1	93.4	95.9	99.2	99.2	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 532

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 7445 FULDA AAF DL STATION NAME

72-51 YEAR

463

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

400-2400

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	12.1	17.9	21.1	26.3	26.8	27.3	27.9	29.3	35.7	30.7	30.7	31.1	31.1	31.7	20.8	74.7
18000	14.2	21.4	25.3	31.9	32.6	33.1	33.8	35.5	36.7	37.4	37.4	37.7	37.7	38.4	32.1	81.0
16000	14.2	21.7	25.4	32.3	33.1	33.6	34.2	36.0	36.8	37.9	37.9	38.2	38.2	38.8	38.4	42.1
14000	15.1	22.0	25.7	32.6	33.9	34.4	35.7	36.8	37.6	38.7	38.7	39.0	39.0	39.6	40.4	42.8
12000	15.4	22.5	25.6	33.6	34.9	35.3	36.7	37.7	38.7	39.8	39.8	40.1	40.1	40.7	41.7	44.2
10000	15.5	23.1	27.3	35.0	36.6	37.1	37.9	39.8	40.7	42.0	42.0	42.3	42.3	43.3	44.4	46.8
8000	16.7	23.6	28.1	35.8	37.4	37.2	38.8	40.7	41.7	42.9	42.9	43.3	43.3	44.2	45.3	47.7
6000	17.9	26.6	31.4	40.3	42.3	43.1	44.4	46.6	48.2	50.4	50.4	50.7	50.7	52.0	53.1	55.5
4000	18.2	27.9	32.5	42.2	44.4	45.2	46.6	48.8	50.4	52.6	52.6	52.9	52.9	54.2	55.3	57.7
2000	19.2	28.4	33.1	42.9	45.0	45.3	47.2	49.4	51.0	53.2	53.2	53.6	53.6	54.8	55.9	58.3
1000	19.2	28.4	33.1	42.9	45.5	46.3	47.7	50.2	51.8	54.0	54.0	54.4	54.4	55.6	56.7	59.1
500	19.2	28.4	33.1	43.9	46.4	47.2	49.0	51.7	53.2	55.5	55.5	55.8	55.8	57.1	58.2	60.6
250	21.2	30.7	36.1	47.2	49.8	50.6	52.3	55.2	56.9	59.1	59.1	59.4	59.4	60.7	61.8	64.2
100	22.3	32.2	37.9	50.1	52.6	53.4	55.3	58.3	60.1	63.1	63.1	63.5	63.5	65.0	66.4	68.8
50	23.2	34.2	40.2	54.2	57.1	58.2	60.2	63.4	65.1	68.6	68.6	69.1	69.4	70.8	72.3	74.6
25	25.4	36.3	42.3	55.6	58.6	59.7	62.1	65.3	67.0	70.8	70.8	71.2	71.6	71.6	73.1	74.5
10	25.8	36.9	43.1	57.2	60.4	61.5	64.5	68.1	69.9	73.7	73.7	74.3	74.6	74.6	76.2	77.7
5	25.8	37.1	43.4	57.5	60.7	61.8	64.8	68.6	70.4	74.2	74.2	74.8	75.1	75.1	76.7	78.1
2	26.1	37.9	44.4	59.4	62.9	64.0	67.5	72.1	74.2	78.1	78.1	78.8	79.1	79.1	80.7	82.1
1	26.1	37.9	44.4	60.1	63.7	65.0	68.8	73.9	75.9	80.0	80.0	80.7	81.0	81.0	82.6	84.0
0.5	26.1	38.2	45.2	61.3	65.3	66.6	70.4	75.6	77.8	82.3	82.3	82.9	83.2	83.2	84.8	86.2
0.25	26.1	38.2	45.2	61.6	65.6	66.9	70.8	76.1	78.3	82.7	82.7	83.4	83.7	83.7	85.3	86.7
0.1	26.1	38.2	45.5	62.4	66.2	67.5	71.5	76.9	79.1	83.7	83.7	84.3	84.6	84.6	86.2	87.6
0.05	26.1	38.2	45.5	62.8	66.6	67.8	71.9	77.5	79.7	84.3	84.3	84.9	85.3	85.3	86.9	88.3
0.025	26.1	38.2	45.5	62.8	66.6	67.8	71.9	77.5	79.7	84.3	84.3	84.9	85.3	85.3	86.9	88.3
0.01	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.005	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.0025	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.001	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.0005	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.00025	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.0001	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7
0.00005	26.1	38.2	45.5	62.8	66.6	67.8	72.3	77.8	79.9	84.6	84.6	85.3	85.6	85.6	87.2	88.7

TOTAL NUMBER OF OBSERVATIONS 631

GENERAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 1945 FULEA AAF DL

70-31

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	22.9	29.1	31.1	35.7	36.1	36.1	37.1	37.4	37.7	37.9	37.9	37.9	37.9	37.9	37.9	37.9
18000	27.1	35.3	37.6	42.9	43.6	43.6	44.7	45.0	45.7	45.4	45.4	45.4	45.4	45.4	45.4	45.4
16000	27.4	35.7	38.1	43.3	44.7	44.7	45.1	45.4	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9
14000	27.5	35.9	38.1	43.4	44.1	44.1	45.3	45.6	45.9	46.2	46.0	46.0	46.0	46.0	46.0	46.0
12000	27.7	36.1	38.4	43.7	44.4	44.4	45.6	45.9	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3
10000	28.5	37.7	40.1	45.4	46.1	46.1	47.3	47.6	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2
8000	29.4	39.1	41.6	47.0	48.4	48.4	49.7	50.1	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6
6000	29.7	39.4	41.8	47.6	48.7	48.7	50.0	50.4	50.7	50.9	50.9	50.9	50.9	50.9	50.9	50.9
4000	32.8	43.4	46.0	52.4	53.7	53.9	55.6	56.1	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
2000	33.7	44.9	47.0	55.1	55.4	55.7	58.4	59.0	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6
1000	33.2	45.1	49.1	55.4	56.7	57.0	58.7	59.3	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9
500	35.1	46.6	49.7	57.0	58.6	58.9	60.7	61.3	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9
250	36.1	48.3	51.6	59.3	61.0	61.3	63.1	63.7	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3
100	37.9	50.6	53.9	62.1	64.1	64.4	66.7	67.6	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3
50	47.2	54.6	59.1	66.7	69.4	69.7	72.0	72.9	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6
25	45.7	61.6	64.4	74.3	77.1	77.6	80.1	81.3	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
10	47.1	62.4	66.4	76.6	79.9	80.4	83.0	84.3	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1
5	49.1	65.0	69.3	80.7	84.3	84.9	87.6	89.1	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2	49.6	65.9	71.1	81.7	85.3	85.9	88.6	90.1	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1	50.1	66.9	71.1	83.4	87.3	88.0	90.7	92.4	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7
0.5	50.4	67.3	71.6	85.0	88.9	89.6	92.3	94.0	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3
0.25	50.4	67.3	71.6	86.1	90.1	90.9	93.6	95.3	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6
0.1	50.4	67.3	71.6	86.1	91.1	91.9	93.7	95.4	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
0.05	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.1	97.0	97.6	97.6	97.6	97.6	97.6	97.6	97.6
0.025	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.4	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.01	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.4	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.005	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.4	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.0025	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.4	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.001	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.4	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.0005	50.4	67.3	71.6	86.4	91.6	91.3	94.3	96.4	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9

TOTAL NUMBER OF OBSERVATIONS 700

SIGNAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 8495 FULDA AAF DL STATION NAME

73-81 YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 0-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	29.1	33.9	34.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
20000	35.1	41.7	42.3	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
18000	35.3	42.3	42.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
16000	35.6	42.3	42.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
14000	35.9	42.6	42.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
12000	37.3	44.2	44.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
10000	39.6	47.5	47.9	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
8000	41.7	49.7	49.5	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
6000	45.2	55.1	55.4	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
4000	46.3	56.3	56.7	58.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
2000	46.5	56.6	57.1	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
1000	47.2	55.8	60.3	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
500	50.5	61.7	62.4	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
200	54.1	66.3	67.3	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
100	60.3	73.3	75.1	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
50	69.7	83.6	85.7	90.8	91.4	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
25	70.7	85.6	87.7	93.6	94.2	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
15	71.5	87.1	89.3	95.1	95.7	95.9	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
10	72.1	87.9	90.0	96.3	97.1	97.4	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
7.5	72.4	88.2	90.3	97.5	98.3	98.6	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
5	72.4	88.3	90.5	98.3	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	72.4	88.3	90.5	98.3	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	72.4	88.3	90.5	98.3	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	72.4	88.3	90.5	98.3	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 652

CENTRAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAAC

CEILING VERSUS VISIBILITY

1 1945 SLCRA AAF DL

73-31

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	7.7	10.4	11.1	10.2	11.7	11.3	17.4	18.6	19.1	19.8	20.1	23.1	21.7	11.1	11.8	10.6
800	7.7	11.8	12.5	17.4	18.6	18.9	22.3	21.6	22.7	22.8	23.5	23.7	24.1	24.4	25.3	27.1
600	7.7	11.9	17.4	17.6	18.9	19.3	27.6	21.6	22.4	23.2	23.9	24.1	24.4	25.3	27.1	31.1
400	7.3	12.1	12.7	17.7	19.1	19.5	27.9	22.1	22.5	23.4	24.1	24.2	24.6	25.4	27.6	31.2
200	8.2	12.6	13.2	18.3	19.8	20.1	21.5	22.7	27.7	24.1	24.7	24.9	25.3	26.1	28.7	31.3
100	8.2	12.6	13.3	18.4	21.3	21.6	22.2	23.4	27.8	24.7	25.4	25.9	25.9	26.1	29.7	32.1
50	8.2	13.7	14.3	20.0	21.2	22.5	24.1	25.3	25.8	26.8	27.1	27.8	28.7	29.7	31.4	35.0
25	7.2	13.8	14.5	20.8	23.0	23.4	24.9	26.1	26.6	26.1	28.2	28.9	29.2	31.4	32.3	36.1
15	11.5	17.2	18.4	25.8	29.0	28.3	29.0	31.1	31.7	33.8	34.5	35.1	35.3	37.4	39.0	44.1
10	12.3	17.2	19.3	27.1	29.5	29.9	31.6	33.1	33.8	36.1	37.0	37.5	37.9	39.9	42.5	47.1
7	12.5	18.1	19.8	27.3	29.7	30.3	31.7	33.3	34.7	35.7	37.7	38.2	38.6	41.5	43.7	47.1
5	13.5	17.8	21.2	29.4	37.9	33.3	35.2	37.2	38.1	40.4	41.8	42.1	42.3	44.4	47.1	51.7
3	18.7	22.0	27.4	32.1	35.7	36.0	37.2	39.8	47.1	43.2	44.2	44.7	45.1	47.1	49.8	54.1
2	15.6	24.2	25.2	35.3	39.1	37.4	41.3	42.3	44.4	46.2	48.2	48.5	48.7	51.2	53.2	58.1
1	17.4	25.8	27.5	37.4	41.3	41.6	43.7	45.9	45.9	49.7	50.7	51.2	51.7	54.1	56.8	61.1
0	18.8	29.2	31.6	43.2	47.3	47.6	49.8	52.7	53.2	56.7	57.7	58.2	58.7	61.1	63.8	68.1
0	19.3	31.7	37.4	45.7	50.2	51.5	52.9	56.3	57.9	60.8	61.8	62.1	62.6	65.1	67.7	72.1
0	20.2	32.8	35.7	49.0	53.8	54.1	56.5	60.2	61.5	64.7	65.7	65.2	65.7	69.1	72.1	77.1
0	20.8	33.1	36.1	49.8	54.6	54.9	57.3	61.1	62.7	65.8	66.6	67.1	67.6	71.2	72.0	77.8
0	21.3	33.3	36.7	51.4	56.3	56.7	59.6	63.3	64.8	68.4	69.5	70.1	70.5	73.1	75.0	80.2
0	21.5	34.5	37.7	52.6	57.5	57.8	60.8	64.7	66.7	71.1	71.2	71.7	72.2	74.7	77.8	82.8
0	22.2	34.8	38.7	53.4	58.4	58.9	61.9	65.7	67.5	71.8	72.7	73.2	73.7	76.2	79.7	84.9
0	22.3	34.8	38.7	53.6	59.5	59.0	62.1	66.0	67.7	71.9	73.1	73.5	74.1	76.6	80.0	85.1
0	22.0	34.5	38.2	53.6	58.7	59.2	62.3	66.2	67.9	72.1	73.2	73.7	74.2	77.1	80.2	85.2
0	22.0	34.8	38.2	53.6	58.7	59.2	62.3	66.2	67.9	72.1	73.2	73.7	74.2	77.1	80.2	85.2
0	22.0	34.5	38.2	53.6	58.0	58.6	62.6	66.9	68.5	72.7	73.9	74.4	74.9	77.6	80.9	85.9
0	22.0	34.8	38.2	53.6	58.2	59.7	62.8	67.1	68.8	72.9	74.1	74.6	75.1	78.0	81.4	86.7
0	22.0	34.5	38.2	53.6	58.2	59.7	62.8	67.1	68.8	73.0	74.4	74.9	75.4	78.9	81.9	86.9
0	22.0	34.8	38.2	53.6	58.2	59.7	62.8	67.1	68.8	73.0	74.4	75.1	75.6	79.4	82.4	87.4
0	22.0	34.5	38.2	53.6	58.2	59.7	62.8	67.1	68.8	73.0	74.4	75.1	75.6	79.4	82.4	87.4
0	22.0	34.8	38.2	53.6	58.2	59.7	62.8	67.1	68.8	73.0	74.4	75.1	75.6	79.4	82.4	87.4
0	22.0	34.5	38.2	53.6	58.2	59.7	62.8	67.1	68.8	73.0	74.4	75.4	76.1	80.0	84.0	89.0

TOTAL NUMBER OF OBSERVATIONS 239

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 3495 FOLDA AAF DL 73-31 STATION NAME YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥10000	13.8	17.5	18.7	23.2	25.3	25.5	26.1	27.0	27.0	27.7	27.8	27.8	27.8	27.8	27.8	27.8
≥9000	16.7	21.9	22.8	27.8	27.5	32.0	33.4	34.9	34.0	36.0	36.2	36.2	36.2	36.2	36.2	36.2
≥8000	16.8	22.3	24.1	31.3	33.1	33.2	34.0	35.5	35.5	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥7000	17.1	22.4	24.3	31.4	33.2	33.4	34.2	35.7	35.7	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥6000	17.6	23.2	25.2	31.7	34.5	34.6	35.4	36.9	36.9	38.0	38.0	38.2	38.2	38.2	38.2	38.2
≥5000	18.1	23.8	25.8	32.5	35.2	35.4	36.2	37.9	37.9	38.9	39.1	39.1	39.1	39.1	39.1	39.1
≥4000	18.7	24.6	26.9	34.2	36.9	37.1	37.9	39.6	39.6	40.5	40.8	40.8	40.8	40.8	40.8	40.8
≥3000	19.2	25.0	27.4	35.5	38.5	38.6	39.4	41.1	41.1	42.3	42.5	42.5	42.5	42.5	42.5	42.5
≥2000	22.6	30.3	32.9	41.9	45.0	45.3	46.2	48.1	48.1	49.5	49.6	49.6	49.6	49.6	49.6	49.6
≥1500	23.5	31.1	34.0	43.3	46.5	46.8	47.9	49.9	49.9	51.3	51.5	51.5	51.5	51.5	51.5	51.5
≥1000	25.6	31.2	34.2	43.6	47.0	47.3	48.4	50.7	50.7	52.1	52.2	52.2	52.2	52.2	52.2	52.2
≥500	25.7	31.2	34.2	47.3	51.7	51.7	52.2	54.6	54.6	56.3	56.4	56.4	56.4	56.4	56.4	56.4
≥400	26.9	35.4	38.3	49.9	53.6	54.1	55.5	57.8	57.8	59.5	59.7	59.7	59.7	59.7	59.7	59.7
≥300	29.4	38.8	41.0	54.7	58.4	58.9	60.3	62.9	63.0	65.1	65.2	65.2	65.2	65.2	65.2	65.2
≥200	31.5	42.7	45.9	60.0	63.8	64.3	65.7	68.3	68.6	70.8	70.9	70.9	70.9	70.9	70.9	70.9
≥150	34.6	47.8	51.3	67.2	71.6	72.2	73.6	76.5	76.8	79.0	79.1	79.1	79.1	79.1	79.1	79.1
≥100	35.4	49.6	53.2	69.4	73.7	74.3	75.7	79.3	79.3	81.5	81.6	81.6	81.6	81.6	81.6	81.6
≥75	36.2	51.8	55.3	72.2	76.7	77.3	78.8	82.5	82.8	85.0	85.2	85.2	85.2	85.2	85.2	85.2
≥50	36.9	52.1	55.6	72.5	77.1	77.7	79.3	83.0	83.3	85.5	85.6	85.6	85.6	85.6	85.6	85.6
≥25	37.5	53.5	57.0	74.5	79.4	80.1	81.6	85.5	85.8	87.9	88.1	88.1	88.1	88.1	88.1	88.1
≥15	38.7	53.9	57.5	75.7	80.8	81.5	83.0	87.0	87.3	89.5	89.6	89.6	89.6	89.6	89.6	89.6
≥10	38.2	54.4	58.1	76.5	82.1	82.7	84.4	88.4	88.7	90.9	91.2	91.2	91.2	91.2	91.2	91.2
≥7.5	38.2	54.4	58.1	76.7	82.2	83.0	84.7	88.7	89.0	91.2	91.5	91.5	91.5	91.5	91.5	91.5
≥5	38.2	54.4	58.1	76.7	82.2	83.0	84.7	88.7	89.0	91.2	91.5	91.5	91.5	91.5	91.5	91.5
≥2.5	38.2	54.4	58.1	76.8	82.4	83.2	85.0	89.3	89.5	92.1	92.4	92.4	92.4	92.4	92.4	92.4
≥1.5	38.2	54.4	58.1	76.8	82.4	83.2	85.0	89.3	89.5	92.1	92.4	92.4	92.4	92.4	92.4	92.4
≥1	38.2	54.4	58.1	76.8	82.4	83.2	85.0	89.3	89.5	92.1	92.4	92.4	92.4	92.4	92.4	92.4

TOTAL NUMBER OF OBSERVATIONS 247

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 445 FIELD AAF CL 73-61 YEAR 1962

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 0-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
100	24.2	29.8	33.4	34.5	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
200	28.7	35.4	36.4	41.5	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
300	28.5	36.4	37.4	41.5	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
400	28.5	36.4	37.4	41.5	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
500	28.8	36.7	37.7	41.8	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
600	29.2	37.0	39.4	42.7	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
700	31.1	39.2	47.4	44.6	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
800	32.3	40.5	41.8	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
900	36.7	46.9	49.4	53.4	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
1000	36.9	47.3	49.4	54.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
1100	37.1	47.6	49.8	54.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
1200	38.4	49.3	51.6	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
1300	41.4	53.4	55.7	62.3	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
1400	43.3	55.4	57.8	65.9	66.7	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
1500	43.4	62.1	64.2	74.5	75.5	75.6	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
1600	54.7	71.7	75.5	87.0	88.8	89.1	89.1	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6
1700	55.7	73.6	77.6	89.3	91.1	91.3	91.6	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1
1800	57.1	75.3	79.7	91.1	92.9	93.1	93.4	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
1900	57.1	75.3	79.6	91.4	93.2	93.4	93.7	94.2	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4
2000	57.7	76.6	81.1	93.2	95.9	96.0	96.4	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2100	57.7	76.6	81.1	93.9	95.9	96.0	96.4	97.2	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5
2200	58.1	76.9	81.4	94.9	97.2	97.5	98.0	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2300	58.1	76.9	81.4	95.2	97.5	97.9	98.4	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2400	58.1	76.9	81.4	95.2	97.5	97.9	98.4	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2500	58.1	76.9	81.4	95.4	97.7	98.0	98.5	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2600	58.7	76.9	81.4	95.4	97.7	98.1	98.7	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2700	58.7	76.9	81.4	95.4	97.7	98.0	98.7	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2800	58.7	76.9	81.4	95.4	97.7	98.0	98.7	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2900	58.7	76.9	81.4	95.4	97.7	98.0	98.7	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000	58.7	76.9	81.4	95.4	97.7	98.0	98.7	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 627

GENERAL CLIMATOLOGY BRANCH
 CE-572AC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 5845 FULDA AAF DL

73-81

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15-2-1700

CEILING (FEET)	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	22.2	28.9	29.4	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
8000	23.7	37.6	38.5	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
6000	29.4	36.4	39.3	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
4000	29.4	36.4	39.3	42.1	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
3000	29.4	39.3	42.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2000	32.7	41.9	43.7	46.0	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
1800	33.1	43.6	44.9	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
1600	38.5	50.1	51.4	55.7	55.9	55.9	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.1	56.1
1400	41.2	53.3	55.5	59.4	59.6	59.6	59.6	59.6	59.8	59.8	60.1	60.1	60.1	60.1	60.1	60.1
1200	41.3	54.7	55.7	59.6	59.8	59.8	59.8	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
1000	44.3	57.7	59.6	63.7	63.9	63.9	63.9	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
800	47.1	61.5	62.4	67.4	67.6	67.6	67.6	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0
600	52.3	69.4	67.2	73.2	73.6	73.6	73.6	73.7	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9
400	55.9	73.6	75.4	81.9	82.3	82.3	82.7	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1
200	59.4	77.5	81.5	90.3	91.1	91.1	91.4	91.6	91.6	92.4	92.4	92.4	92.4	92.4	92.4	92.4
100	61.1	81.4	83.4	92.4	93.7	93.7	94.0	94.2	94.2	95.0	95.0	95.0	95.0	95.0	95.0	95.0
50	61.5	81.9	84.5	94.2	95.5	95.7	96.1	96.3	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0
25	61.5	81.9	84.7	94.4	95.7	95.9	96.3	96.5	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2
15	62.7	82.5	85.5	95.7	97.0	97.2	97.6	97.8	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5
10	62.7	82.5	85.8	96.3	97.6	97.8	98.3	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
5	62.7	82.5	85.8	96.8	98.1	98.1	98.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	62.7	82.5	85.8	96.8	98.1	98.3	98.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	62.7	82.5	85.8	96.8	98.1	98.3	98.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	62.7	82.5	85.8	96.8	98.1	98.3	98.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 537

CENTRAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION NAME FULDA AAF 01

YEAR 73-81

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	
1000	3.1	9.5	17.0	12.0	17.9	12.9	13.1	13.1	17.1	13.9	17.5	14.4	14.6	15.3	15.6	17.1
900	9.5	11.4	13.1	15.3	15.8	15.8	16.3	16.6	16.6	17.5	17.5	18.0	18.2	19.0	19.4	21.2
800	9.7	11.5	13.2	15.4	15.7	16.1	16.5	16.8	16.9	17.7	17.7	18.2	18.3	19.4	19.7	21.4
700	9.7	11.5	13.7	15.4	15.7	16.1	16.5	16.8	16.9	17.7	17.7	18.2	18.3	19.4	19.7	21.5
600	12.7	11.2	13.5	15.8	16.3	16.3	16.8	17.1	17.1	18.7	18.7	18.5	18.7	19.7	20.2	21.2
500	10.5	12.9	14.6	16.0	17.5	17.5	19.7	18.3	19.3	19.4	19.4	19.9	20.7	21.1	21.4	23.7
400	11.2	13.8	15.4	18.2	19.0	19.0	19.7	20.2	20.2	21.2	21.2	21.7	21.9	22.6	23.3	25.1
300	11.9	15.1	17.5	21.4	22.4	22.8	23.8	24.3	24.3	25.3	26.0	26.7	27.1	27.7	28.4	31.0
200	13.3	17.1	19.5	23.8	24.8	25.1	26.1	26.7	26.7	28.2	28.4	29.0	29.4	30.4	30.9	33.9
100	13.9	17.3	19.9	24.1	25.1	25.3	26.5	27.0	27.0	28.5	29.7	29.4	29.7	30.7	31.0	33.1
0	14.4	18.2	21.2	26.3	27.5	27.7	28.9	29.4	29.4	30.9	31.1	31.7	32.1	31.7	31.2	35.2
	15.6	19.8	23.1	27.3	28.7	28.9	30.2	30.7	30.7	32.3	32.4	33.1	33.4	34.6	35.1	37.0
	17.0	22.4	26.1	33.3	34.8	35.1	36.7	37.5	37.7	39.6	39.7	40.4	40.7	42.3	42.8	44.7
	19.5	25.5	29.9	38.4	39.9	40.0	42.4	43.5	43.6	46.0	46.2	46.9	47.2	48.7	49.4	51.3
	22.9	27.2	31.6	41.3	42.7	43.6	45.8	47.9	48.2	51.9	51.1	51.8	52.1	53.7	54.3	56.4
	23.3	28.9	33.3	44.7	45.3	47.0	49.7	52.3	52.6	56.0	56.2	56.9	57.4	58.9	59.8	61.8
	23.7	28.9	33.4	45.0	46.9	47.5	50.3	53.0	53.3	56.7	56.9	57.8	58.1	59.5	60.3	62.3
	22.1	30.2	36.7	49.6	51.8	52.6	55.3	58.6	59.1	62.6	62.8	63.5	64.2	65.5	66.2	68.3
	22.2	31.6	37.7	52.0	54.8	55.7	58.6	62.0	62.5	66.0	66.2	66.9	67.4	68.9	69.8	71.8
	22.2	31.6	37.9	54.2	58.1	59.1	62.5	66.4	66.9	71.1	71.3	72.3	72.5	74.4	75.2	77.1
	22.2	31.6	37.9	56.0	59.9	61.1	65.0	69.4	70.1	74.7	74.9	75.6	76.1	77.9	78.6	80.6
	22.2	31.6	38.2	56.7	61.1	62.5	66.6	71.3	72.2	76.7	76.9	77.6	78.1	80.0	80.6	82.7
	22.2	31.6	38.2	56.7	61.1	62.5	66.6	72.2	73.3	78.4	78.6	79.3	79.8	81.7	82.3	84.4
	22.2	31.6	38.2	56.9	61.3	62.6	66.7	72.5	73.7	79.9	80.0	80.6	81.2	83.4	84.0	86.9
	22.2	31.6	38.2	56.9	61.3	62.6	66.7	72.7	74.0	80.3	80.5	81.2	81.7	84.2	85.4	88.3
	22.2	31.6	38.2	56.9	61.3	62.6	66.7	72.7	74.0	80.6	80.8	81.5	82.0	85.7	87.4	90.5
	22.2	31.6	38.2	56.9	61.3	62.6	66.7	72.7	74.0	80.8	81.0	81.7	82.3	86.4	88.5	91.8
	22.2	31.6	38.2	56.9	61.3	62.6	66.7	72.7	74.0	80.8	81.0	81.7	82.5	86.9	89.1	92.7

TOTAL NUMBER OF OBSERVATIONS 583

FEDERAL BUREAU OF SURVEY
 CEILING VERSUS VISIBILITY
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

170455 0000 AAF 0L STATION NAME

73-81 YEAR

861

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0-10-100

CEILING FEET	VISIBILITY - STATUTE MILES															
	10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	
1000	3.3	11.3	11.4	13.6	14.5	14.6	15.4	16.0	15.1	16.8	16.8	16.8	16.8	16.8	16.8	17.6
900	11.3	16.3	16.7	20.4	21.7	21.8	23.3	23.9	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.5
800	11.3	16.3	16.7	20.4	21.7	21.8	23.3	23.9	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.5
700	11.3	16.3	16.7	20.4	21.7	21.8	23.3	23.9	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.5
600	12.3	17.3	17.7	21.4	22.7	22.8	24.3	24.9	25.7	25.8	25.8	25.8	25.8	25.8	25.8	27.1
500	12.4	17.9	18.6	22.5	23.9	24.1	25.5	26.1	26.2	26.9	26.9	26.9	26.9	26.9	26.9	27.4
400	13.6	19.0	19.8	24.0	25.3	25.5	26.9	27.5	27.7	28.4	28.4	28.4	28.4	28.4	28.4	29.7
300	14.7	20.9	22.1	25.6	26.4	26.7	31.0	31.8	32.1	32.8	32.8	32.8	32.8	32.8	32.8	34.1
200	16.3	22.3	23.4	28.4	30.2	30.5	32.9	34.0	34.4	35.1	35.1	35.1	35.1	35.1	35.1	36.5
100	16.5	22.5	23.9	29.1	30.9	31.2	33.7	34.7	35.1	35.9	35.9	35.9	35.9	35.9	35.9	37.0
50	17.1	23.3	24.7	30.2	31.9	32.2	34.7	36.0	36.5	37.2	37.2	37.2	37.2	37.2	37.2	38.7
30	18.9	25.3	26.2	32.5	34.7	35.0	37.5	38.9	39.4	40.1	40.1	40.1	40.1	40.1	40.1	41.6
20	20.3	27.4	27.3	35.4	37.9	38.2	40.7	42.3	42.8	43.6	43.6	43.6	43.6	43.6	43.6	45.1
15	22.2	29.9	32.2	38.8	41.7	42.0	45.4	47.0	47.4	48.3	48.3	48.3	48.3	48.3	48.3	49.9
10	26.9	34.8	37.5	45.7	48.9	49.3	52.9	54.9	55.3	56.2	56.2	56.2	56.2	56.2	56.2	57.8
5	28.3	37.5	47.2	49.2	52.9	53.3	57.7	59.7	60.5	61.3	61.3	61.3	61.3	61.3	61.3	63.0
3	32.6	40.8	44.4	54.2	57.8	58.4	62.4	65.6	66.3	67.5	67.5	67.5	67.5	67.5	67.5	70.1
2	31.2	41.4	45.1	55.3	59.0	59.6	63.5	66.8	67.5	68.7	68.7	68.7	68.7	68.7	68.7	71.3
1	32.2	43.8	48.0	59.6	63.5	64.1	68.2	71.7	72.5	73.8	73.8	73.8	73.8	73.8	73.8	76.0
0	33.2	44.4	49.2	62.1	66.2	66.8	70.9	74.5	75.3	76.6	76.6	76.6	76.6	76.6	76.6	79.0
0	33.2	44.5	49.0	64.3	69.8	70.6	74.7	78.3	79.1	80.5	80.5	80.5	80.5	80.5	80.5	83.5
0	33.4	44.7	50.1	65.2	71.0	71.7	75.8	79.9	80.7	82.1	82.1	82.1	82.1	82.1	82.1	85.1
0	33.4	44.7	50.1	65.7	71.7	72.3	77.7	82.4	83.3	84.9	84.9	84.9	84.9	84.9	84.9	87.4
0	33.4	44.7	50.1	65.9	72.8	73.8	79.1	84.0	85.1	86.8	86.8	86.8	86.8	86.8	86.8	89.0
0	33.4	44.7	50.1	66.0	72.9	74.1	79.5	84.9	85.9	87.8	87.8	87.8	87.8	87.8	87.8	90.2
0	33.4	44.7	50.1	66.0	72.9	74.1	79.6	85.2	86.2	88.4	88.4	88.4	88.4	88.4	88.4	91.0
0	33.4	44.7	50.1	66.0	72.9	74.1	79.6	85.5	86.7	88.9	88.9	88.9	88.9	88.9	88.9	91.1
0	33.4	44.7	50.1	66.0	72.9	74.1	79.6	85.5	86.7	88.9	88.9	88.9	88.9	88.9	88.9	91.4
0	33.4	44.7	50.1	66.0	72.9	74.1	79.6	85.5	86.7	88.9	88.9	88.9	88.9	88.9	88.9	91.4

TOTAL NUMBER OF OBSERVATIONS 693

FEDERAL BUREAU OF SURVEY
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1945 FULDA AAF DL STATION NAME

72-53 YEAR

261

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12-2-1400

CEILING FEET	VISIBILITY STATE MILES															
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	15.2	20.2	21.2	23.8	24.2	24.4	24.4	24.5	25.7	25.2	25.2	25.2	25.2	25.2	25.2	25.2
15000	19.7	25.9	26.9	31.2	31.8	32.1	32.5	32.9	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2
10000	19.7	25.9	26.9	31.2	31.8	32.1	32.5	32.9	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2
7000	19.7	25.9	26.9	31.2	31.8	32.1	32.5	32.9	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2
5000	20.1	26.2	27.2	31.5	32.1	32.5	32.8	33.2	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
4000	21.3	27.8	29.7	33.2	34.0	34.3	34.6	35.1	35.7	35.4	35.4	35.4	35.4	35.4	35.4	35.4
3000	21.1	25.3	29.2	33.7	34.5	34.8	35.1	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2000	24.3	33.1	34.0	38.0	39.9	40.2	40.7	41.3	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6
1500	25.2	34.5	35.6	41.3	42.4	42.7	43.2	43.8	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1
1000	26.2	34.9	36.7	41.9	43.0	43.3	43.9	44.4	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7
800	26.7	35.7	37.1	42.7	43.8	44.1	44.6	45.2	45.7	45.5	45.5	45.5	45.5	45.5	45.5	45.5
600	28.7	36.0	39.3	45.2	45.4	45.7	47.2	47.8	48.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1
400	31.1	39.6	40.8	47.1	48.6	48.9	49.4	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3
300	34.7	46.3	49.4	56.7	59.2	59.5	61.2	61.7	61.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2
200	42.5	55.4	59.1	67.2	69.7	70.2	70.8	71.4	71.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
150	44.7	59.7	63.7	72.7	75.6	75.9	76.7	77.5	78.7	78.6	78.6	78.6	78.6	78.6	78.6	78.6
100	46.4	61.7	65.9	77.2	81.3	80.6	81.7	83.7	84.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1
8000	46.9	62.0	67.7	78.3	81.4	81.7	82.8	84.8	85.4	86.2	86.2	86.2	86.2	86.2	86.2	86.2
6000	47.3	63.7	69.6	81.4	84.6	85.1	86.2	88.4	89.1	89.9	89.9	89.9	89.9	89.9	89.9	89.9
4000	48.3	64.6	71.7	83.4	85.6	87.4	88.5	90.7	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
3000	48.9	65.2	71.9	84.9	89.5	89.3	90.8	93.0	93.8	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2000	49.1	65.4	71.7	85.6	89.9	91.7	92.2	94.5	95.7	96.3	96.3	96.3	96.3	96.3	96.3	96.3
1500	49.1	65.4	71.9	85.9	91.5	91.3	92.9	95.2	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9
1000	49.1	65.4	71.9	85.9	91.7	91.6	93.2	95.7	96.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
800	49.1	65.4	71.9	86.0	91.8	91.8	93.3	96.1	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
600	49.1	65.4	71.9	86.0	91.8	91.9	93.5	96.7	97.5	99.1	99.1	99.2	99.2	99.2	99.2	99.2
400	49.1	65.4	71.9	86.0	92.8	91.9	93.5	96.7	97.7	99.4	99.5	99.7	99.7	99.7	99.7	99.7
300	49.1	65.4	71.9	86.0	92.8	91.9	93.5	97.0	97.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8
200	49.1	65.4	71.9	86.0	92.8	91.9	93.5	97.0	97.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8
150	49.1	65.4	71.9	86.0	92.8	91.9	93.5	97.0	97.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8
100	49.1	65.4	71.9	86.0	92.8	91.9	93.5	97.0	97.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 644

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1 1445 FULDA AAF DL

73-81

001

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 0-17 00

HEIGHT FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
29000	27.3	24.2	25.7	26.8	27.1	27.1	27.3	28.0	28.7	28.0	28.7	28.7	28.7	28.7	28.7	28.7
28000	25.7	30.2	31.5	33.1	33.5	33.5	33.6	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
27000	26.4	31.1	32.7	34.0	34.4	34.4	34.5	35.3	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
26000	25.6	31.3	32.7	34.2	34.5	34.5	34.7	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
25000	26.8	31.5	33.1	34.4	34.7	34.7	34.9	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
24000	28.4	33.1	34.7	36.2	36.5	36.5	36.7	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
23000	29.7	34.5	35.2	37.0	38.0	38.0	38.2	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
22000	33.5	40.1	41.0	43.0	44.1	44.1	44.3	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
21000	36.7	43.2	45.0	47.4	48.1	48.1	48.3	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
20000	37.1	43.2	45.0	48.1	48.8	48.8	49.0	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
19000	33.3	45.2	47.0	49.7	50.5	50.5	50.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
18000	39.1	46.1	48.0	51.9	52.8	52.8	53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
17000	41.6	49.7	52.3	56.1	57.0	57.0	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
16000	47.2	57.1	60.0	65.5	66.4	66.4	67.5	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
15000	53.2	64.9	68.2	74.7	75.8	75.8	77.4	78.1	78.3	78.8	78.8	78.8	78.8	78.8	78.8	78.8
14000	54.6	67.5	71.4	78.5	79.7	79.7	81.4	82.1	82.3	82.8	82.8	82.8	82.8	82.8	82.8	82.8
13000	55.3	68.9	74.7	82.1	83.4	83.4	85.5	86.0	86.8	87.3	87.3	87.3	87.3	87.3	87.3	87.3
12000	55.7	69.4	75.2	82.6	83.9	83.9	86.1	87.2	87.3	87.9	87.9	87.9	87.9	87.9	87.9	87.9
11000	55.2	70.3	76.0	85.7	87.5	87.5	89.7	90.8	91.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5
10000	57.1	72.3	79.2	88.6	90.8	90.8	92.9	94.0	94.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8
9000	57.5	72.7	79.6	90.4	92.9	92.9	95.1	96.4	96.6	97.3	97.3	97.3	97.3	97.3	97.3	97.3
8000	57.7	73.2	80.1	91.1	93.7	93.7	95.8	97.5	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
7000	57.7	73.2	80.1	91.1	93.9	93.9	96.0	97.6	97.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7
6000	57.7	73.2	80.1	91.1	94.0	94.0	96.2	97.8	98.0	98.9	98.9	98.9	98.9	98.9	98.9	98.9
5000	57.7	73.2	80.1	91.1	94.0	94.0	96.2	98.0	98.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6
4000	57.7	73.2	80.1	91.1	94.0	94.0	96.2	98.4	98.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
3000	57.7	73.2	80.1	91.1	94.0	94.0	96.2	98.4	98.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
2000	57.7	73.2	80.1	91.1	94.0	94.0	96.2	98.4	98.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
1000	57.7	73.2	80.1	91.1	94.0	94.0	96.2	98.4	98.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 353

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1945

FOLDA AAF DL

73-51

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	210	20	25	24	23	22	21	20	19	18	17	16	
20000	7.5	10.2	11.1	12.9	13.8	13.3	17.8	14.3	14.2	14.7	14.2	14.7	14.2
18000	8.5	12.7	13.1	15.1	16.2	16.0	15.7	16.2	16.4	16.4	16.4	16.4	16.4
16000	8.5	12.5	13.1	15.1	16.7	16.2	16.7	16.2	16.4	16.4	16.4	16.4	16.4
14000	8.5	12.5	13.1	15.1	15.7	16.7	16.7	16.2	16.4	16.4	16.4	16.4	16.4
12000	8.9	12.4	13.7	15.2	16.4	16.4	16.4	16.5	16.7	16.7	16.7	16.7	16.7
10000	10.5	14.7	15.5	17.8	18.7	18.9	18.9	19.1	19.7	19.3	19.7	19.3	19.7
9000	10.7	14.4	15.5	18.2	19.1	19.3	19.3	19.5	19.6	19.6	19.6	19.6	19.6
8000	13.5	17.6	19.3	22.2	23.1	23.3	27.3	23.5	23.4	23.4	23.4	23.4	23.4
7000	14.7	18.5	22.2	23.3	24.2	24.4	24.4	24.5	24.7	24.7	24.7	24.7	24.7
6000	14.7	18.5	22.2	23.3	24.2	24.4	24.4	24.5	24.7	24.7	24.7	24.7	24.7
5000	14.9	19.5	21.1	24.7	25.6	25.6	25.6	26.2	26.2	26.2	26.2	26.2	26.2
4500	17.1	22.2	23.3	27.5	28.4	28.5	28.5	28.7	28.9	28.9	28.9	28.9	28.9
4000	17.6	22.7	24.4	28.4	29.5	29.8	29.8	30.0	30.2	30.2	30.2	30.2	30.2
3500	23.3	25.5	27.1	33.1	34.7	34.9	34.9	35.1	35.7	35.3	35.3	35.3	35.3
3000	23.3	25.5	27.1	33.1	34.7	34.9	34.9	35.1	35.7	35.3	35.3	35.3	35.3
2500	24.4	32.5	35.5	46.5	43.5	49.1	49.1	49.8	51.7	50.7	50.7	50.7	50.7
2000	25.5	34.4	37.6	50.5	51.5	54.1	54.2	55.3	55.6	55.6	55.6	55.6	55.6
1800	25.3	35.1	38.4	52.0	55.3	55.3	56.7	57.5	57.2	57.2	57.2	57.2	57.2
1600	26.7	36.4	40.2	59.1	63.1	64.1	64.2	66.7	67.1	67.1	67.1	67.1	67.1
1400	27.5	37.6	42.7	63.5	67.6	68.5	69.5	71.5	71.5	71.5	71.5	71.5	71.5
1200	27.5	38.9	43.8	67.6	73.3	74.4	75.6	78.2	78.5	78.5	78.5	78.5	78.5
1000	27.5	39.6	45.1	69.6	76.5	77.6	79.1	81.8	82.5	82.5	82.5	82.5	82.5
900	27.5	39.6	45.1	70.0	77.3	78.5	80.4	83.1	83.8	84.1	84.1	84.1	84.1
800	27.5	40.0	45.6	71.5	79.1	80.4	82.7	85.6	86.4	86.4	86.4	86.4	86.4
700	27.5	40.7	45.6	72.5	80.2	81.5	84.4	87.3	88.2	88.2	88.2	88.2	88.2
600	27.5	40.7	45.6	72.5	81.3	82.5	86.2	89.0	90.4	91.0	91.0	91.0	91.0
500	27.5	40.4	46.1	72.9	81.6	82.9	86.5	90.2	91.1	92.5	92.5	92.5	92.5
400	27.5	40.4	46.0	72.9	81.6	82.9	86.5	90.2	91.1	92.7	92.7	92.7	92.7
300	27.5	40.4	46.0	72.9	81.6	82.9	86.5	90.2	91.1	92.9	92.9	92.9	92.9
200	27.5	40.4	46.0	72.9	81.6	82.9	86.5	90.2	91.1	92.9	92.9	92.9	92.9

TOTAL NUMBER OF OBSERVATIONS

FEDERAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1945 FLEDA AAF DL 73-81

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12-0-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	8.5	11.3	11.7	13.1	14.7	14.1	14.1	14.1	14.3	14.3	15.7	14.3	15.3	15.3	15.7	15.3
8000	13.5	16.3	17.1	19.8	21.1	21.3	21.3	21.3	21.4	22.1	22.7	22.6	22.9	22.9	22.5	22.6
6000	13.5	16.4	17.3	19.9	21.4	21.2	21.5	21.6	21.8	22.4	22.6	22.9	22.9	22.9	22.9	22.6
4000	13.8	16.6	17.4	20.1	21.6	21.8	21.8	21.8	21.9	22.6	22.9	23.1	23.1	23.1	23.1	23.1
2000	14.1	17.1	17.8	22.6	22.1	22.3	22.3	22.3	22.4	23.1	23.7	23.6	23.6	23.6	23.6	23.6
1000	15.3	18.3	19.1	21.9	23.6	23.3	23.9	23.9	24.7	24.9	25.1	25.4	25.4	25.4	25.4	25.4
800	18.3	20.4	21.7	24.1	25.7	25.9	26.1	26.1	26.4	27.1	27.2	27.6	27.6	27.6	27.6	27.6
600	19.5	23.9	25.1	28.4	30.1	30.2	30.4	30.4	30.7	31.4	31.6	31.9	31.9	31.9	31.9	31.9
400	20.7	25.4	27.4	31.1	32.9	33.1	33.2	33.2	33.6	34.2	34.4	34.7	34.7	34.7	34.7	34.7
200	21.3	25.9	27.9	31.6	33.4	33.6	33.7	33.7	34.1	34.7	34.9	35.2	35.2	35.2	35.2	35.2
100	22.6	27.9	31.1	33.7	35.5	35.7	35.9	35.9	36.2	36.9	37.0	37.4	37.4	37.4	37.4	37.4
80	24.6	31.7	32.9	36.9	39.2	39.5	39.7	39.7	40.7	40.9	41.2	41.2	41.2	41.2	41.2	41.2
60	27.1	34.6	36.7	41.7	43.6	43.4	43.5	43.5	43.9	44.5	44.7	45.2	45.2	45.2	45.2	45.2
40	32.4	40.5	42.7	47.8	51.2	50.5	50.7	50.7	51.1	51.7	51.9	52.7	52.7	52.7	52.7	52.7
20	37.2	47.7	49.7	56.6	59.7	59.3	59.1	59.8	61.1	61.8	62.7	62.7	62.7	62.7	62.7	62.7
10	43.3	50.0	53.7	61.0	63.6	64.3	65.1	65.6	66.1	66.8	66.9	67.4	67.4	67.4	67.4	67.4
8	42.4	52.7	57.6	65.9	68.8	69.3	71.4	71.1	71.4	72.1	72.3	72.8	72.8	72.8	72.8	72.8
6	43.2	54.8	59.0	67.6	70.4	70.9	72.3	73.3	73.6	74.3	74.4	74.9	74.9	74.9	74.9	74.9
4	44.2	57.8	62.1	73.1	75.9	76.6	77.9	79.4	80.1	80.7	80.9	81.4	81.4	81.4	81.4	81.4
2	45.5	59.1	64.1	76.2	79.2	79.9	81.4	82.9	83.6	84.2	84.4	84.9	84.9	84.9	84.9	84.9
1	45.5	59.6	65.5	79.1	82.2	83.1	84.9	86.7	87.4	88.0	88.4	88.9	88.9	88.9	88.9	88.9
0.8	45.5	60.1	66.7	81.1	83.7	84.6	86.7	88.9	89.5	90.2	90.5	91.0	91.0	91.0	91.0	91.0
0.6	45.4	60.1	66.4	81.1	84.9	85.7	88.0	90.5	91.2	91.9	92.2	92.7	92.7	92.7	92.7	92.7
0.4	45.3	60.1	66.6	81.6	85.4	86.2	88.9	91.4	92.0	92.7	93.0	93.5	93.5	93.5	93.5	93.5
0.2	45.3	60.1	66.5	81.6	85.4	86.2	89.7	92.2	92.9	93.5	93.9	94.5	94.5	94.5	94.5	94.5
0.1	45.3	60.1	66.6	81.6	85.4	86.5	89.9	93.7	94.4	95.2	95.5	96.5	96.5	96.5	96.5	96.5
0.05	45.3	60.1	66.6	81.6	85.4	86.5	90.0	94.2	95.2	96.5	96.8	97.8	97.8	97.8	97.8	97.8
0.02	45.3	60.1	65.6	81.6	85.4	86.5	90.2	94.2	95.2	96.8	97.2	98.5	98.5	98.5	98.5	98.5
0.01	45.3	60.1	66.6	81.6	85.4	86.5	90.3	94.2	95.2	96.8	97.2	98.5	98.7	99.5	99.5	99.5
0.005	45.3	60.1	66.6	81.6	85.4	86.5	90.3	94.2	95.2	96.8	97.2	98.5	98.7	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 600

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAO

CEILING VERSUS VISIBILITY

1-445

F. LDA AAF DL

73-21

1954

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15-0-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	26	25	24	23	22	22	21	21	21	20	20	19	18	17	17
2 10000	11.7	12.4	13.6	16.3	16.7	16.7	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2 7500	13.9	17.1	13.7	22.8	24.2	24.2	25.0	25.0	25.0	25.0	25.0	25.0	25.1	25.1	25.1	25.1
2 5000	14.7	18.3	27.0	24.2	25.5	25.5	26.3	26.3	26.3	26.3	26.3	26.3	26.5	26.5	26.5	26.5
2 4000	14.9	18.3	27.0	24.2	25.5	25.5	26.3	26.3	26.3	26.3	26.3	26.3	26.5	26.5	26.5	26.5
2 3000	15.3	18.7	27.4	24.6	25.9	25.9	26.7	26.7	26.7	26.7	26.7	26.7	26.9	26.9	26.9	26.9
2 2000	16.3	20.0	21.4	26.1	27.5	27.5	28.3	28.3	28.3	28.3	28.3	28.3	28.5	28.5	28.5	28.5
2 1500	17.3	21.4	27.2	27.5	28.9	28.9	29.7	29.7	29.7	29.7	29.7	29.7	29.9	29.9	29.9	29.9
2 1000	21.3	26.3	28.1	33.6	35.0	35.0	35.8	35.8	35.8	35.8	35.8	35.8	36.0	36.0	36.0	36.0
2 800	21.7	26.7	29.3	35.0	36.3	36.3	37.1	37.1	37.1	37.1	37.1	37.1	37.3	37.3	37.3	37.3
2 600	21.1	26.7	29.3	35.0	36.3	36.3	37.1	37.1	37.1	37.1	37.1	37.1	37.3	37.3	37.3	37.3
2 500	21.3	27.7	32.5	36.1	37.5	37.5	38.3	38.3	38.3	38.3	38.3	38.3	38.5	38.5	38.5	38.5
2 4500	22.6	28.9	31.6	37.9	39.3	39.3	40.5	40.5	40.5	40.5	40.5	40.5	40.7	40.7	40.7	40.7
2 4000	25.7	33.6	35.3	42.6	44.0	44.0	45.2	45.2	45.2	45.2	45.2	45.2	45.4	45.4	45.4	45.4
2 3500	30.9	40.5	43.8	51.1	52.5	52.5	53.6	53.6	53.6	53.6	53.6	53.6	54.0	54.0	54.0	54.0
2 3000	37.7	48.7	53.1	61.9	63.3	63.3	64.8	64.8	64.8	64.8	64.8	64.8	65.4	65.4	65.4	65.4
2 2500	33.3	51.1	56.0	66.8	68.2	68.2	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3
2 2000	39.3	52.7	58.7	71.1	72.7	72.7	74.5	74.5	74.5	74.5	74.5	74.5	75.2	75.2	75.2	75.2
2 1800	40.1	54.0	60.7	73.9	75.4	75.4	77.2	77.2	77.2	77.2	77.2	77.2	78.0	78.0	78.0	78.0
2 1500	41.7	57.6	64.4	80.6	82.7	82.7	84.7	84.7	84.7	84.7	84.7	84.7	85.5	85.5	85.5	85.5
2 1200	41.8	58.5	65.4	83.5	85.9	85.9	87.8	87.8	87.8	87.8	87.8	87.8	89.2	89.2	89.2	89.2
2 1000	42.7	58.7	66.8	84.9	87.6	87.6	90.2	90.2	90.2	90.2	90.2	90.2	92.3	92.3	92.3	92.3
2 900	42.7	58.7	66.8	84.9	87.6	87.6	90.2	90.2	90.2	90.2	90.2	90.2	92.3	92.3	92.3	92.3
2 800	42.7	58.9	67.7	86.1	88.8	88.8	91.7	91.7	91.7	91.7	91.7	91.7	94.5	94.5	94.5	94.5
2 700	42.7	58.9	67.4	86.4	89.2	89.2	92.7	92.7	92.7	92.7	92.7	92.7	95.3	95.3	95.3	95.3
2 600	42.7	58.9	67.4	86.6	89.6	89.6	92.5	92.5	92.5	92.5	92.5	92.5	96.7	96.7	96.7	96.7
2 500	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	97.2	97.2	97.2	97.2
2 400	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	97.6	97.6	97.6	97.6
2 300	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	98.0	98.0	98.0	98.0
2 200	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	98.4	98.4	98.4	98.4
2 150	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	98.4	98.4	98.4	98.4
2 100	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	98.4	98.4	98.4	98.4
2 50	42.7	58.9	67.4	86.6	89.6	89.6	92.7	92.7	92.7	92.7	92.7	92.7	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 579

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

CEILING VERSUS VISIBILITY

15445 FLDCA AAF DL 73-81

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY - STATUTE MILES													
	20	26	25	24	23	22	21	20	19	18	17	16	15	14
10000	5.1	5.3	7.9	10.1	10.0	12.5	13.3	13.5	13.6	14.2	14.7	14.7	14.4	14.7
9000	7.4	8.1	9.2	11.4	13.3	13.4	14.7	15.1	15.1	15.7	15.7	15.7	15.3	16.2
8000	7.5	8.3	9.8	11.8	13.6	13.8	15.1	15.3	15.3	16.0	16.0	16.0	16.2	16.6
7000	7.5	8.5	9.6	11.8	13.6	13.8	15.1	15.5	15.5	16.0	16.0	16.3	16.4	16.9
6000	7.5	8.5	9.9	12.2	14.0	14.2	15.5	15.8	15.8	16.4	16.4	16.4	16.6	17.3
5000	7.7	8.7	10.1	12.3	14.2	14.4	15.7	16.0	16.2	16.8	16.8	16.8	16.9	17.7
4000	8.1	9.2	10.5	12.7	14.5	14.7	16.0	16.4	16.6	17.1	17.1	17.1	17.3	18.0
3000	8.5	10.1	11.8	14.4	16.2	16.4	17.7	18.0	18.3	18.8	18.8	18.8	19.3	19.7
2000	9.2	10.1	11.5	14.5	16.4	16.6	17.9	18.2	18.4	19.2	19.2	19.2	19.3	19.7
1000	9.5	10.1	11.8	14.5	16.4	16.6	17.9	18.2	18.4	19.2	19.2	19.2	19.3	19.7
500	9.7	11.4	13.3	16.4	18.2	18.4	19.7	20.1	20.7	21.0	21.0	21.0	21.2	21.5
000	10.5	14.0	15.8	19.2	21.4	21.5	23.0	23.4	23.4	24.3	24.7	24.3	24.5	24.8
200	12.7	14.7	16.6	20.6	23.0	23.2	24.7	25.4	25.4	26.3	26.7	26.3	26.5	26.9
100	13.5	19.7	21.1	26.5	29.9	29.1	30.6	31.3	31.5	32.0	32.7	32.2	32.4	32.9
50	16.5	22.8	25.7	33.3	35.9	36.1	37.6	38.5	38.7	39.4	39.4	39.4	39.8	40.1
20	19.0	26.3	30.4	39.0	42.4	42.5	44.0	44.9	45.1	45.9	45.9	45.9	46.2	46.6
10	22.5	29.1	33.5	44.2	45.7	49.2	51.6	52.7	53.7	53.8	53.8	53.8	54.1	54.5
5	21.7	30.0	34.4	45.7	50.5	50.6	53.0	54.1	54.5	55.2	55.2	55.2	55.6	56.0
3	24.3	34.3	40.0	53.2	58.6	59.1	61.7	62.8	63.4	64.7	64.7	64.7	64.6	65.7
2	25.1	35.5	42.0	58.7	64.8	65.4	68.1	69.2	69.8	70.7	70.7	70.7	71.1	71.5
1	25.5	36.3	44.2	64.1	72.7	72.9	75.7	77.4	77.5	78.5	78.5	78.5	78.8	79.2
0	26.0	36.5	45.1	65.9	73.1	74.0	78.6	80.1	80.7	81.6	81.6	81.6	82.1	82.7
0	26.3	37.0	45.3	67.6	75.5	76.4	81.0	82.7	83.2	84.2	84.2	84.2	84.5	84.9
0	26.3	37.0	45.3	69.1	77.9	79.0	83.8	86.4	86.9	87.8	87.8	87.8	88.2	88.7
0	26.3	37.0	45.3	69.4	78.3	79.4	84.3	87.1	87.8	88.8	88.8	88.8	89.1	89.5
0	26.3	37.1	45.4	69.4	78.8	79.9	85.3	88.4	89.1	90.4	90.4	90.4	90.8	91.3
0	26.3	37.0	45.4	69.6	79.0	80.1	85.8	89.1	89.9	91.5	91.5	91.5	91.9	92.4
0	26.3	37.0	45.4	69.6	79.0	80.1	86.4	90.1	90.9	92.6	92.6	92.6	93.0	93.5
0	26.3	37.0	45.4	69.6	79.0	80.1	86.4	90.1	90.9	92.6	92.6	92.6	93.0	93.5
0	26.3	37.0	45.4	69.6	79.0	80.1	86.4	90.1	90.9	92.6	92.6	92.6	93.0	93.5

TOTAL NUMBER OF OBSERVATIONS 547

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE /MAC

CEILING VERSUS VISIBILITY

1 445 8.00A AAF 00

70-01

0-0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
4.7	5.3	5.6	8.9	9.4	9.4	9.7	10.7	11.5	12.1	12.1	12.1	12.3	12.6	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
6.3	7.0	7.7	11.7	12.7	12.8	12.8	14.1	14.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
8.7	7.7	8.1	12.3	12.9	13.1	13.4	14.9	15.7	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
6.2	7.7	8.1	12.3	12.1	13.3	13.6	15.0	15.3	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
7.7	7.7	8.1	12.3	12.1	13.3	13.6	15.0	15.3	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
6.2	7.7	8.1	12.3	12.1	13.3	13.6	15.0	15.3	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
8.7	8.0	8.0	12.3	12.4	14.5	14.9	16.3	17.1	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
6.2	8.6	9.1	13.9	14.7	14.9	15.2	16.8	17.4	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
8.7	10.7	11.3	17.4	18.4	18.6	19.8	20.3	21.1	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
8.7	10.9	11.5	17.7	18.7	18.8	19.5	20.9	21.7	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
8.7	11.7	12.7	13.5	13.6	13.3	23.4	21.9	22.7	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
12.4	13.7	14.5	21.9	22.2	22.4	23.2	24.4	25.2	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
11.3	15.3	15.8	23.3	24.8	24.9	25.6	27.0	27.8	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
12.4	21.9	22.7	31.3	32.7	32.9	33.5	35.1	35.9	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
12.4	22.2	27.0	37.1	32.2	39.1	39.8	41.4	42.7	42.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
22.2	29.9	32.7	43.5	45.7	45.8	47.0	48.6	49.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
27.2	35.9	39.7	53.0	55.9	56.1	57.7	59.8	60.7	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
22.2	29.3	42.1	58.2	61.5	61.5	63.7	65.9	67.1	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
22.1	41.5	42.5	62.6	66.7	68.5	69.5	70.9	71.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
22.4	43.5	42.1	67.4	71.2	71.7	74.0	76.5	77.3	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
22.4	43.5	42.1	63.1	72.7	73.2	75.6	77.8	79.2	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
22.4	43.5	42.4	71.7	77.8	78.3	81.6	84.2	85.4	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
22.4	43.5	42.5	72.7	78.9	79.4	83.2	85.2	88.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
22.4	43.5	42.5	72.8	79.4	79.9	83.7	86.9	89.7	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
22.4	43.5	42.5	72.8	79.6	80.0	83.0	87.1	89.5	92.8	93.1	93.5	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
22.4	43.5	42.5	72.8	79.6	80.0	84.2	87.4	89.9	93.8	93.9	94.2	95.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
22.4	43.5	42.5	72.8	79.6	80.0	84.2	87.7	90.4	94.1	94.5	94.9	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
22.4	43.5	42.5	72.8	79.6	80.0	84.2	87.7	90.4	94.1	94.6	94.9	95.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
22.4	43.5	42.5	72.8	79.6	80.0	84.2	87.7	90.4	94.1	94.6	94.9	95.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS 939

CENTRAL COMMANDER'S OFFICE
 AIR FORCE
 AIR WEATHER SERVICE/ALMAZ

CEILING VERSUS VISIBILITY

1 447 73-51
 STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

12-1-1950

CEILING FEET	VISIBILITY STATE MILES															
	1/2	3/4	1	1 1/4	1 1/2	2	3	4	5	6	7	8				
1000	10.2	11.1	11.8	12.3	13.9	15.7	14.4	15.7	14.0	11.2	11.7	11.2	11.2	11.1	14.7	11.7
900	9.4	11.2	11.2	16.4	17.6	18.1	18.8	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
800	9.4	12.3	17.7	16.2	17.8	18.1	18.9	21.4	21.7	20.7	20.7	20.7	20.7	20.7	21.7	21.7
700	2.4	1.4	11.4	16.4	18.0	18.1	19.1	21.8	22.7	22.2	22.0	22.0	22.0	22.0	22.0	22.0
600	9.7	11.7	17.7	16.7	18.7	18.6	19.4	21.9	21.7	21.2	21.2	21.2	21.2	21.4	21.7	21.7
500	12.4	14.4	19.4	17.4	19.3	19.6	21.4	21.4	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
400	11.7	13.8	16.1	19.6	21.2	21.5	22.3	23.3	23.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1
300	12.1	13.2	17.1	21.4	22.0	22.3	23.1	24.1	24.1	24.9	24.9	24.9	24.9	24.9	24.9	24.9
200	14.0	15.6	17.7	24.3	25.4	25.7	27.5	29.0	29.1	29.7	29.7	29.7	29.7	29.7	29.7	29.7
100	15.1	19.1	23.2	25.0	27.3	27.7	28.6	32.1	32.3	32.6	32.6	32.6	32.6	32.6	32.6	32.6
0	18.7	19.1	23.7	25.3	27.3	27.7	28.0	30.1	30.7	30.6	30.7	30.6	30.7	30.6	30.7	30.7
1000	23.4	13.7	21.8	24.2	24.2	24.3	24.3	32.7	32.9	31.2	31.2	31.2	31.2	31.2	31.2	31.2
900	17.4	22.2	27.9	29.5	31.2	31.5	32.5	34.0	34.1	34.5	34.5	34.5	34.5	34.5	34.5	34.5
800	17.4	22.1	24.5	33.3	33.3	33.3	33.9	36.9	36.9	37.7	37.7	37.7	37.7	37.7	37.7	37.7
700	23.7	27.4	37.4	40.3	41.9	42.2	44.3	45.1	45.7	46.4	46.4	46.4	46.4	46.4	46.4	46.4
600	27.2	29.1	27.9	46.6	48.9	49.2	51.6	53.2	53.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1
500	37.7	17.7	42.1	52.4	54.7	55.3	57.8	59.4	59.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2
400	42.3	42.1	45.1	58.0	57.4	58.2	62.9	64.7	65.7	65.2	65.2	65.2	65.2	65.2	65.2	65.2
300	34.7	43.7	47.4	59.0	61.3	62.1	64.9	66.0	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
200	38.7	49.1	51.0	63.0	67.0	67.2	71.2	72.1	73.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
100	34.7	49.7	54.9	61.6	71.7	73.5	76.5	78.5	79.7	80.5	80.6	80.6	80.6	80.6	80.6	80.6
0	37.1	50.2	57.1	71.3	73.3	73.2	82.5	85.0	85.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1000	39.1	50.3	57.1	74.4	74.6	80.4	83.0	87.2	88.0	89.5	89.5	89.5	89.5	89.5	89.5	89.5
900	37.1	50.3	57.1	75.2	80.6	81.4	85.1	88.0	89.5	90.9	90.9	90.9	90.9	90.9	90.9	90.9
800	39.1	50.3	57.4	77.2	80.5	83.3	86.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
700	22.4	50.3	57.4	77.2	83.0	84.0	87.0	91.7	92.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0
600	27.3	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.3	96.3	96.3	96.3	96.3	96.3	96.3
500	27.1	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.0	97.1	97.1	97.1	97.1	97.1	97.1
400	27.1	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.0	97.1	97.1	97.1	97.1	97.1	97.1
300	27.1	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.0	97.1	97.1	97.1	97.1	97.1	97.1
200	27.1	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.0	97.1	97.1	97.1	97.1	97.1	97.1
100	27.1	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.0	97.1	97.1	97.1	97.1	97.1	97.1
0	27.1	50.3	57.4	77.3	83.0	84.0	87.9	91.9	93.7	96.0	97.1	97.1	97.1	97.1	97.1	97.1

TOTAL NUMBER OF OBSERVATIONS 115

CEILING VERSUS VISIBILITY

1 405 JULIA AAF DL

73-51

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12-6-1774

CEILING FEET	VISIBILITY STATUTE MILES															
	1/2	3/8	2/8	2/4	2/3	2/2	2/1	2	2 1/2	3	4	5	6	7	8	10
100	17.7	15.7	17.9	18.6	19.9	20.7	27.6	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.4	21.4
150	17.7	15.4	19.6	23.3	25.1	25.5	26.5	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.4	27.4
200	17.2	13.6	19.7	23.6	25.5	25.9	26.8	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.8	27.8
250	15.4	13.9	21.1	24.8	25.9	26.3	27.2	28.2	28.7	28.7	28.7	28.7	28.7	28.7	28.9	28.9
300	15.3	19.3	21.5	24.4	26.3	26.6	27.6	28.3	28.7	28.7	28.7	28.7	28.7	28.7	28.9	28.9
350	15.7	20.6	21.6	25.7	27.8	28.1	29.1	29.3	29.9	29.9	29.9	29.9	29.9	29.9	30.2	30.2
400	17.1	20.8	27.7	25.9	28.1	28.5	29.5	30.2	30.7	30.7	30.7	30.7	30.7	30.7	30.9	30.9
450	19.2	24.2	29.1	30.2	32.6	33.0	34.3	35.5	35.6	35.6	35.6	35.6	35.6	35.6	35.8	35.8
500	18.9	24.0	25.1	30.2	32.6	33.1	34.3	35.5	35.6	35.6	35.6	35.6	35.6	35.6	35.8	35.8
550	18.9	24.4	25.1	30.2	32.6	33.0	34.3	35.5	35.6	35.6	35.6	35.6	35.6	35.6	35.8	35.8
600	17.3	24.4	25.5	30.8	33.7	33.6	34.9	36.0	36.2	36.2	36.2	36.2	36.2	36.2	36.4	36.4
650	13.1	27.2	28.9	34.9	37.3	37.7	39.4	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.9	40.9
700	17.7	31.4	32.8	39.4	41.3	42.2	44.1	45.6	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2
750	17.1	36.4	38.8	46.2	49.3	49.9	52.7	54.0	54.4	55.1	55.1	55.1	55.1	55.1	55.2	55.2
800	31.5	38.8	47.7	51.2	53.7	54.2	56.5	58.9	59.7	61.1	61.7	61.7	61.7	61.7	61.7	61.7
850	34.2	41.7	45.8	57.4	60.6	61.2	64.2	66.6	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
900	31.5	42.2	48.7	58.3	61.7	61.7	64.9	67.5	67.9	68.7	68.7	68.7	68.7	68.7	68.7	68.7
950	35.3	44.5	48.7	63.4	67.2	67.2	71.7	74.7	75.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5
1000	17.1	46.2	51.6	71.7	75.4	76.5	81.1	84.4	84.8	86.3	86.7	86.7	86.7	86.7	86.7	86.7
1050	17.1	46.2	51.6	73.2	76.9	77.5	83.1	86.7	87.1	88.5	88.5	88.5	88.5	88.5	88.5	88.5
1100	17.1	46.2	51.6	73.9	78.6	81.3	85.2	89.3	89.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
1150	17.1	45.2	51.6	74.5	79.4	81.1	86.3	91.7	91.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
1200	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	92.5	94.8	94.2	95.3	95.5	95.4	95.4	95.4
1250	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	92.7	96.8	96.8	97.1	97.1	97.1	97.1	97.1
1300	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	92.9	96.8	96.8	97.2	97.2	97.2	97.2	97.2
1350	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	93.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1400	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	93.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1450	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	93.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1500	17.1	45.2	51.6	74.7	79.5	82.0	87.4	92.1	93.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS 77

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E PSYCHROMETRIC SUMMARIES

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

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

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

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

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

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

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

Continued on Reverse

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

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

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

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2), sums of values (ΣX), 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.

CENTRAL CLIMATOLOGY BRANCH
OPERATIONS
METEOROLOGICAL SERVICE /MAL

PSYCHROMETRIC SUMMARY

STATION NAME: ALBUQUERQUE STATION NAME: ALBUQUERQUE YEARS: 1961
MONTH: JAN
DAYS: 31 HOURS: 24

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

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	
Dry Bulb	535.9	119.7	38.3	0.226	50							53
Wet Bulb	527.4	101.8	32.9	0.534	67		4	57.3				53
Dew Point	534.5	107.7	33.1	0.678	60							93

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

FEDERAL BUREAU OF SURVEY
 NATIONAL METEOROLOGICAL SERVICE
 WEATHER SERVICE

PSYCHROMETRIC SUMMARY

STATION: [Blank] STATION NAME: [Blank] YEARS: [Blank] MONTH: [Blank]
 DATE: [Blank] HOURS: [Blank]

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

Element (X)	Σ x'	Σ x	R	s _r	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F		≤ 93 F
Rel. Hum.	4317.2	4667.7	85.5	6.735	546							
Dry Bulb	6671.3	1069.7	34.6	7.278	546		36.6					33
Wet Bulb	6124.1	177.8	32.7	6.752	546		42.0					23
Dew Point	5263.5	165.1	32.3	7.240	546		56.2					53

USAFETAC FORM 0 26-5 (O.L.A.) REVISIO WITHOUT EDICIONS OF THIS FORM ARE OBSOLETE

FEDERAL BUREAU OF SURVEY
 METEOROLOGICAL SERVICE
 WEATHER SERVICE 7440

PSYCHROMETRIC SUMMARY

STATION: 1 NAME: FAIRBANKS, AK STATION NAME: FAIRBANKS, AK YEARS: 1961-62 MONTH: 1-12
 HOURS: 24

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																																TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
10																																						
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Element (X)	Σx^2	Σx	\bar{x}	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.	4713634	17.25	91.0	7.537	556							6.4
Dry Bulb	552624	10.62	29.9	6.973	556							6.4
Wet Bulb	477283	15.81	29.4	7.860	556							6.4

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

PSYCHROMETRIC SUMMARY

STATION: PERLA AAF STATION NAME: 73-81 YEARS: 55
 MONTH: August HOURS: 24

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	± 31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point													
67																		1	1																
68																		1	1																
69																		1	1																
70																		1	1																
71																		1	1																
72																		1	1																
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98																		1	1																
99																		1	1																
100																		1	1																
TOTAL																		647	647																

Element (X)	Z _X ¹	Z _X	X	%	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	
Dry Bulb	10211.6	57.43	89.4	9.704	647							64
Wet Bulb	7152.4	28.43	30.7	7.315	647		45.3					64
Dew Point	5375.2	18.92	29.4	6.725	647		55.6					64

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

PSYCHROMETRIC SUMMARY

STATION NO. _____ STATION NAME _____ YEARS _____ MONTH _____ HOURS _____

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
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USAFETAC
FORM 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
NA 65

PSYCHROMETRIC SUMMARY

STATION NAME: _____
 STATION NUMBER: _____

STATION: _____ STATION NAME: _____ YEARS: _____ MONTH: _____
 HOURS: _____

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
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TOTAL	1.4	1.6	2.2	2.9	4.2	1.5	1.6	3.3	2.5	6.1	4.2	3.3	2.8	2.2																							

Element (X)	Σx'	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	2277.4	197.8	67.4	7.2	633			7.4	4			7
Wet Bulb	2253.1	179.8	43.9	6.5	633			9				7
Dew Point	2659.2	233.8	36.4	6.5	633		26.7					9

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

ARMY AIR FORCE
 AIR FORCE
 AIR FORCE

PSYCHROMETRIC SUMMARY

STATION: 148 148 STATION NAME: 148 YEARS: 1950-1951 MONTH: 12
 STATION: 148 STATION NAME: 148 YEARS: 1950-1951 MONTH: 12
 STATION: 148 STATION NAME: 148 YEARS: 1950-1951 MONTH: 12

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
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Element (X)	Σx^2	Σx	\bar{x}	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.	1435005	27117	6.04	7.763	53							
Dry Bulb	1435005	27117	51.2	9.569	53							
Wet Bulb	1435005	27117	44.2	6.553	53							
Dew Point	728265	10717	36.4	6.739	53							

USAFEIAC FORM 34-54 0-26-5 (OL AI) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL BUREAU OF SURVEY
 UNITED STATES DEPARTMENT OF COMMERCE
 NATIONAL WEATHER SERVICE/MAO

PSYCHROMETRIC SUMMARY

STATION: 1000NS 60006 AAF STATION NAME: 71-21 YEARS: 1951

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
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Std Dev																																						
Element (X)	ΣX^2	ΣX		\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total																										
Rel. Hum.	42177.5	52.45		6.81	11.25	634	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total																									
Dry Bulb	105550.1	37.09		47.61	6.69	634																																
Wet Bulb	107424.4	27.77		44.77	6.15	634																																
Dew Point	15224.9	26.73		42.15	5.76	634																																

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

100-40 QUIMATOLBY TRANCH
 100-40
 100-40

PSYCHROMETRIC SUMMARY

STATION: 100-40 AAF 40 STATION NAME: 100-40 YEARS: 1950-1950 MONTH: MAY HOURS: 715

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	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		
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USAFETAC FORM 0-26.5 (OLA) 10-54 REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma x'$	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	3427122	43146	67.316	1.3	715							
Dry Bulb	2210122	39771	55.6	5.139	715			7.4	1.3			
Wet Bulb	176659	252.5	49.2	6.177	715			1				
Dew Point	1395599	311.7	43.6	7.229	715		6.1					

CLIMATE CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 AIR STATION IDENTIFICATION

PSYCHROMETRIC SUMMARY

1945 FLOWER AFB AL STATION NAME
 STATION
 1-1-51 YEARS
 MAY MONTH
 1945-1945
 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point	
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Element (X)	Z ₁	Z ₂	R	n	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2514751	38141	59.117	0.17	647							
Dry Bulb	1713245	72953	51.7	6.177	647							
Wet Bulb	1255376	26189	43.9	6.874	647							
Dew Point							5.6					53

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

USAF METEOROLOGICAL SERVICE
 AIR FORCE AIRCRAFT ENGINEERING CENTER
 HANDBOOK OF METEOROLOGY

PSYCHROMETRIC SUMMARY

STATION NO. 12345 STATION NAME

1961

YEARS

MONTH

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31																			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1				

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature				Total		
						0 F	32 F	67 F	73 F	80 F	93 F	
Rel. Hum.	1756.5	71.4	57.7	0.643	124							
Dry Bulb	155.8	75.9	6.1	0.371	124							
Wet Bulb	145.7	77.1	6.2	0.41	124							
Dew Point	1695.7	73.9	5.9	6.537	124							

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

PSYCHROMETRIC SUMMARY

UNITED STATES AIR FORCE
 14-00000

STATION NAME: [REDACTED] STATION NAME: [REDACTED] YEARS: [REDACTED]

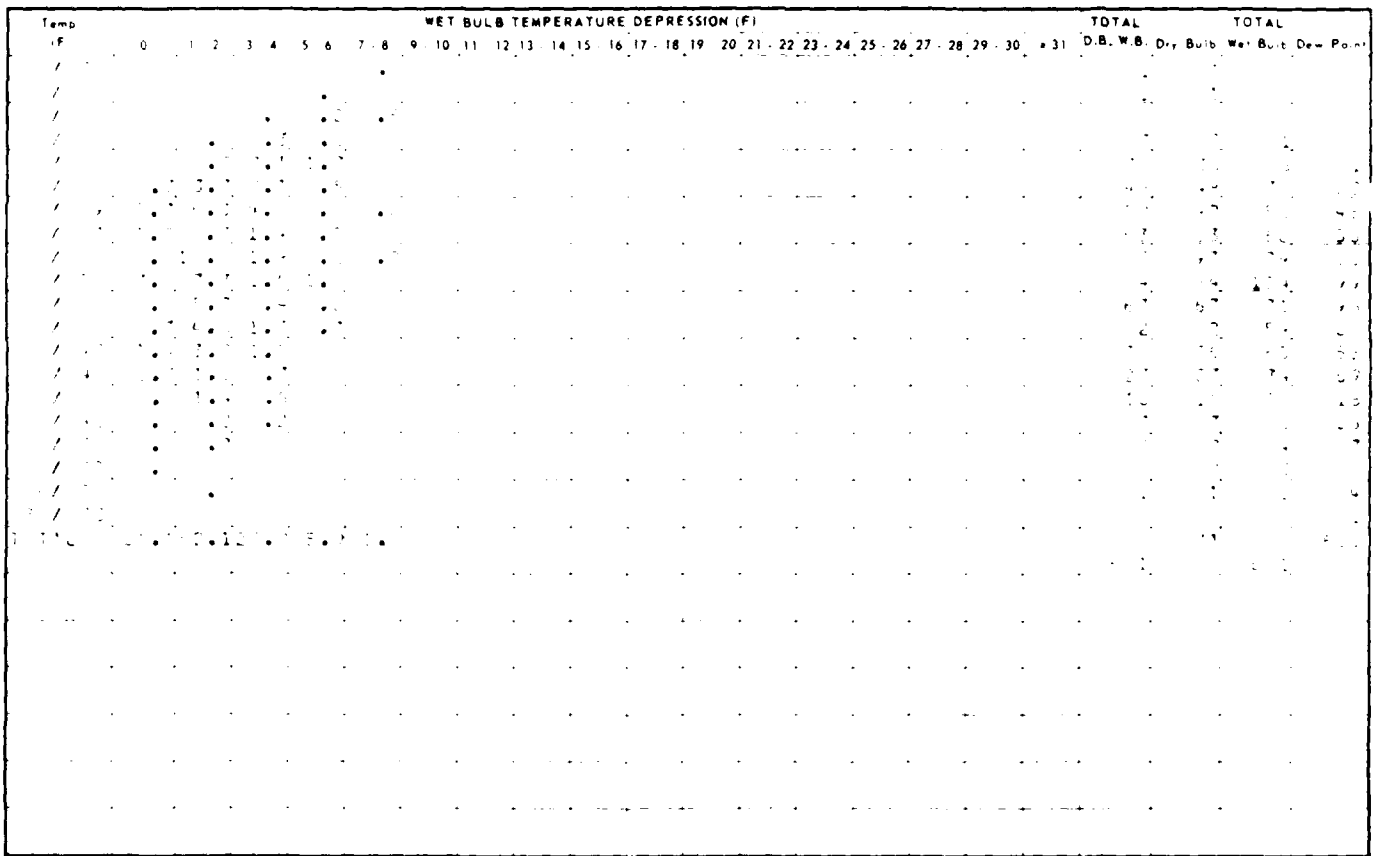
Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. - W.B.	Wet Bulb	De-Point			
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Element (X)	$\sum X'$	$\sum X$	\bar{X}	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.	2211742	29412	61.216	46	645							
Dry Bulb	229245	43144	66.9	8.24	645			2.4	24.4	5.2		72
Wet Bulb	2215123	37646	58.4	4.825	645			2.5	.1			73
Dew Point	17244.4	3353	52.7	5.461	645							73

USAFETAC FORM 0-26-5 (DLA) REVISED WITHOUT NOTICE OF THE NATIONAL BUREAU OF METEOROLOGY

PSYCHROMETRIC SUMMARY

STATION: STATION NAME YEARS MONTH HOURS



Element (X)	ΣX^2	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Num.						0 F	32 F	67 F	73 F	80 F	93 F	
Dry Bulb	716	716	69.7	6.71	10							40
Wet Bulb	734	734	67.1	6.54	10							40
Dew Point	349	349	59.5	6.74	10							40

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

ANNUAL CLIMATOLOGICAL DATA
 STATION NO. 73-31
 STATION NAME

PSYCHROMETRIC SUMMARY

STATION NO. 73-31 STATION NAME YEARS MONTH HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. - W.B.	Dry Bulb	Wet Bulb	Dew Point		
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Element (X)	$\sum x^2$	$\sum x$	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature					Total	
						0 F	32 F	67 F	73 F	80 F	93 F	
Rel. Hum	407244	4055	61.516777		65							
Dry Bulb	64684	4055	62.476923		65			42.5	31.0	4.4		
Wet Bulb	35374	4055	62.345769		65			6.0				
Dew Point	368579	4055	62.536923		65		4					

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

PSYCHROMETRIC SUMMARY

U.S. AIR FORCE CLIMATE DATA CENTER
 1775 AVENUE OF THE STARS
 WASHINGTON, D.C. 20330

STATION NO. 47 STATION NAME
 STATION NAME

72-01

YEARS

PER MONTH

1957-1958
 MONTHS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
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TOTAL	1.4	4.1	7.3	11.1	17.6	24.9	31.7	38.1	44.2	50.0	55.4	60.3	64.8	68.9	72.6	75.9	78.7	81.0	82.8	84.1	84.9	85.2	85.0	84.4	83.4	81.9	80.0	77.7	75.0	71.9	68.4	64.5	60.2	55.5	50.5	45.2		

Element (X)	Z _g	Z _x	K	g _a	No. Obs	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum	1.0	1.0	1.0	1.0	53	0	0	0	0	0	0	53
Dry Bulb	1.0	1.0	1.0	1.0	53	0	0	0	0	0	0	53
Wet Bulb	1.0	1.0	1.0	1.0	53	0	0	0	0	0	0	53
Dew Point	1.0	1.0	1.0	1.0	53	0	0	0	0	0	0	53

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

PSYCHROMETRIC SUMMARY

U.S. AIR FORCE
 AIR FORCE ENGINEERING CENTER
 WRIGHT-PATTERSON AIR FORCE BASE
 DAYTON, OHIO 45433-6151

1. STATION: WRIGHT-PATTERSON AIR FORCE BASE STATION NAME: WRIGHT-PATTERSON AIR FORCE BASE
 YEARS: 1961 MONTH: 1961
 HOURS: 1961

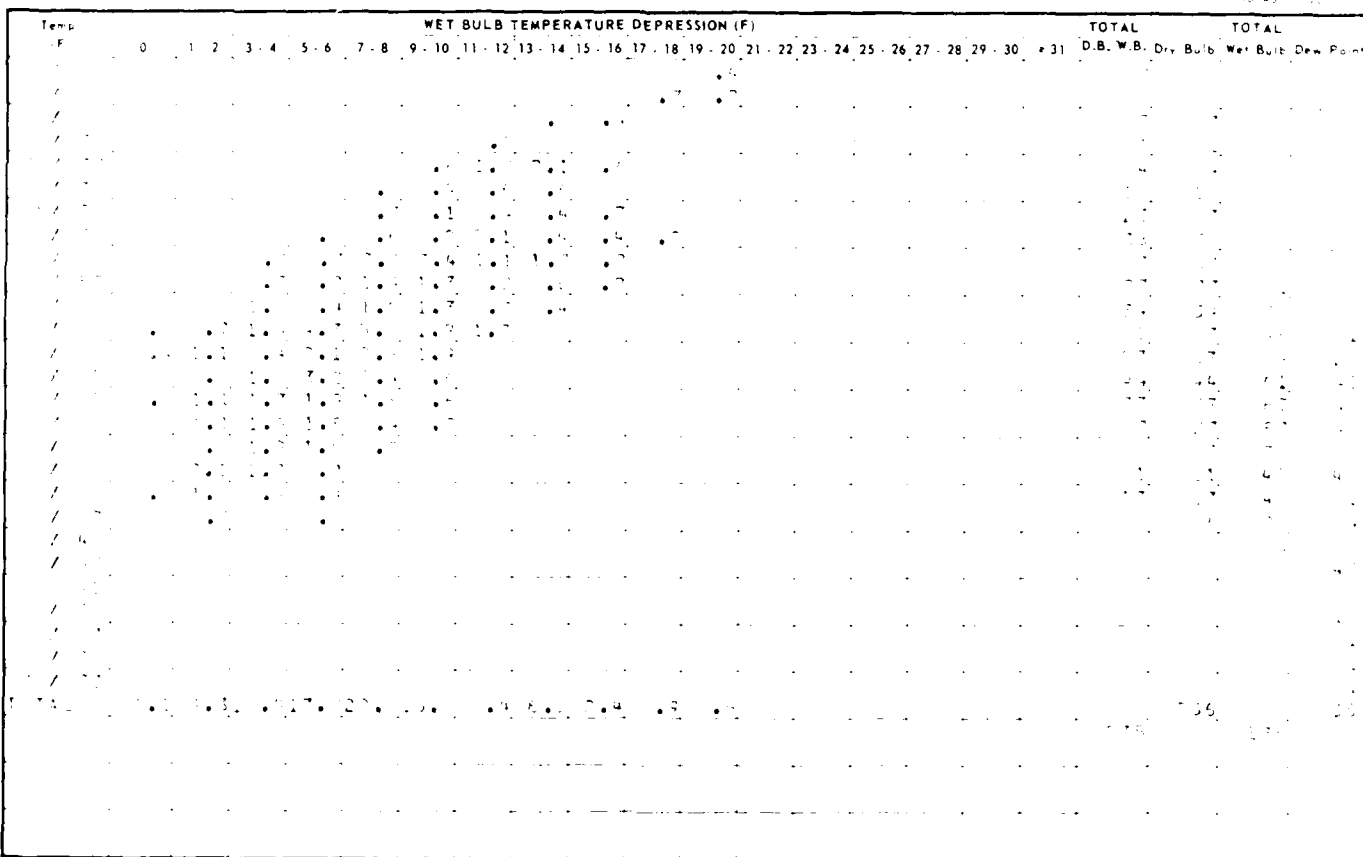
Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
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Element (X)	ΣX^2	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4.500000	3.001	3.001	0.670	544	0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb	140.000000	79.53	79.53	6.781	584							
Wet Bulb	140.000000	40.4	40.4	5.854	584							
Dew Point	140.000000	23.85	23.85	5.726	584							

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

PSYCHROMETRIC SUMMARY

STATION NO. 44 STATION NAME YEARS MONTH

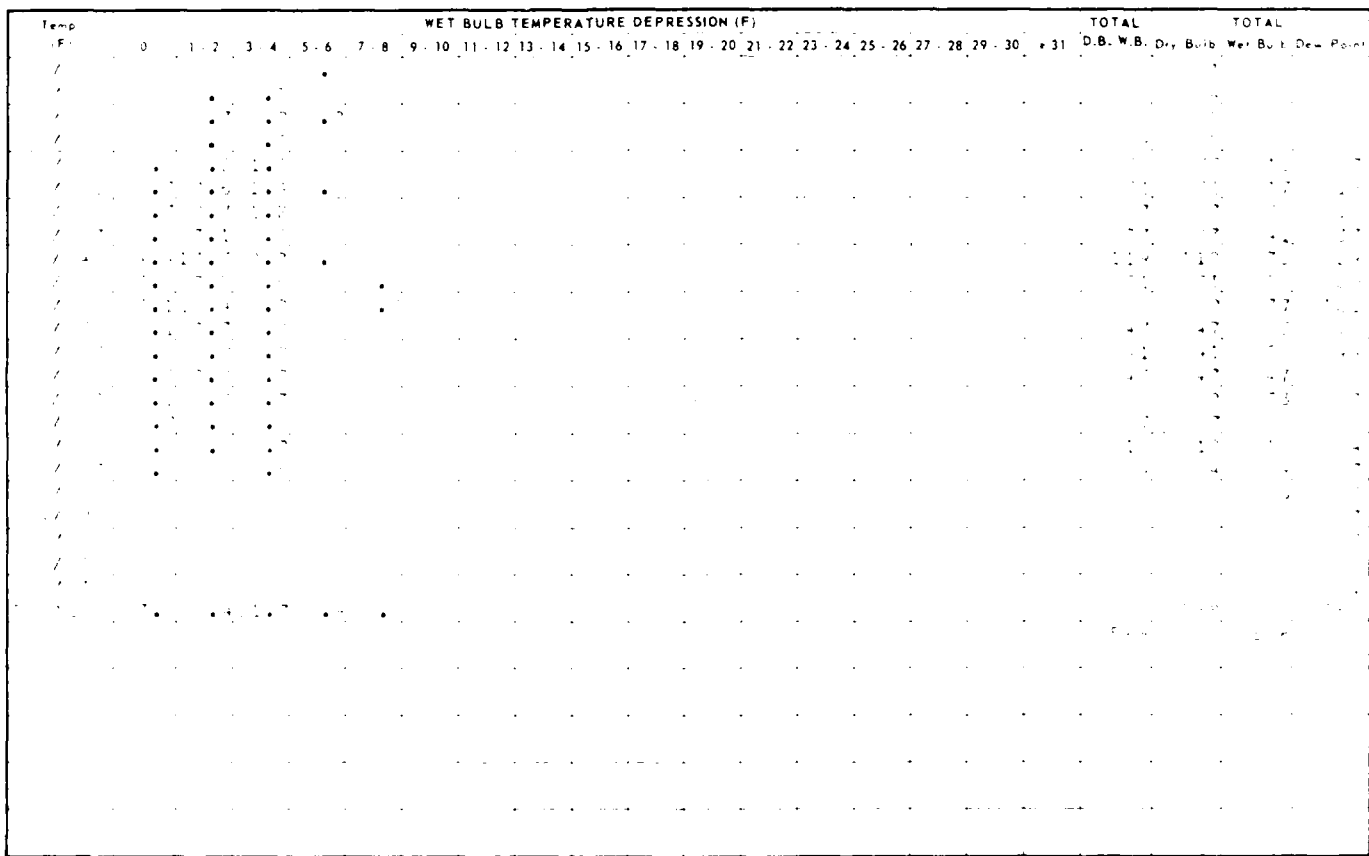


Element (X)	$\Sigma x'$	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum	14.8	7.4	0.6	0.4	13	+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	Total
Dry Bulb	24.8	12.4	0.4	0.7	13				12.7			
Wet Bulb	14.8	7.4	0.6	0.4	13							
Dew Point	14.8	7.4	0.6	0.4	13							

USAFETAC FORM 0 26-5 (OL A) REVISED PREVIOUS EDITIONS BY NAAS IN THE AIRCRAFT

PSYCHROMETRIC SUMMARY

STATION: STATION NAME: YEARS: MONTHS: HOURS: DAYS: MINUTES



Element	Σ x'	Σ x ²	Σ x	Σ x ²	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel Hum	11	121	11	121	11	0	1	1	1	1	1	1
Dry Bulb	11	121	11	121	11	0	1	1	1	1	1	1
Wet Bulb	11	121	11	121	11	0	1	1	1	1	1	1
Dew Point	11	121	11	121	11	0	1	1	1	1	1	1

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

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

UNIT

4000

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
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Element	X	Z _g	Z _x	X̄	s _x	No. Obs	Mean No. of Hours with Temperature				Total	
Re. Hum	10	20	30	40	50	60	0 F	10 F	20 F	30 F	40 F	
Dry Bulb	10	20	30	40	50	60						
Wet Bulb	10	20	30	40	50	60						
Dew Point	10	20	30	40	50	60						

USAF/ETAC FORM 0-20 1-52 (REV. 10-60)

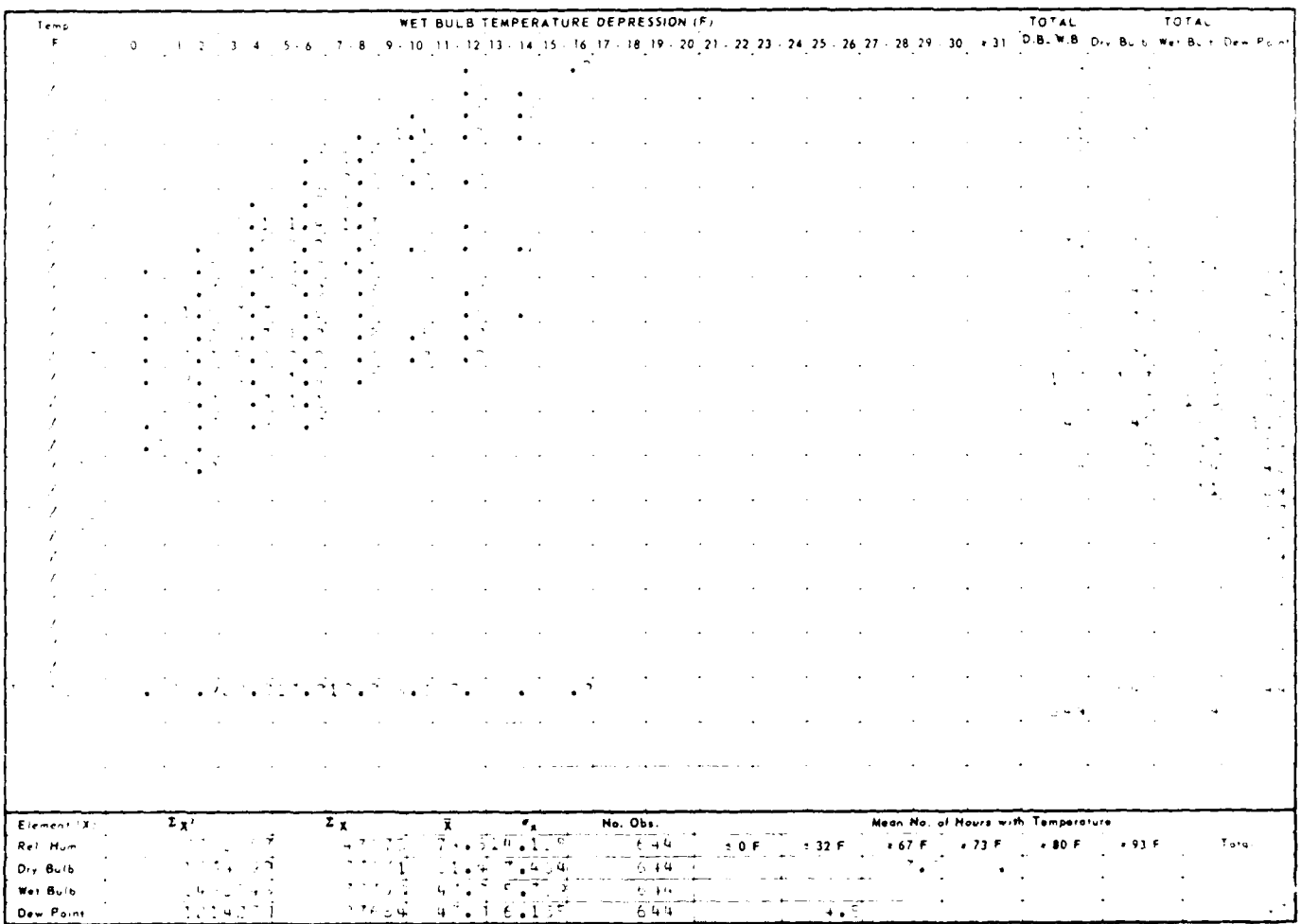
PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

MONTH



USAFETAC Form 84 0 26 5 (O. A.) REPRODUCED BY AUTHORITY OF THE SECRETARY OF THE AIR FORCE

PSYCHROMETRIC SUMMARY

STATION: STATION NAME: YEARS: UNIT:
HOURS: _____

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B. Dry Bulb	Wet Bulb	Dew Point	
10																																				
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Element	X	Zx	Zx	X	%	No. Obs.	Mean No. of Hours with Temperature						Total
Rel Hum	10	11	12	13	14	15	0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb	11	12	13	14	15	16							
Wet Bulb	12	13	14	15	16	17							
Dew Point	13	14	15	16	17	18							

USAFETAC FORM 0 265 (GLA) PREPARED BY THE WET BULB TEMPERATURE DEPRESSION UNIT

PSYCHROMETRIC SUMMARY

STATION NAME
 STATION NUMBER

YEARS
 MONTH
 DATE
 HOURS

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			
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Element (X)	Σx^2	Σx	R	σ	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	244.75	264.5	35.5	5.171	55		27					
Dry Bulb	480.7	196.9	37.5	7.074	55		27					
Wet Bulb	351.7	186.9	34.5	7.454	55		39					
Dew Point												

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

LOCAL CLIMATE BUREAU BRANCH
 STATION NO. 10011 ZMAC

PSYCHROMETRIC SUMMARY

STATION: STATION NAME: YEARS: HOURS:

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point									
70																																													
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Element (X)	ΣX^2	ΣX																														\bar{X}					No. Obs.	Mean No. of Hours with Temperature					Total		
Rel. Hum.	364	354.5																														36.7					642	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total	
Dry Bulb	373	361.9																														36.7					649								
Wet Bulb	373	362.1																														36.7					649								
Dew Point	4266	3236.1																														34.5					645								

USAFETAC FORM NO. 64 0-26 J (OL A) REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
METEOROLOGICAL WEATHER SERVICE/MAAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEGREE F FROM HOURLY OBSERVATIONS

1945 - 1981

73-81

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	31.7	37.5	48.7	58.3	67.6	74.4	76.2	74.9	68.3	43.1	31.5	22.3	48.1
STANDARD DEVIATION	4.55	7.389	7.331	6.154	6.692	5.380	4.789	5.454	6.281	6.267	7.494	8.768	11.867
MEAN	39.7	45.6	52.5	61.7	63.4	62.4	62.7	63.1	59.4	56.6	50.0	44.3	57.9
STANDARD DEVIATION	3.85	4.262	3.949	4.447	5.511	61.2	62.7	63.3	56.9	46.5	36.7	33.6	47.4
MEAN	42.2	46.2	44.5	49.7	59.3	65.2	66.9	66.4	62.7	51.4	41.1	35.6	51.4
STANDARD DEVIATION	4.20	7.315	7.22	7.417	6.139	7.704	6.974	6.753	6.687	6.711	7.441	6.771	13.244
MEAN	30.0	36.2	44.5	49.7	59.3	65.2	66.9	66.4	62.7	51.4	41.1	35.6	51.4
STANDARD DEVIATION	7.071	6.742	6.57	9.209	9.039	8.955	8.204	7.657	7.509	7.464	7.235	7.640	14.782
MEAN	34.0	37.5	43.5	51.2	52.5	56.7	60.9	70.2	64.7	51.6	41.2	35.1	52.4
STANDARD DEVIATION	6.475	6.475	6.333	9.569	9.670	9.073	8.656	7.957	7.851	7.949	7.207	7.474	11.347
MEAN	34.6	37.4	43.1	51.7	52.9	57.6	63.2	68.2	67.6	55.3	42.9	37.2	54.8
STANDARD DEVIATION	6.46	6.475	6.333	9.569	9.670	9.073	8.656	7.957	7.851	7.949	7.207	7.474	11.347
MEAN	32.2	34.0	41.6	45.8	55.4	61.7	63.5	64.0	56.5	48.1	39.6	34.0	46.5
STANDARD DEVIATION	6.701	7.530	8.588	9.512	9.745	9.234	8.658	9.143	8.774	7.912	7.495	8.779	14.441
TOTAL OBS	2461	2323	2629	2479	2531	2420	2521	2565	2374	2468	2210	2313	22429



USAFETAC 1981 (OLA)

2
1

CLIMATE CLIMATOLOGY BRANCH
AFAC
OPERATING SERVICE/NAAC

MEANS AND STANDARD DEVIATIONS

NET-GLOB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1 440 FLOOR AAF 01

73-81

YEARS

	AN	FEB	MAR	APP	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN A
MEAN	29.1	29.9	35.4	38.5	44.2	51.9	53.7	53.0	49.4	41.9	35.1	31.5	31.1
STDEV	5.771	6.973	6.977	5.743	6.165	5.465	4.331	5.105	5.364	5.959	7.203	8.329	7.491
TOTAL OBS	597	556	624	617	634	624	627	631	594	588	450	543	7174
MEAN	29.3	31.2	37.8	40.6	49.2	55.4	57.2	57.7	53.3	44.2	36.9	32.6	34.1
STDEV	6.684	6.784	6.571	5.895	6.177	5.792	4.785	4.599	5.569	5.899	6.839	8.251	11.139
TOTAL OBS	582	547	724	699	712	696	717	702	647	593	645	626	8184
MEAN	32.1	34.2	40.6	43.5	51.2	56.8	58.4	59.8	56.2	47.2	38.6	34.	36.2
STDEV	7.235	6.745	6.722	6.542	6.178	5.632	4.875	4.577	5.571	5.729	6.455	7.159	11.639
TOTAL OBS	630	596	676	632	643	621	645	652	627	644	622	617	7581
MEAN	31.7	33.0	41.0	44.2	51.9	57.5	57.2	56.4	56.8	47.4	38.9	33.6	36.7
STDEV	6.783	6.159	7.051	6.553	6.091	5.579	4.548	4.524	5.537	5.852	6.251	6.823	11.189
TOTAL OBS	648	514	551	531	532	538	522	582	535	552	509	512	6481
MEAN													
STDEV													
TOTAL OBS													
MEAN													
STDEV													
TOTAL OBS													
MEAN	31.1	32.5	38.7	41.2	49.2	55.3	57.0	57.7	53.8	45.2	37.6	32.9	34.5
STDEV	6.135	6.576	7.179	6.850	6.703	6.062	5.055	5.505	6.331	6.265	6.799	7.571	11.681
TOTAL OBS	2461	2333	2629	2479	2531	2489	2521	2545	2373	2466	2329	2316	2426

UNITED STATES AIR FORCE
 14-00000
 1. WEATHER SERVICE ZMAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1. NAME: FULTA AAF 06

73-31

	AN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	28.2	29.4	30.8	34.7	43.1	49.6	51.8	51.5	48.1	40.8	34.2	27.5	37.5
STANDARD DEVIATION	1.068	1.003	1.031	0.910	0.767	0.920	0.755	0.574	0.900	0.340	0.554	0.998	1.109
MEAN	25.7	29.4	34.9	34.7	43.6	50.7	52.5	53.8	50.3	41.7	34.5	31.7	41.7
STANDARD DEVIATION	0.873	0.795	0.830	0.830	0.829	0.879	0.822	0.912	0.811	0.434	0.458	0.425	1.131
MEAN	29.9	31.1	33.9	38.4	43.8	50.4	52.0	50.6	51.0	43.0	35.4	31.4	41.2
STANDARD DEVIATION	0.884	0.916	0.854	0.801	0.874	0.803	0.481	0.692	0.545	0.135	0.515	0.754	1.074
MEAN	31.0	31.5	33.0	36.4	44.1	50.4	52.0	50.4	51.2	43.0	35.9	31.2	41.4
STANDARD DEVIATION	0.840	0.408	0.834	0.789	0.637	0.142	0.437	0.957	0.997	0.253	0.366	0.105	1.051
MEAN	28.9	31.1	35.1	35.7	43.4	50.3	52.1	53.1	50.1	42.1	35.0	31.4	41.7
STANDARD DEVIATION	0.121	0.476	0.330	0.673	0.659	0.124	0.255	0.544	0.355	0.368	0.398	0.101	1.043
MEAN	24.6	23.0	26.9	24.7	26.3	24.9	25.1	25.5	23.7	24.6	22.9	23.1	24.2

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

RELATIVE HUMIDITY

1445 FULTON AFB AL
STATION

77-8

JAN

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	1-02											
	1-03											
	1-05	100.0	100.0	100.0	100.0	100.0	100.0	99.7	91.3	81.3	91.2	597
	1-11	100.0	100.0	100.0	100.0	100.0	99.9	97.5	86.7	53.8	89.8	687
	1-14	100.0	100.0	100.0	100.0	100.0	95.9	93.2	75.6	39.3	95.7	170
	1-17	100.0	100.0	100.0	100.0	100.0	99.5	92.5	74.7	37.7	95.8	146
	1-23											
TOTALS		100.0	100.0	100.0	100.0	100.0	99.6	95.6	81.9	45.6	98.1	1461

FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE
WASHINGTON, D.C. 20535

RELATIVE HUMIDITY

DATE: JULY 1961

73-91

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS EST.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF DAYS
		10	20	30	40	50	60	70	80	90		
7-1	100.0											
7-2	100.0											
7-5	100.0	100.0	100.0	100.0	99.9	99.8	99.1	93.0	66.9	91.6	156	
7-11	100.0	100.0	100.0	100.0	100.0	99.8	96.7	86.2	54.3	89.4	147	
7-14	100.0	100.0	99.5	99.5	97.8	94.1	83.4	65.9	37.9	82.9	136	
7-17	100.0	99.5	99.4	93.1	96.2	92.1	76.4	61.1	25.4	87.4	124	
7-20												
7-23												
TOTALS	100.0	100.0	99.5	99.4	92.5	96.5	88.9	76.4	45.1	86.1	2373	

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1. METEOROLOGICAL BRANCH
2. STATISTICAL SERVICE/MAO

RELATIVE HUMIDITY

495 WILDA AAF DL
STATION

73-81

APP
MONTH

STATION NAME

PERIOD

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

MONTH	HOURS (LT)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS	
		10	20	30	40	50	60	70	80			90
APP	1-2											
	3-7											
	8-12	100.0	100.0	100.0	99.8	99.0	97.4	90.4	71.5	34.4	54.9	517
	13-17	100.0	100.0	99.9	97.9	91.7	79.4	56.8	36.2	17.2	73.3	699
	18-22	100.0	100.0	97.6	88.2	73.8	53.2	32.7	18.3	5.2	62.8	673
	23-27	100.0	100.0	96.6	82.5	66.4	47.0	30.8	16.8	3.0	67.0	530
	28-31											
	TOTALS	100.0	100.0	98.5	92.1	82.6	69.3	52.7	35.7	14.0	70.3	2479

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CENTRAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAO

RELATIVE HUMIDITY

0445 KULDAAAF DL
STATION

73-81
PERIOD

MAY
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10	20	30	40	50	60	70	80	90		
MAY	03-02											
	03-05											
	06-08	100.0	100.0	100.0	99.8	99.5	95.1	83.4	58.7	25.7	81.8	634
	09-11	100.0	99.9	99.3	94.8	83.8	63.6	46.7	23.1	7.1	67.3	715
	12-14	100.0	100.0	98.0	84.9	63.3	44.2	28.8	12.6	4.0	59.1	643
	15-17	100.0	100.0	95.5	79.2	56.8	42.9	29.3	12.6	5.0	57.7	539
	18-20											
	21-23											
TOTALS		100.0	100.0	98.2	89.7	75.9	61.5	47.1	26.8	17.5	66.5	2531

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/MAC

RELATIVE HUMIDITY

17445 FULDA AAF DL
STATION

73-81
PERIOD

JUN
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80	90		
JUN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.8	98.6	91.7	66.2	29.5	84.2	674
	09-11	100.0	100.0	99.6	97.7	92.7	73.1	52.9	20.8	5.7	59.7	698
	12-14	100.0	100.0	98.1	91.1	73.5	46.6	28.5	11.1	3.0	50.8	671
	15-17	100.0	99.4	95.2	87.0	65.8	41.1	25.3	10.0	1.7	58.3	538
	18-20											
	21-23											
	24-26											
	27-29											
	30-31											
	TOTALS	100.0	99.9	98.2	94.0	83.0	64.9	49.4	27.0	10.0	68.3	2488

GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1445 FOLEDA AAF DL
 STATION

73-81
 PERIOD

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	0-0											
	3-05											
	06-08	100.0	100.0	100.0	100.0	99.5	97.4	93.3	67.8	32.9	84.9	627
	09-11	100.0	99.7	98.7	97.5	92.6	76.2	55.6	27.8	7.0	71.2	717
	14-14	100.0	99.1	96.9	91.7	74.9	48.2	30.1	12.2	2.6	61.2	645
	16-17	100.0	97.7	95.7	92.7	64.7	41.4	23.7	10.7	2.1	57.7	572
	18-20											
	21-23											
	TOTALS	100.0	99.1	97.8	92.8	82.9	66.3	50.7	29.6	11.2	68.8	3521

6
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11

CENTRAL CLIMATOLOGY BRANCH
WAF TAC
WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1 445 FULDA AAF DL
STATION

73-81

ALL

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%		
1-10	1-30										
	03-05										
	06-08	100.0	100.0	100.0	100.0	100.0	100.0	95.7	79.9	44.2	64.1
	09-11	100.0	100.0	99.6	98.9	92.3	79.3	63.1	31.7	12.6	70.1
	12-14	100.0	99.7	96.2	89.7	74.2	53.2	31.7	13.3	4.4	65.1
	15-17	100.0	99.1	93.8	80.9	66.7	43.3	24.4	8.9	2.6	58.1
	18-20										
	21-23										
TOTALS		100.0	99.7	97.4	92.4	83.3	69.0	53.7	33.3	17.0	2565

RELATIVE HUMIDITY

1 449 BOLDA AAF DL

77-81

OFF

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		
OFF	03-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	98.1	68.4	58.4	77.8	284
	09-11	100.0	100.0	100.0	100.0	98.8	92.4	79.9	46.1	19.2	79.4	647
	12-14	100.0	100.0	100.0	99.4	88.7	68.2	41.7	17.5	5.8	67.1	87
	16-17	100.0	100.0	100.0	95.5	82.6	59.8	35.9	15.0	5.8	64.8	670
	18-20											
	21-23											
TOTALS		100.0	100.0	100.0	98.5	92.2	79.3	63.9	41.7	22.3	75.5	2377

1
2
3

1. FACILITY: METEOROLOGICAL STATION
2. LOCATION: ...
3. ...

RELATIVE HUMIDITY

4. STATION: ... 5. PERIOD: 77-81 6. MONTH: OCT

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%		
OCT	01-01											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.5	99.3	96.9	87.4	67.9	91.0	525
	09-11	100.0	99.9	99.7	99.4	98.4	96.6	88.3	65.4	35.7	84.4	587
	12-14	100.0	100.0	99.5	98.1	95.2	83.5	65.1	36.7	13.7	74.5	644
	16-17	100.0	99.5	98.9	98.0	93.9	87.3	62.0	36.5	11.4	73.6	553
	19-23											
TOTALS		100.0	99.9	99.5	98.9	96.8	89.9	78.1	56.3	37.4	80.9	2465

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1 445 FOLDA AAF DL
STATION

73-81
PERIOD

NOV
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
NOV	00-02											
	3-05											
	6-08	100.0	100.0	100.0	100.0	100.0	99.8	96.0	85.5	44.4	88.1	157
	9-11	100.0	100.0	100.0	100.0	99.5	96.8	92.7	75.7	35.5	84.5	647
	12-14	100.0	100.0	100.0	100.0	98.7	95.3	85.7	55.6	16.9	81.6	600
	15-17	100.0	100.0	100.0	100.0	100.0	95.9	86.6	67.7	19.1	81.8	500
	18-20											
	21-23											
	24-26											
	27-29											
	30-NOV											
	TOTALS	100.0	100.0	100.0	100.0	99.6	97.0	90.1	69.2	29.0	84.1	2309

2
 CENTRAL CLIMATOLOGY BRANCH
 SECTION
 AIR WEATHER SERVICE / MAC

RELATIVE HUMIDITY

1945 JULIA AAF CL

77-81

DFO

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			
DFO	10-02												
	03-05												
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	99.4	91.0	59.4	92.8	547	
	09-11	100.0	100.0	100.0	100.0	100.0	100.0	98.1	87.1	48.9	89.2	600	
	12-14	100.0	100.0	100.0	100.0	99.8	97.4	92.9	74.7	35.0	85.6	617	
	15-17	100.0	100.0	100.0	100.0	99.8	98.7	92.9	77.8	36.5	86.1	530	
	18-20												
	21-23												
TOTALS		100.0	100.0	100.0	100.0	99.9	99.0	95.9	82.7	44.7	87.9	2317	

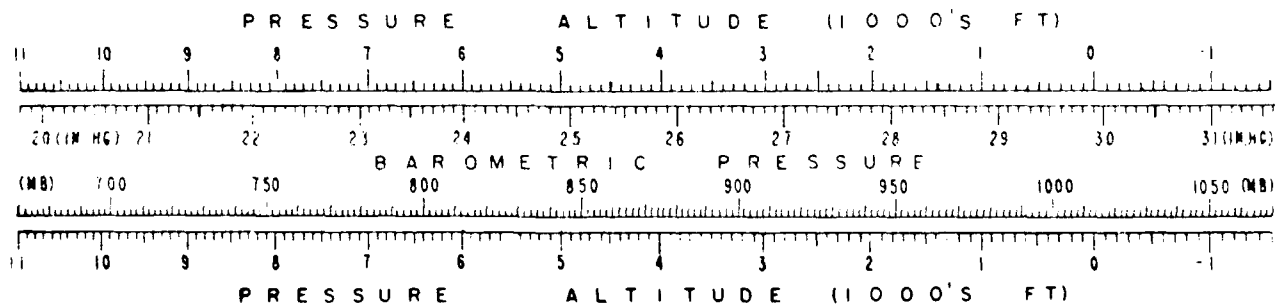
PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars. DATA NOT AVAILABLE

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



U.S. AIR FORCE METEOROLOGICAL BRANCH
METEOROLOGICAL SERVICE CENTER

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

STATION NAME: ...

71-81

1951

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN. A
MEAN	29.9278	29.8778	29.86378	29.89378	29.91878	29.95678	29.93128	29.98628	29.99178	29.97028	29.94628	29.9278	29.9278
STDEV	.127	.1363	.170	.211	.276	.167	.152	.156	.198	.278	.338	.338	.260
STAN OBS	167	171	199	202	200	216	202	207	191	163	172	166	1207
MEAN	29.92078	29.98778	29.88278	29.89478	29.91578	29.95678	29.94078	29.99429	29.9228	29.94128	29.97728	29.9278	29.9278
STDEV	.131	.160	.174	.214	.205	.169	.151	.156	.194	.278	.329	.328	.263
STAN OBS	129	216	241	231	235	232	237	233	214	206	217	206	2718
MEAN	29.9278	29.88728	29.8628	29.8628	29.90678	29.94978	29.93528	29.93278	29.94078	29.9228	29.97728	29.9478	29.9278
STDEV	.131	.159	.152	.178	.202	.162	.147	.152	.193	.277	.327	.328	.263
STAN OBS	201	213	237	214	217	218	221	201	208	228	214	217	2626
MEAN	29.89378	29.87578	29.84628	29.8328	29.88728	29.93378	29.91378	29.97328	29.9678	29.91278	29.95128	29.9278	29.9278
STDEV	.116	.130	.164	.215	.191	.153	.146	.147	.197	.273	.322	.328	.258
STAN OBS	159	158	196	183	189	188	186	196	181	183	189	178	2199
MEAN	29.9128	29.83728	29.85928	29.89228	29.90578	29.95178	29.93028	29.98728	29.98578	29.9728	29.95078	29.9278	29.9278
STDEV	.1324	.1358	.164	.211	.202	.163	.149	.153	.190	.275	.301	.328	.261
STAN OBS	423	768	668	870	850	841	846	857	791	800	872	762	2632

USAFETAC (CLA)

END
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6-83