NASA CONTRACTOR REPORT

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SURFACE CLIMATOLOGICAL INFORMATION TWENTY SELECTED STATIONS FOR SPACE SHUTTLE STUDIES

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Environmental Data Service
National Oceanic and Atmospheric Administration
Asheville, North Carolina 28801

March 18, 1971



Prepared for

NASA-GEORGE C. MARSHALL SPACE FLIGHT CENTER Marshall Space Flight Center, Alabama 35812

....NOTICE....

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16. Abstract			
summaries for twenty United States precedes the tabular summaries. Me sented on one page. The monthly as shown. A few ceiling/visibility coincluded in the specified weather. This report was prepared to put the NASA Space Shuttle operational	ion areas. This short study presents locations - two of which are in Alasonthly and annual temperature-precipind annual summaries of specified wear ombinations from near minimum to good conditions. The last summaries are virovide background information for use and abort landing requirements relais. The minimum runway length for each	ska. A short nar itation summaries ther conditions a d landing conditi wind rose tabulat e in tradeoff stutive to atmospher	rative are pre- re also ons are ions. dies on ic condi-
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PREFACE

These climatologies, prepared in support of the Space Shuttle Program, are directed primarily towards "flying weather" descriptors. The locations were selected from a list of candidate launch, landing, and alternate landing sites. This does not imply that these locations are being considered by the NASA as Space Shuttle launch sites. An earlier publication, NASA CR-61319, entitled, "Surface Climatological Information for Twelve Selected Stations for Re-Entry Vehicles," gave similar data for:

Edwards AFB, California
Langley AFB, Virginia
Patrick AFB, Florida
Moron, Argentina
Moron De LaFrontera, Spain
Ambala, India
Dhahran, Saudi Arabia
Bloemfontein, South Africa
Reggan, Algeria
Alice Springs, Australia
Honolulu, Hawaii.

While only a few ceiling/visibility combinations from near minimum to good landing conditions are listed, almost any combination from zero ceiling/zero visibility to 20,000 ft ceiling/10 mi visibility is available upon request to Aerospace Environment Division, Aero-Astrodynamics Laboratory, Marshall Space Flight Center, Alabama 35812.

S. Clark Brown Aerospace Environment Division Aero-Astrodynamics Laboratory NASA-Marshall Space Flight Center

I. Foreword

This study is a continuation of NASA CR-61319 February 1970. Twenty additional sites were selected for this second study. The only figure included is a map showing the station locations. These locations are:

Alaska - Eielson A.F.B., Fairbanks; Elmendorf A.F.B.,
Anchorage

California - Castle A.F.B., Merced; Vandenberg A.F.B.,
Santa Maria

Florida - McCoy A.F.B., Orlando

Mississippi - Columbus A.F.B., Columbus

Missouri - Whiteman A.F.B., Knob Noster

North Carolina - Cherry Point M.C.A.S., Havelock; Seymour-Johnson
A.F.B., Goldsboro

New Mexico - Holloman A.F.B., Alamogordo

New Jersey - McGuire A.F.B., Wrightstown

South Carolina - Shaw A.F.B., Sumter

South Dakota - Ellsworth A.F.B., Rapid City

Texas - Bergstrom A.F.B., Austin; Biggs A.F.B., El Paso;

Carswell A.F.B., Ft. Worth; Dyess A.F.B., Abilene;

Ellington A.F.B., Houston; Kelly A.F.B., San Antonio

Sheppard A.F.B., Wichita Falls

II. Data

A. Source

The data used for this study have been obtained from the archives of the National Climatic Center at Asheville, N. C.

B. Format

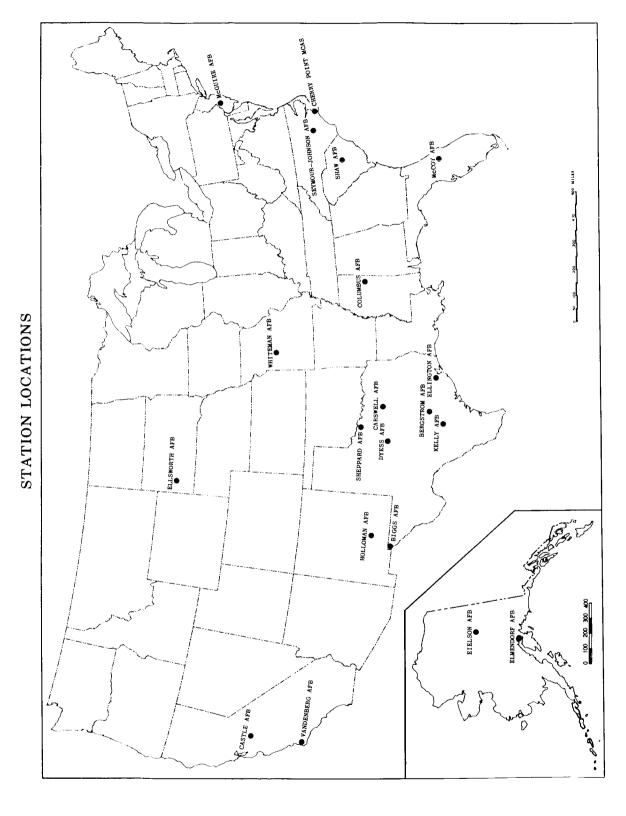
The information presented are those of:

- 1. Narrative summary
- 2. Temperature, precipitation, and wind tabulation
- 3. Tables of selected present weather categories
- 4. Wind rose tabulations

C. Presentation

- 1. A short narrative description of the climatology precedes the tabular summaries. The period of record is included in the narrative.
- 2. Temperatures are given in degrees Fahrenheit, precipitation in inches.
- 3. In the percentage frequencies of occurrence of specified weather conditions, the following elements are summarized where data were available:
 - a. Number of observations
 - b. Ceilings less than 200 feet and/or visibilities less than $\frac{1}{2}$ statute mile
 - c. Ceilings less than 2,000 feet and/or visibilities less than 3 statute miles
 - d. Ceilings less than 4,000 feet and/or visibilities less than 6 statute miles
 - e. Total cloud cover equal to or less than 3/10
 - f. Thunder, with or without precipitation
 - g. Rain and/or drizzle
 - h. Freezing rain and/or freezing drizzle

- i. Snow and/or sleet
- j. Hail
- k. Total occurrences of precipitation
- 1. Fog
- m. Smoke and/or haze
- n. Blowing snow
- o. Dust (blowing and/or suspended)
- p. Total occurrences of obstructions to vision.
- 4. In the wind presentations, wind directions to sixteen points of the compass and calm are shown arrayed against the selected categories of wind speeds. Marginal distributions by wind direction and by wind speed categories are included.



EIELSON AFB FAIRBANKS, ALASKA (Lat. 64°41'N, Long. 147°05'W, Elev. 558 ft.)

Eielson AFB is located on the extreme edge of the Tanana Valley of Interior Alaska, which is open and slopes downward to the west. The foothills of the mountains are 15 miles to the east of the airfield, Fairbanks is 16 miles northwest and the Tanana river four miles southwest. This area is characterized by mixed vegetation of forest, brush, scrub and tundra; permanently frozen subsoil; and large rivers - the Yukon, Tanana and Kuskokwim. Landforms include wide, discontinuous plains along the main streams as well as hills, plateaus and mountains of low to moderate elevations.

This valley has a continental climate since it is well sheltered from maritime influences. Winter lasts from September through May and summer from June through August, with spring and fall being periods of rapid transition.

In winter, arctic or very cold continental dry air masses predominate with a great number of clear days. Temperatures generally average about -10° F to -20° F, interrupted normally by short periods of either relatively warm or extremely cold spells. During all seasons, westerly through southwesterly air flow will cause extensive precipitation and cloudiness. When winter cloudiness occurs it is characteristically the low stratus type. Flying beneath the low clouds, at altitudes of 1,000 to 2,000 feet, occasionally may be hazardous due to poor visibility associated with snow showers. Amounts of cloudiness are low particularly during the period February through April. The best flying conditions are

EIELSON AFB (Cont'd.)

during March and April when the restrictions due to fog and low clouds are at a minimum.

Ice fog will become a restricting factor with near calm conditions and temperatures below -20° F. It is quite persistent in December,

January and February. Rime ice is always a possibility in this area when temperatures are below freezing.

In the summer, flying is best during the early morning hours before the on-set of convective activity whicy may produce showers and thundershowers with cumulonimbus clouds extending to 25,000 - 30,000 feet.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from November 1944-May 1945 and October 1946-October 1968; with the exception of cloud cover for which data are not available prior to 1946.

EIELSON AFB FAIRBANKS, ALASKA

Temperature, Precipitation, and Wind (Peak Gust) Summary

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Mean	-11.3	-11.3 -4.6 8.5 28.2 46.3 57.9 60.3 55.6 44.5 24.4	8.5	28.2	146.3	57.9	60.3	55.6	44.5	4.42	2.1	2.1 -11.5	25.0
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SSE 142
Wind Direction Velocity

Maximum and/or Minimum Anemometer Height: 100 feet 04/53; 12 feet 03/54

EIELSON AFB, FAIRBANKS, ALASKA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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EIELSON AFB, FAIRBANKS, ALASKA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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	Tolkha Anivolf) faud (behinged) Tolkhaminged teafor	1.3	5.5	1.9	6 c	9. 0	9 0.	9	8,	9	in/bms galvoff) send (bebmaged) in bepmagend	3.4 8.9	3.6 10.7	4.0 8.7	h.2 7.2	3.4 4.8	2.7 4.3	2.4 5.2	3.3 6.6	3,4 6.9
a a	To the Anivolation of the Control of the Anivolation of the Control of the Contro	1.3 1.3	2.5 2.5	1.9	6 c e.	9. 0 3.	8 6. 8.	9' 9'	8 8.	0,	VonS getvote nobne getvotel send (bebneque So sepperatuos) desch		-	!	:			5	1	!
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	motablished of freelphish of free for including and the motable same of the motable same of the motable of the	1 1.3	2.5 2.	3.9	6 6. i	0 5. /	0. 8.	9.		0. 0. 0. 2.1	Superior and the state of the s	1 5.7 3.4	7 7.3 3.6	4.9 4.0	j.o h.2	5 1.h 3.h	6 1.6 2.7	3 1.7 2.5	5.4 3.3	3.6 3.4
	to securization of freeing in security contraction of the contraction	8.1 1.3	2.5 2.	3.9	6 6. i	0 5. /	0. 8.	9.		0. 0. 0. 5.1 6.8	To severation, Tead, to contract to the contra	16.1 5.7 3.4	7 7.3 3.6	4.9 4.0	j.o h.2	5 1.h 3.h	6 1.6 2.7	3 1.7 2.5	5.4 3.3	14.7 3.6 3.4
MAY	Mail Total Decurrences of Precipitation Total Geourences Saoke and/or Mare Blowing and/or Miles Grow Total Geourences of	2 8.1 1.3	2.5 2.9	10.9 3.9	e 6 6. 6.2	.1 9.7 .50	9., 8. 9., o.	6.9	8. C.7	0, 0, 0, 2,1 6,8 0, 2	Their Courtes we or their Courtes of the contract of the contr	16.1 5.7 3.4	7 7.3 3.6	4.9 4.0	j.o h.2	5 1.h 3.h	6 1.6 2.7	3 1.7 2.5	5.4 3.3	14.7 3.6 3.4
1	mining Smines of the control of the	2 8.1 1.3	2.5 2.9	3.6 10.9 3.9	e 6 6. 6.2	.1 9.7 .50	9., 8. 9., o.	6.9	8. C.7	0, 0, 0, 5,1 6,8 0, 5,5	ATRI DOMINION TRACE AND ANTAL (BILANTIN ANTAL A	16.1 5.7 3.4	7 7.3 3.6	4.9 4.0	j.o h.2	5 1.h 3.h	6 1.6 2.7	3 1.7 2.5	5.4 3.3	14.7 3.6 3.4
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MAY	Three (With or With or	.0 6.3 5.2 8.1 1.3	23.8 7.3 2.9 9.9 2.5 2.	23.8 7.6 3.6 10.9 3.9	21.8 6.6 2.7 5.9	.1 7.7 2.3 .1 9.7 .50	7.9 8. 9.2 .0 9.2 7.9	5,9 1.0 6,9 6.1 6,5	.0 6.7 1.3 3.	0. 0. 1.0 8.9 1.2 .0 .0 .0	Centings 40000 Pt and/or State 1970; The State	.3 16.1 16.1 5.7 3.4	20.9 14.5 .1 17.7 17.7 3.6	22.4 17.1 16.0 16.0 16.0 +) 4.0	25.3 17.1 ,1 13.6 ,0 15.8 3.0 lu.2	24.5 12.7 1.5 12.5 12.5 1.4 3.4	1.3 13.6 13.6 1.6 2.7	.8 13.3 13.5 1.7 2.5 8.	.1 14.8 14.9 3.4 3.3	,5 1h.7 0 1b.7 3.6 3.4
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To Tay	Musicilities 77 MV Musicilities 64 MV Musici	3.1 9.6 27.7 .0 6.3 6.2 8.1 1.3	11.7 23.8 7.3 2.9 9.9 2.5 2.	6.1 13.4 23.8 7.6 3.6 10.9 3.9	14.8 21.8 6.6 2.7 3.7 3	13.8 15.9 .1 7.7 2.3 .1 9.7 .50	7.41 5.21 1.5 .0 9.2 .8 .0 1.41 5.21	2 8.0 18.0 5.7 1.0 6.9 .6	8.2 23.9 .0 6.7 1.3 3.	11.5 21.3 .0 7.0 2.2 .0 8.9 1.2 .0 .0 .0	Due (Binwish and/or State) The (Binwish and/or State) The State of t	.0 17,4 16,4 .3 16,1 16,1 5.7 3,4	20.9 14.5 .1 17.7 17.7 3.6	14.1 22.4 17.1 16.0 16.0 16.0 4.9 4.0	11.8 25.3 17.1 .1 13.60 15.5 5.0 4.2	24.5 12.7 1.5 12.5 12.5 1.4 3.4	17.8 11.9 1.3 13.6 13.6 1.6 2.7	12.3 15.8 .8 13.3 13.1 13.5 1.7 2.5	14,0 16,2 ,1 14,8 14,9 3.4 3.3	19.4 15.3 .5 14.70 14.7 3.6 3.4
To the state of th	Washittee 100 Wishittee and/or Wishittee 100	3.1 9.6 27.7 .0 6.3 6.2 8.1 1.3	.2 4,8 11.7 23.8 7.3 2.9 9.9 2.5 8.	.1 6.1 13.0 23.8 7.6 3.6 10.9 1.9	.1 6.0 14.8 21.8 6.6 8.7 8.9 9	4.0 13.8 15.9 .1 7.7 2.3 .1 9.7 .59	2.6 (2.5 14.7 7.9 1.5 .0 9.2 .8 .0	2.2 8.0 18.0 5.9 1.0 6.9 .6	8.2 23.9 .0 6.7 1.3 3.	.1 4.1 11.5 21.3 .0 7.0 2.2 .0 8.9 1.2 .0 .0 .0	Washingtoney Sillings Allow Ceilings Allow Ceilings Allow Ceilings Allow Washinites Allow Ceilings Allow	6 8.0 17,4 16.4 .3 16,1 16.1 5.7 3.4	1.0 11.8 20.9 10.5 .1 17.7 17.7 1.3 3.8	. 1 14,1 22,4 17,1 16,0 16,0 16,0 4,7 4,0	.1 11,6 25,1 17,1 .1 13,60 13,5 3.0 4,2	7.1 24.5 12.7 1.5 12.5 12.5 1.4 3.4	5.0 17.8 11.9 1.3 13.6 13.6 1.6 2.7	12.3 15.8 .8 13.3 13.5 1.7 2.5	5.9 14.0 16.2 .1 14.8 14.9 3.4 3.3	6,4 19,4 15,3 ,5 14,70 15,7 3.6 3.4
To the state of th	Manage and the and the and the angle of the	2 2.133 3.1 9.6 27.7 .0 6.3 8.2 8.1 1.3	S 2. 4.8 11.7 23.8 7.3 2.9 2.5 2.5	2,139 .1 6.1 13.4 23.8 7.6 3.6 10.9 1.9	.1 6.0 14.8 21.8 6.6 8.7 8.9 9	4.0 13.8 15.9 .1 7.7 2.3 .1 9.7 .59	2.6 (2.5 14.7 7.9 1.5 .0 9.2 .8 .0	2.2 8.0 18.0 5.7 1.0 6.9 .6	3.2 8.2 23.9 .0 6.7 1.3 1	4.1 11.5 21.3 .0 7.0 2.2 .0 8.9 1.2 .0 .0 .0	The sailtings along the sail of the sail o	P 1,953 ,6 8.0 17.4 16.4 ,3 16.1 16.1 5.7 3.4	1.0 11.8 20.9 10.5 .1 17.7 17.7 1.3 3.8	2,046 14 14,1 22.14 17.1 16.0 16.0 1.51 4.2 4.14 14,1 22.04	2,046 .1 11,8 25,3 17,1 .1 13.60 13.7 3.0 4.2	2,046 7.1 24.5 12.7 1.5 12.5 12.7 1.4 3.4	.2 5.0 17.8 11.9 1.3 13.6 13.6 1.6 2.7 13.6	4,0 12.3 15.8 .8 13.3 13.5 1.7 2.5	.2 5.9 14,0 16.2 .1 14.8 14.9 3.4 3.3	.3 6.4 19.4 15.3 .5 14.7 14.7 3.6 3.4

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

EIELSON AFB, FAIRBANKS, ALASKA

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to visi	8.3	10.4	9.11	6.6	6.0	6.2	7.4	1.8	6.5		Total Occurrences of Obstructions to Vision	17.3	17.7	19.3	21.5	21.0	21.9	20.5	18.8	19.6			
	Dust (Blowing and/or Suspended)	1	7.	0.	1	;	;	į	;	o.		Suspended)		-	:	:	:	:	;	-	1			ime.
	wond gaiwold	4	٥.	ci.	-:	٠.	o.	;		7		wons antwold		ů,	· :	4.		9.	٠.	ë.	-÷.			the t
	sand to\bus swoms	6	÷	٠.,	₫.	r:	۲.	7.	-7.			Smoke and/or Haze	ė.	'n.	۲.	è.	r -	0.1	æ	٠.	÷		ercent	ent of
	90.g	7.7	3.1	11.3	5.5	5.7	0.9	0.7	.dr	0.5		90 <u>4</u>	16.9	17.0	17.8	21.0	9.02	62.5	9.61	16.1	19.0		indicates that the condition has occurred less than 0.05 percent	of the time, but more than 0.00 percent of the time. indicates that the condition has occurred exactly 0.00 percent of the time.
	Total Occurrences of Totaliqipart	23.5	53	20.6	3.5	S 81	न दे	2.5	:: ::	63		Total Occurrences of Precipitation	25.7	 88	55.6	23.1	€.	55.3	55.1	25.6	25.2		than	percent of the time. occurred exactly 0.0
	Heil		1	;	;	ł	į	i	ì	i		Tion		1	1	į	į	-	į	i	1		ed les	t of th
æ	forfil to hims word	8.48	28.1	37.6	25.2	18.2	16.7	9.61	83	8	<u>α</u>	Bnow and/or Sleet	25.3	8.5	25.5	25.8	24.0	25.3	33.7	35.4	25.0		occur	ercen
остовы	Freezing Bains and/or Freezing Bains	¢4	ιή	r)	7.	Q	12	7.	ď.	cá	S W B E B	no/hus nieg Buixeer? Freezing Buixeer?	ú	1	ų	e,	çi	7:	ļ	r:	ú		has	has o
OC.	elssiril ro\bna mtaH	0.0	1.7	1.3	1.7	io ei	r -	0	1.5		0.80	alzziyi volbna miski	7:	i	1	o.	7:	;	1	1	o.		dition	than
tu sil	Thunder (With or With Precipitation)		1	;	1	1	;	1	1	}	,	Thunder (With or Without Precipitation)		1	į	i	į	1	i	1	1		e con	the time, but more than 0.00 dicates that the condition has
	Cloud Cover ±3/10	28.8	5.5	16.4	23.4	25.0	36.5	23.3	26.0	1.12		Cloud Cover 13/10	37.4	37.5	6.3	0.98	21.2	25.6	32.4	36.5	31.5		hat th	, but nat th
40/F	Cellings . botto Pt and Visitilities . b Mi	35.3	37.2	65	35.2	8	٦. ٥	32.6	37.5	36	١	ro/bos #7 0004> sanilish iM 4> saittilidis!V	33.6	35.3	37	35.7	F. 6.	39.3	6.98	6.48	35.7		ates tl	time tes tl
40/F	Ceilings <7000 Ft and Visibilities <3 Mi	6.08	23.4	25.5	22.8	18.6	17.2	19.4	19.3	9.5	د	Cellings <2000 Ft and/or Visibilities <3 M	19.9	8.3	6.08	24.5	22.9	24.3	23.3	22.3	23.2		indica	of the indica
1 0/	bus JT 000 - swalltab W 3/1> solfilldisiV	1.0	1.6	2.5	1.1	-7.	15	.7.	1.3	1:1		Ceilings -700 Ft and/or Wislbilities <1/2 Mf	2.0 1	1.9	2.9	5.5 2	5.0 2	3.1.	3.3	5.6	3.2		0.0	i
20	Number of Observation	640,	940,5	2,138	2,139	2,138	2,139	2,107	2,546	16,802		Mumber of Observations	540,	740,	2,139	2,139	2,139	2,139	2,108	2,045				
		,5 50-											~	c)							19,901			
	smojj i	8	C3-05	90-90	11-60	7.5-17	15-17	78-20	23-43	AL: Hours		smoji	33-36	33-63	90-90	09-11	25-21	15-17	19-30	27-53	All Ecurs			
uo	Total Occurrence :	6.7	9.01	11.5	6.8	ы ы	±.	3.4	Ç	:		1. secondariable Intoff modely of anoldowniado	10.1	10.1	7.	10.5	ښ ت	4.6	6.9	3.5	3.5		T securings) moisty or sacitom	latoT ritad0
	Dust (Blowing and/or Suspended)		1	}	7.	ιġ	-	}	,	:		to/bas gaiwo(H) taud (bataojand		į	1	1	ł		1	1	1		Tollang quivoff) (beba	cadeng pres
	won8 aniwold		1	i	}	1	1	-				Acidy Shipsort		}	ų	o.		τ.	٠.	ņ	ú		იისც მს	Blowin
	exalt re/bus extend	1.3	9:1	1.2	3.1	9.	9	æ.	-	•		эгон до/рим ымому	∹,	₹.	c,	٦.	ú	ŗ.	ņ	ij.	ņ		ezaH To\bas	Зможе
	90.4	5.4	4.6	10.7	5.6	5.5	65	9.6	4	4		Wog	10.1	10.1	3.1	16.2	5.	3.2	5.7	3.5	5.3			304
	ic amonamusoC laioT notiatiqisarq	36.5	27.1	16.3	25.6	32.6	1.7	15.1	-			To assorting letter for a first	24.6	5.7	8	37.6	21.3	e E	5:13	0.6	8.		 anecestance anidation 	
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3ER	feets maybas word	9. 89.	4.	e,	3.5	ř.	r.	۲- ۲-	0	3	G G	Snow auditor Steet	-7. 18.	23.5	8	2.3	еэ (3)	30.6	23.7	5:5	5.	<u>.</u>	pagg do/pin	v Aous
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SEP	Main and/or Unicale	13.5	13.1	14.8	12.6	9:51	11.9	11.6	2	*	Ž	Alssimil holding aled	οā	Ŋ	ų	۲.	٠:	۲:	ņ	eş.	έå.	4	efszirű rokba	и піяя
guenj	Distriction (Nith to Ministry)		;	;	1	;	1	1				Thomas (With an Without President)		;	1	1	1	-	1	1	:		ruoniiw ac diiw) q (uciiwii	Jj oazaj apungj
	Cloud Cover 13/10	39.1	ei Si	13.5	15.1	0.5	18.2	9.5	a c			Cloud Cover 23/10	37.1	37.7	38.5	24.1	25.4	57.5	34.e	35.5	31.e		el/85 annob	pnot.;
30/E	im 4- 2-04- sgalited iM 4- s-ifilitidisiV	16.8	25.0	25.8	23.7	6.15	15.6	15.5	8	?		Cellings - 2000 Pt and 'or Wisbillities on Mi	4.68	7.62	3.75	a): [2]	34.6	28.6	30.1	8.9	25.5		ks -6000 Ft and∆or 1ftins -t-Mi	mille? idtalV
1:) [im i. səinifidisiy.	9.5	14.8 2	16.5 2	15.6 2	n.: 2	7.4 1	7.7				Cellings - 7000 Ft and Mo-	16.8 2	15.0 2	14.1 2	15.9 2	13.6 2	14.1 2	14.7	16.0 3	25.0		ga - 2000 Fr and Ann 1181 es - 3 M	(4111a) (4118)¥
	Ceilings - 200 Ft and Wisbilities <1/2 Mi	1.3	3.7	2.4 1	.5	7:	;	e,				Octilings - 200 Pt and/or IM CATA settifidialV	2.1	1.7	1.7	1.1	÷	.e	1.2 1	1.5 1	1.3		aolbae 23 000 - 88 IM s/L - 891311	Cellin Cellin
54	noj prazosaju. Jo stad miš	1,890	86	1,980	1,375	366,	- ag.	2,32	90	6674		anolineroschi jo sadmeli	0,350	1,950	5,039	040	345	અં.	2,010	1,95	673		anoj bwarado lo	and much
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EIELSON AFB, FAIRBANKS, ALASKA wind roses

	Year	Breed	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.7			9 2	Byend	PHO O NA PO PHA NO A MA M A O P P NO NA A MA MPO NA A	•
		Total	ರತ್ತಾಣದಲ್ಲಿ ಅವರಿಗೆ ನಿರ್ವಹಣೆಯ ಮಾರ್ಚಿಯ ಮೊದೆಗೆ ಮೊದೆ ಮೊದೆಗೆ ಮಾಡಿಕೆ ಮೊದೆಗೆ ಮ	100.0	13600			Total	ನ್ನು ಕೃತ್ತವೃತ್ತವೃತ್ತವೃತ್ತವೃತ್ತವೃತ್ತವೃತ್ತವೃತ್ತ	16958
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RY			é é	٥.	F		note		o,	٠
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EIELSON AFB, FAIRBANKS, ALASKA WIND ROSES

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EIELSON AFB, FAIRBANKS, ALASKA WIND ROSES

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		Total	ತ್ರಗಳು ಸಂಪರ್ಕಣೆ ಸತ್ತಾರ್ಥನ್ನು ಸ್ಥ ಸಂಪ್ರಸ್ಥೆ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ್ತಿಕ್ಷ ಸ್ಥಿತ್ತ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ್ತಿಕ್ಷ ಪ್ರಸ	0.001	16765		Total	ಪರಸ್ಪರಗಾಗಾರಸಂಕರ್ಗರಿಗೆ ತ	200,0	16800
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		5-0	and a standard and be accompanied to the accompanied and accompanied accompanied and accompanied and accompanied and accompanied and accompanied accompanied and accompanied accompanied and accompanied and accompanied accompani	73.5 16				a	69.3	
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	Mean	Speed	ဝဝနက္ဝင္းရလင္းသင္းသည္။ နက်က်နက်ယ်ယိုနိုက်က်နက်လ်နိုက်ကိ	9.0		3	Speed	ಭರ್ಭತ್ತ ಇಂಡಿಸ್ಪರ್ವಿ ಪ್ರತ್ಯಾತ್ರವಾಗಿ ೧೯೮೩ ಕನ್ನಡ ನಿರ್ದೇಶ ಕರ್ಮನೆ ನಿರ್ವಹಣೆಗೆ	1.6	
		Total	ಗಳು ಕ್ರಾಪ್ತಿಕ್ಕಾಗಿ ಕ್ರತ್ತಿಕ್ಕಾಗಿ ಕ್ರತ್ತಿಕ್	100.0	386		Total	સ્તુલ્, પુત્રમ્થલમ્ વલુલ પુલ વલુ જ્જમાં તેમાં સ્લુપ્ત વસ્તુલ જુલ ૧ વલું	100.0	16019
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		\$6-52			OBSERVAT		18-55			OBSERVAT
		41-47			5 €		F1-14			ARER OF
		34-40			OF CREEKVATIONS		34-40			TOTAL NUMBER OF ORSERVATIONS
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		11-16	ઇન્લાઇલા ન્સ્લાઇ ઇઇન્સ્ ણ ન્	3.1			11-16	Q	1.2	
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		34-40																				months. H
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ANNUAL	Spend in Knots	22-27 28-33	o,	o.	o,	o.	o.	o.	a.	ó	ò	ó	o.	o.	ó	o.					٦.	
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		11-16	7	7	ŗ.	7	7	٩	≠.	ų.	7	9.	ø	≠.	ó	Ņ	٦	ó			6.3	
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		9-3	4	1.0	7.7	9	7:7	۲.	5:7	1.8	3.7	1.3	7.9	7.5	8.0	7.0	1.8	1.7		43.6	68.3	
		Dir.	2	KINE	Ni Z	ENE	24	181	100	888	150	354	AS.	Man	3	Nie.	£	HALF	VARBL	CALM	TOT	

ELMENDORF AFB ANCHORAGE, ALASKA (Lat. 61°15'N, Long. 149°48'W, Elev. 222 ft.)

Elmendorf AFB lies in a broad valley with adjacent narrow bodies of water. Knik Arm is only two miles west, with Cook Inlet and Turnagain Arm 12 miles southwest. The city of Anchorage lies approximately four miles to the southwest. The terrain rises gradually to the east for about ten miles, with marshes interspersed with glacial moraines, shallow depressions, small streams and knolls. Beyond this area, the Chugach Mountains rise abruptly into a range oriented north-northeast, south-southwest, with average elevations of 4,000-5,000 feet and some peaks up to 10,000 feet.

Winter lasts from mid-October to mid-April and summer from June through early September with the spring and fall being periods of rapid transition.

In winter, the most important factor governing the climate of the area is the presence of low pressure systems in the Gulf of Alaska. This results in a strong southerly flow of air off the Gulf into the mountainous coastal regions where it is lifted to produce cloudiness and precipitation. A southwesterly flow will produce short periods of poor weather, while a northerly flow usually results in cloudless days. However, due to the close proximity of the water extensive formations of supercooled fog may occur over Cook Inlet and Knik Arm resulting in low visibilities especially during December and January.

Thundershowers occasionally develop during the warmer months, May through September, however they are seldom as violent as the thunderstorms

ELMENDORF AFB (Cont'd.)

which occur in many of the conterminous 48 states during the same period.

Clear icing conditions do occur in the Anchorage area but it is never as great a problem as is rime ice.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from March 1941-October 1953, and April 1956-October 1968; with the exception of cloud cover for which data are not available prior to 1946.

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Te	Temperature (OF)	nre (°	'F)						
	Jan.		Mar.	Apr.	May	June	Feb. Mar. Apr. May June July Aug.	Aug.	Sep.	Sep. Oct.	Nov.	Dec.	Annual
Maximum	19.6	25.9	31.7	43.7	54.6	62.4	25.9 31.7 43.7 54.6 62.4 65.0 63.4 55.2 41.1 26.8	63.4	55.2	41.1	26.8	19.4	45.4
Mean	12.2		23.0	35.9	46.5	54.9	17.9 23.0 35.9 46.5 54.9 58.2 56.4 48.5 34.8 20.2	56.4	48.5	34.8	20.2	12.7	35.1
Minimum	4.7	9.6	13.9	27.8	38.2	47.3	4.7 9.6 13.9 27.8 38.2 47.3 51.2 49.1 41.5 28.4 13.6 5.8	49.1	41.5	28.4	13.6	5.8	27.6
			æ	ecord	Temper	ature	Record Temperature Extremes	S)					
Maximum	64	58	51	63	8	₹	83	81	47	63	23	53	
Minimum	-36	-43	-24 P	-20 Period	-20 0 33 Period of Record:		34 29 20 1941-1953, 1956-1967	29 953, 19	20 956-19	9-25	8	-34	
MONTHLY MEANS				Preci	Precipitation (Inches)	aI) ac	ches)						
Precipitation	1.21	.89		.62	.65	1.19	.99 .62 .65 1.19 2.16 2.44 2.56 1.58 1.30	2.44	2.56	1.58	1.30	1.40	16.99
Snowfall* 12.0 9.3 8. (*Hail was included in Snowfall Summary prior to January 1956)	12.0 uded in t	12.0 9.3 8.9 5.3 ed in Snowfall Period c January 1956)	8.9 (3)	5.3 eriod	.4 of Reco	o. ord: 1	.9 5.3 .4 .0 .0 .0 .3 7.2 12.9 13.2 Period of Record: Precipitation: 1941-1953, 1956-1967 Snowfall 1946-1953, 1.956-1967	.0 tation	.: 194.1 19461	7.2 -1953, -1953,	.3 7.2 12.9 13.2 1941-1953, 1956-1967 1946-1953, 1956-1967	13.2 1967 1967	69.5

Surface Winds (Knots) - Record Peak Gusts

E	1961-1967
ENE 48	•
⊠ 8j.	1956-1958
E 62	1953,
S 24	1949-1953
SSE 38	.1947,
SSW 34	1946-
SSE SE 49 36	cord:
SSE 49	of Record
田 2	
SSE 47	
NNW 61	
ene 8	
Wind Direction Velocity	

Maximum and/or Minimum Anemometer Height: 80 feet 04/56; 14 feet 02/61.

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	0.6	9.6	13.5	14.5	9.1	1.7	8.0	9.6	10.0	to security of another of the security of short of the security of the securit	3.6	7.7	4.8	6,0	2.4	1.9	2.3	2.1	. .
	Thus (Blowing and/or Suspended)	1	į	į	1	i	ì	i	1	1	Suspended)		1	-	į	:	1	;		1
	Montag Sacw	~	εŇ	ď	o.	4	7.	0.	7	7	Hone Ballwald	:	o.	1	1	;	į	i	į	o.
	sigh To\bns shome.	1.3	1.2	6.5	4.2	5.6	4:	1.7	7	5:5	ezeH To/bne exions	o,	3.0	3.4	o,	ņ	o.	٠.	r .	1.2
	Pog	4.6	8.5	10.2	30.5	4.9	5.3	6.2	7.2	7.7	30%	2.7	6.4	5.1	3.1	63	1.9	1.8	5.0	3.0
	Total Occurrences of Precipitation	9.91	9.91	16.8	17.6	6.9	3.5	9.51	16.3	16.2	Total Occurrences of Frecipitation	9.11	11.7	9.01	0.01	9.5	9.6	1.6	9.6	10.3
	ताम्स	1	1		1		-	1	1		Theft	1	1	1		٥.	į	1	1	ė.
RY	smow and/or Sleet	15.5	15.3	15.0	15.7	4.41	6.11	14.2	15.1	14.6	Snow mud/or Sleet	9.7	6.9	0.9	6.9	5.1	2.0	6.4	6.5	6.7
FEBRUARY	To\pns niss gnizeerf Sizzird gnizeerf	٥	CN.	ç	7	4	:	Ü	Q.	-:	nothine fled Boliveeri's started gaireeri's	1	ιÅ	o,	:	1	ł	0.	o,	é
FEB	elzziwi wo/bom mish	1.5	1.5	1.9	5.0	5.0	1.9	1.8	1.6	9.1	elzzinű no/bne nisé	3.8	3.4	3.0	3.7	£.2	5.5	.a	0.4	0.4
27.	Thunder (With or Micho Precipiosition)	i	1	0.	∹	1	;	:	ì	o.	nodažė no dažė) mabnudė (dužamažąžomie)	1	į	;	1	:	1	1	1	ì
	Cloud Cover 13/10	35.9	34.2	28.5	.96	27.1	2,56.2	8.7	34.5	4.06	Cloud Cover 23/12	35.0	28.7	94.6	25.4	6,52	21.7	23.4	29.18	26.5
10	Ceilings < 4000 ft and/	23.0	24.0	8,45	24.3	18.4	18.2	20.7	21.8	21.9	To\bna FT 0004> sgailleD IM 3> selfilidisIV	14.4	15.3	15.8	13.7	15.1	10.8	12.0	12.8	13.4
10	\bns 75 0003> agnifie0 IM E> selfilidialV	13.4	14.8	15.8	15.4	30.8	9.6	11.0	12.5	12.9	Ceilings <2000 Ft and 'or	9.9	8.0	4.6	4.7	5,4	.a .j	5.1	5.8	6.5
ı	o/pus #4 000 PrailidistV	3.1	3.6	3.6	6.9	1.1	6.	9::	4.5	4.	rolbns #7 7%> sgnizied !W Siz> selfizidieiV	£,	ę.	5.	ŗį	٥į	ķ	ż	-₹.	-≠.
	ancitsvreadO to redmut	2,033	2,033	2,032	2,034	2,031	2,034	2,033	4€0'∂	16,264	enciosevresdo lo redmuñ	2,296	2,298	2,237	2,300	6,239	2,295	2,298	2,298	16,383
	Hours	20-00	03-05	90-90	09-11	15-14	15-17	18-20	21-23	All Hours 10	e-moñ	20-00	03-05	90-90	09-11	15-18	15-17	18-20	23-13	All Hours 1
												_	-	_	-					
	Total Scourrences of Talon Station	14.1	14.4	17.5	1.61		15.0	15.3	15.3	15.7	To secretarios (fato) noisiv of anoideurited0	4.	4.9	11.6	9.3	4.4	3.7	5.4	4	6.0
	Total (Blowing and/or Just)	1	ł	;	;	15.0	;	i	1	ì	to\bns galesing and\ordinates		ì	1	:	ł	į	į	•	į
	Moning Snow	ņ	C.	ά	τ.	ł	7	ċ	₫.	'n	Blowing Snow	0,	ç.	į.	į.	7	Τ.	Ċ.	į	τ.
	sash Tolbins saome	1.3	1.3	5.5	4.3	3.7	3.7	2.1	1.6	2.5	Smoke and/or Here	1.2	1.2	4	2.4	ŗ.	ċ	1.5	1.1	1.6
	3c.4	12.6	13.1	15.4	14.9	11.5	11.6	12.9	13.7	13.2	902	3.4	3.7	7.1	6.9	3.8	3.1	4.0	3.3	4.4
	Total Scourrences of Precipitation	19.3	13.8	18.0	16.5	17.5	17.0	19.1	16.7	18.2	to secontarioso imiof. noitmaiglett	15.6	15.3	13.7	12.5	11.5	11.6	12.3	13.9	13.3
	Ligh	;	;	į	į	}	į	-	o.	ę.	in in	ì	i	;	į	ì	:	;	ł	;
RY	feets modes work	16.8	17.4	15.6	13.8	15.3	14.8	16.9	16.6	15.9	Snow and for Sleet	12.9	12.8	12.3	11.5	10.1	6.6	11.4	12.3	11.7
JANUARY	Freezing Pain and/or Preezing Drizzle	7	1:1	ċ	1.0	æ?	8.	1.1	6.	3.0	MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	.3	÷	÷	7	;	i	į	ç.	4
Ϋ́	SizzitC To\bna night	5.5	2.3	2,2	1.8	1.8	1.7	1.5	1.6	1.9	eizzirU ro∖ene nies	2.1	2.6	1.4	1.1	1.6	8.3	1.8	1.9	1.9
ņ.	Thunder (With or Withon Precipitation)	;	į	1	;	}	į	1	ł	į	suchitim to MaiN) TabmudI Tabundi (noismaidiome	į	***	1	i	1	!	1	1	į
		0	5,	9.	21.2	3	30,6	33.8	35.1	32.0	Cloud Cover ±3/10	41.2	37.9	30.4	4.65	3,4	30.1	32.8	38.7	33.8
	Cloud Cover £3/10	4	~	~							Visibilities 45 ML	25	5							10
10	Shae 37 0004> sanifiso 2M 3> settifidisiV 31/62 savet savet	28.0	26.8	30.2	~	24.5	26.8	89.9	28.8	26.3	Tchbus Ff 0004 sgnilles	18.	19.	19.5	16.8	14.6	14.2	17.9	18.7	17.5
	IM 9> SPINITIQISIA	0	20	19.9 30.2 31		15.2 24.5		19,6 29.9			ro/bms #7 0002> sgmiliad M E> majaithialalV ro/bms #7 0004> sgmiliad m A majaithiad			11.4 19.5	9.7 16.8	7.7 14.6	7.2 14.2	6.9 17.9	9.9 18.7	9.5 17.
10	Vistbilities <3 Mt Ceilings <4000 Pt and/<	0.65	8 28.8	6	28.3		8,	9	8 28.	.5 26.	TR Ex estatististy (action of and first and fi	3 16.	19						6	
ati	Visibilities <1/2 Mi Cellings <2005 r and/o Visibilities <3 Mi Cellings <4000 Ft and/o Visibilities <6 Mi	18.6 29.0	18.8 28.8	5.8 19.9 30.	18.8 28.3	15.2	17.14 26.	19.6	19.8 28.	18.5 26.	Visibiliteles <1/2 Mi Visibiliteles <3 Mi Visibiliteles <3 Mi	10.3 18.	.61 6.01	11.4	7.6	7.7	7.2	6.9	6.6	9.5

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

Percentage Frequencies of Occurrence of Specified Weather Conditions

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anoidevreado to medmuñ	2,336	2,34	2,340	2,333	0,335	2,337	2,336	2,34	18,715	уницерь од преобхитурне	2,418	43	2,412	114.2	2,416	2,415	2,-36	414,5	15,322
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 $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

	To seenerupood istor noisiv of emplication	£.3	5.9	9.0	7.8	3.9	4.2	. 	6.4	5.6		To sent moisiv on	Total Occurren	14.4	13.7	16.0	0.0	18.2	16.8	14.1	13.5	15.8	
	Dust (Blowing and/or Suspended)	;	į	į	;	-	į	1	-	1		ac/pow	Bniwolff) Jaud (bebraqeu2		į	į	;	1	i	}	:	1	
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	ezeji io/pue esposes	ŗ.	ü	2.1	5.1	8.	æ	9.	ŗ.	ė,		32 %	Smeoke and/or:	ڼ	æ.	5.6	5.5	6.4	4:3	2.8	1.7	9.9	
	904	3.4	5.7	6.9	5.1	3.0	3.4	3.7	4.5	9.4			90 ₂	13.5	12.8	13.2	14.9	13.4	12.9	17.4	11.9	13.0	
	Total Occurrences of	16.0	15.9	15.4	13.7	14.9	14.8	0.91	15.7	15.3		je seon	Total Occurres Recipitation	18.3	20.3	19.3	17.6	18.4	18.5	16.7	19.4	18.6	
	Time .		;	į	:	1	į	{	į	į			Type	;	ł	ì	;	į	1	;	į	1	
H.	Snow and/or Sleet	6.8	7.8	2.9	6.2	6.1	5.9	7.2	7.2	6.7	R	:55	S molbae word	16.2	18.0	16.5	15.4	19.1	0.91	14.4	16.3	16.1	
OCTOBER	Freezing Bain and/or Freezing Drizzie	7.	7	7	¢,	-:	ç	ú	÷.	٦	DECEMB	at/pue	ning Baiseer? Streezing Baiseer?	-	~₹.	-₹.	-₹	ij	6	ş.	÷	٠.	
OC.	efszirű ro\bne nisk	6.6	9.3	1.6	, 	9.4	5.6	6.6	4.6	9.3	DEC	+; z z;.	re molbon mind	ç; cı	2.5	2.9	5.2	2,2	5,2	1.9	5.6	2.3	
şπ	Thunder (With or Witnow Precipitation)		:	;	;	į	:	i	;	į	S.F	reditia ne	Thunder (With noitealgloser	1	;	;	1		1	ì	;	į	
	Cjaud Cover £3/10	6.75	27.3	1.61	17.3	17.7	17.2	23.5	1./2	25.2		61,4	Cloud Cover 2	31.7	32.5	30.0	24.1	23.4	6.53	29.7	30.3	28.5	
Jo	Ceilings <4000 Ft and/object A Mi	19.7	20.1	25.0	19.3	3.8.	17.5	18.1	16.8	19.5	at	9 N 9:	Ceilings <+O>> Peilings Y	6.62	6,65	4.06	29.1	58.6	30.4	26.8	59.5	4.68	
20	Ceilings (2000 Ft and) Visibilities (3 Mt	10.5	11.8	13.6	9.11	0.0	9.1	10.3	11.1	10.3	ac	3 Mt	Ceilings <2000	21.4	39.1	19.8	19.7	18.6	9.61	18.4	20.5	19.1	
	Ceilings <200 Ft and/o	1.3	1.7	2.3	1.9	4.	'n.	۲.	.7	1.2		Ft and/or	Ceilings <200 Vistbilities	9.4	4.2	4.1	3.4	3.0	8.8	3.1	3.8	3.6	
	smoitevreadO to redmin	2,382	2,385	2,387	2,387	2,388	2,387	2,384	2,382	19,082		suoțgeals	Mummber of Obse	2,231	2,229	2,226	5,229	2,228	5,229	2,229	5,229	17,830	
	Hours	00-05	03-05	90-90	09-11	12-14	15-17	18-20	21-23	All Hours 1			gonts	20-05	63-05	90-90	09-11	15-14	15-17	18-20	21-23	All Hours 1	
	'													1									
	To assist Occurrences of noisiv or anoiteertado	4.3	6.9	6.6	4.6	5.0	2.1	5.6	3.0	4.4			retucco LatoT rencitoumiedO	9.3	10.7	13.1	14.8	9.6	9.5	9.1	9.0	10.4	ш
	Dast (Blowing and/or Suspended)	1	i	}	į	1	;	1	ł			zo/pure	Dust (Blowing Suspended)	1	;	i	i	i	i	{	1		
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	etwi 10/pre exces	7.	ú	1.7	ò	۲.	c,	ι.	ó	-4.		928	H ro/bra exicat	1.3	1.8	2.6	6.4	2.7	3.1	2.3	1.7	2:5	
	Вод	2.4	6.2	8.2	4.1	1.9	5.0	5:2	3.0	4.0			90 _d	9.1	3.6	9.01	10.0	6.8	9.9	6,0	4.9	9,0	
	To secrement of Tetal Trestantine	21.0	21.3	90.0	18.0	16.0	19.0	21.3	c 20	20.5		jo swa	resul lecurren Precipitation	17.3	16.3	0.91	15.8	14.2	14.4	16.0	34.7	15.5	
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BER	thatS go/bim won2	'n	-4	εū	-#.	ņ	-₹	₹.	-3.	₹.	ER	259	is to/bone word	13.2	13.1	12.6	11.6	10.8	10.8	12.5	11.7	12.0	1
SEPTEMBE	Tokbas nieg Baizeer? Preezing Baizeer?	1	ł	1	ł	1	1	i	-	į	NOVEMB	ac/pus	Preezing Bain Freezing Drize	r:	۲.	4	-# _,	ú	.5	ė	.# <u>.</u>	ċ	ANNUAI
SEP	einsind molbme miss	8.6	21.0	19.9	17.8	17.9	19.7	8.9	21.7	80.0	NO.	e(21).	12 to∖bna nia9	3.0	2.9	3.6	3.3	3.5	3.7	0.4	3.0	3.5	₹
şr	Thunder (With or Wither Thunder (With or Wither	1	į	}		}	o.	Τ.	į	0.	21	почати ис	notW) mader Trecipitation		ł	1	1	1	1	i	°.	o.	tout
	Cloud Cover 53/10	21.9	19.8	13.2	14.2	13.7	12.3	14.5	21.4	16.5		01/	Cloud Cover 53	34.9	33.9	29.0	25.3	4.52	9,42	30.8	33.4	28.9	
20	>\bns ff 0004> egnlii=0 IM A: seiftiidisiV	15.6	17.7	19.3	16.9	15.6	10.8	12.5	13.6	14.9	a	Pt and/o	oocú> sanilias > seitilidisiv	25.3	27.3	96.9	24.8	22.7	23.3	94.9	24.9	25.0	10/
20	Cellings <2000 Ft and A	7.7	9.3	10.9	10.0	6.0	\$.5	5.4	6.8	7.6	21	o/bow 19 2 AM E	Ceilings <2000 estitificisi	16.4	6.91	18.4	17.0	14.7	14.2	15.9	15.4	16.1	ae/
	Cellings <200 Ft and/or Visibilities <1/2 Mi	1.2	1.7	, , ,	-#.	}	7.	'n	1.0	ę.		T/S W.S/T	Ceilings <200 Visibilities <	3.5	4.5		3.3	1.5	5:5	2.7	3.3	3.5	20
	Number of Observations	2,333	2,338	2,340	2,338	2,340	2,340	2,339	2,337	18,705		rvat Lons	esqo io 1equing	2,158	2,157	2,158	2,160	2,159	2,158	2,158	2,156	17,264	5
	smojj	00-05	03-05	90-90	09-11	12-14	15-17	18-20	21-23	All Howrs 1			e <i>a</i> nce	20-00	03-05	90-90	09-11	12-14	15-17	18-20	21-23	All Hours l	
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Rain and/or Drizzle

Cford Cover 53/10

Cellings <200 Ft and/or Visibilities <2000 Ft and/or Visibilities <3 Mi

Sumber of Observations

WIND ROSES

	Mean	beed beed	6.4.4.4.6 1.1.4.6.8	-0.40 t-0	, c. v. 4 , c. v. 4	- v.v.	}	9.4	1			Mean Wind	Speed	40 C E	9.2.2		0.000 F. F.		4.7	
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ARY	Kapts	28-33	6646	0,0		. ·	7	ų.			СН	. Krots	28-33	ō 6		666	666		7	
JANUARY	Speed in Knots	22-27	444	o o d	! 9	ó vi	ų.	æ.			MARCH	Speed in Knots	22-27	ાં વંધ	,	1999	: 4"	?	6	
		17-21	4446	9997	99	o o o o ui	ņ	1.3					17-21	444	9999	540440	i oʻoʻuini	•	1.9	1
		23-16		9945	i ui ui o		.7						31-16	2.46.6	666.	نا شناز شر	idadai	ì	7.0	-
		2	F. 4. 6. 6.	بأذاءن	ندنن	ظظظف	1.8	12.6					7-10	1.8	जलन	يأمنوا مؤ≃	فظمنين	i	9.91	į
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ELMENDORF AFB, ANCHORAGE, ALASKA WIND ROSES

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	ot.	28-33 3							F	_	ots									Ę.
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		7-10	3044	ښې ښو		0,5,4	13	23.5				170	5444	446	211		11.1		15.4	
		9	20 8 2		21.2	e in or o	. c.	30.1				9-1	1.5	194	, 1.1. 6.1.		9.69		28.1	
		0-3	911 6146		2.1.0	 	1.1	39.0				6.3	6.4.4.4 4.6.4.4	2.6.4	- meo .	, v.	123	25.9	\$5.4	
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_	Knots	28-33	666	ç	ė.			٥.		> -	Knota	28-33		9					o.	
MAY	Speed in Knots	22-27 26-33	ė.	o o	. o	o;	9	ci		JULY	Speed in Knote	22-27 28-33	o.		óóó	00			٥.	
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		9	1116	3.5.2	-4-	1181	11 ½	9.12	2			-0	0011			311	181	80.5	45.0	
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ELMENDORF AFB, ANCHORAGE, ALASKA WIND ROSES

	Neg.	Speed	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4.2			8 25	Speed	4 NWW.4	40000-44	7.69.7		9	_
		Total		100.0	19070			Total	4.8 0.0 6.4 4.6 7.4 4.6	variati.	27.7.7.	25.1	0.001	17821
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		18-55			IODAL NINDER OF OBSERVATIONS			19-5						TOTAL NUMBER OF OBSERVATIONS
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		1			OTAL NU			31.10	9				9	FOTAL RE
ER	Crots	0) 1 0)	ó ó ó	9	н	BER	6.0.2	133	66	ė,	o,		7:	
OCTOBER	Speed in Knots	22-27	००० ० न्त्र ०००	ij		DECEMBER	Speed in Knota	12-22	446	6466	64		٠.	
٥	S.	25	#4666 6244666 44	0.7		ū	S.	7	wieć ó	994999	ó si si		7.7	
		32-26	प रुक्त्र्वन् व्यान्थ्र् णित्त्र्	0.5				9141	3°7.07	646466	4600		4.2	
		2	؆؆ ۄػڐؗڛؙۮ؋ۺڣڣ؋ڛؘڂڛٛؠ؆ڟ	15.7				j	8.5. 6.7. 6.7. 6.7.	أتنشع ونعز والز	2413		13.0	
		3	૱૱૱ઌ ૱ઌ૽૽ઌઌ૽ઌ૽૽ૡ૽ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽૱૱૱ ૱ઌઌઌ૽૽૽ઌઌઌ૽૽ઌઌ૽ઌ૽ઌ૽ઌ૽૱	27.7				Ϋ	4490	فندخغط	4 W.4 B		7.38	
		7	พฤษฤษายุ หลังต้อกวิดทั้งทั้งทั้งตั้งสัม ห	8.8				3	4.6.04.4	الأماء دمناه	± 44 44 44	23.1	54.6	
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	Vear	T 0	လို့ ရှိရှိရှိလိုက်သို့ ရှိသို့ ရှိလိုက်လို မှ ၁၉၉၅ ခု ၁၉၉၅ ခု ၁၉၉၅ ၁၉၉၅ ခု ၁၉၉၅	9.6			Needs:	100	30446	14 NO 1-10 N N 10 0 1-1 0 N 4	7.5.7		4	0
	Mean	Total Opens	######################################	100.0 3.8	18700		Mean	Total Speed		- 4000 m - 6		23.7	100.0	17260
	Mean				1		Mean					23.7		
	Mean	Canal			1		Mean	Tate.				23.7		
	Near.	1965 350 S			1		Mean	Marci 1944	17.1 8.9 9.6 7.7			23.7	100.0	
		2000 355 SHE CASE			1		Mean	-8-55 296 John	6. 6.9 8.9 8.7 7.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5			23.7	0.001 0.00	TOTAL NUMBER OF ORGENYATIONS 17260
ABER		(V (V)) (V (V	\$\$\$\$#####\$\$\$##########################	100.0	TOTAL TUBBIES OF DIRECTORIAL LIBROR	BER		Service County County 256 Total	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0			23.7	.0 .00 100.0	
PTEMBER		(V (V)) (V (V	ddd Maggagagagagagag Gagagagagagagagagagagaga	c. o. 100c. o	1	OVEMBER		And 250 250 Date.	17.1 0.00.00.00.00.00.00.00.00.00.00.00.00.0	મુજ્યલુવ સુત્વલુવ ૧૧૧ - ૧૧૧	2.2 6.4 6.6 6.5	7.62	0.001 6. 0. 100.0	
SEPTEMBER		(V (V)) (V (V	666 666 666 666 666 666 666 666 666 66	c. o. 100c.3	1	NOVEMBER	Speed in Moore	25-33 Seed when when 256 Total	17.1 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	ન્યું ત્યું હતું હતું હતું હતું હતું હતું હતું હત	0. 0. 14. 4.0	23.7	.2 .1 .0 .0 100.0	
SEPTEMBER		2.47 28422 3442 41447 4645 354 3540	6 66 6666 66 6 66 6 6 66 6 6 66 6	.2 2 100.3	1	NOVEMBER		28-73 28-39 Sweet will will 256 Total	17.1 10.0 10.0 10.0 10.0 10.0 10.0 10.0	ન્યું ત્યું હતું હતું હતું હતું હતું હતું હતું હત	0.00 to 0.00 t	7.53	0.001 0. 0. 1. 5. 6.	
SEPTEMBER		Charles Applied States where where yet Some	99999999999999999999999999999999999999	.9 .2 .2 .2 .00.3	1	NOVEMBER		1915 254 354 1914 1914 1914 2513 1915 1915	1,4 .6 .2 .1 .0 .0 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	100만(100만) 100만(100만) 100만(100만)		23.7	1.6 .6 .2 .1 .0 .0 100.0	
SEPTEMBER		DESCRIPTION DAMP 25-32 Seets when whels yet than	4000 400000 UC 4000000000000000000000000	c. 2. 2. 2. 2. 10c.0	1	NOVEMBER		Market begg their think think the 25-35 Trees 124-11 State				23.7	5.3 1.6 .6 .2 .1 .0 .0 100.0	
SEPTEMBER		THE CHAST THE ANT BERN SHAFT WHAT WHIS YES TORK	क्षेत्रकं कं क	24.3 4.1 .9 .2 100:0	(1901) (1903) (1903) (1903) (1903) (1903)	NOVEMBER		7400 10406 17400 68407 28438 84440 41447 48459 256 201440	5.5 4.2 1.7 4.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	23.7	14.9 5.3 1.6 .6 .2 .1 .0 .0 100:0	

	S See	Speed	6.2	ž.,	7.7	3.9	6	÷.	4.5		9	0	, ,	9	9	9	o i	2			4	6
		Cotal	13.3	6.1	6.2	2.4	5.2	6.4	0.	3	4	5.6	3.7	5.9	1.0	io.		ċ	8	.93	100.0	220129
		355																				IONS
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		3	o,		10	j -	- 60	9	1.0		1.3	0	7		i c		63	2.5			27.5	
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		i	ı		40.	111		353	18	SSE	to.	888	3	25		100	į.	100.	VAPEL	ğ	101	

CASTLE AFB MERCED, CALIFORNIA (Lat. 37°22'N, Long. 120°34'W, Elev. 198 ft.)

Castle AFB is located in the San Joaquin Valley about six miles northwest of the city of Merced. The San Joaquin Valley is oriented northwest - southeast. It is about 225 miles long with and average width of about 50 miles. Terrain in the vicinity of the airfield is generally level with an abrupt slope about 20 miles northeast where the Sierra Nevada foothills begin. The main crest is about 70 miles to the northeast with elevations from 12,000 - 14,000 feet. The coast range is 50 miles to the southwest with elevations from 2,000 - 5,000 feet, beyond which lies the Pacific Ocean.

The mean annual precipitation is less than 12 inches. The climate is wet and mild in winter while being hot and dry in summer. Most of the precipitation occurs from November to April with practically all the low ceilings and visibilities being confined to these months. Lowest surface visibilities occur under anticyclonic influences when moisture is trapped under a subsidence inversion which forms behind a front. Under these conditions radiation fog will form as soon as surface winds become calm.

From December through March severe icing may be encountered as low as 8,000 feet and in rare cases as low as 5,000 feet, particularly over the mountain areas.

Thunderstorms may occur in any month, with the greatest frequency being in the spring and early fall. Except for the winter months flying conditions are generally quite good.

CASTLE AFB (Cont'd.)

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from January 1942-November 1946 and December 1947-September 1967; with the exception of cloud cover for which data are not available prior to 1946.

CASTLE AFB MERCED, CALIFORNIA

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Ц	Temperature (°F)	o) arm	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	53.3	59.6	8.49	72.9	72.9 79.6 87.9	87.9	95.0	92.4	87.8	78.2	64.3	53.4	74.2
Mean	45.4	50.0		53.9 60.6 66.1	66.1	73.0	0.62	73.0 79.0 76.8 72.9 64.8	72.9	64.8	53.7 46.2	46.2	6.19
Minimum	37.2	40.2	42.6	48.0	52.4	57.8	62.7	37.2 40.2 42.6 48.0 52.4 57.8 62.7 60.9 57.8	57.8	51.1	43.0	38.8	†.6 †
			æ	ecord	Record Temperature Extremes	ature	Extrem	ខន					
Maximum	75	77	88	26	105	112	111	107	901	66	&	72	
Minimum	8	25	29	34 eriod	34 37 43 Period of Record:		50 50 1942-1966	966	75	32	53	25	
MONTHLY MEANS				Prect	Precipitation (Inches)	on (In	ches)						
Precipitation	2.01	2.01 1.70	1.54	1.34	1.34 .45	.07	ы	.02	.13	.45	1.27	1.78	10.75
Snowfall* (*Hail was included in Snowfall Summary prior to January 1956)	T ded in o Janua	.o Snowfa ry 195	E	T eriod	T .0 .0 Period of Record:		.0 Precip Snowfa	.0 .0 .0 Precipitation 1942-1966 Snowfall 1946-1966	o. 1 1461 1461	.0 2-1966 5-1966	o.	o.	E

Maximum and/or Minimum Anemometer Height: 105 feet 04/54; 13 feet 04/60

H 社

ESE 37

NW NW NW NNW NW SSE 42 43 40 30 29 42 43 Period of Record: 1946, 1948, 1950-1966

主

25

SE 51

Wind Direction Velocity

Surface Winds (Knots) - Record Peak Gusts

CASTLE AFB, MERCED, CALIFORNIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

		ı																		
	Total Scannenger of Total Statement of Mising	23.3	29.7	1,2.3	36.1	25.8	16.5	16.4	18.3	25.7	lo ambrantanno (grof morar: or anoisumatanû	2.0	9	12.9	5:5	2.1	2.c	1.2	1.2	4:1
	To the Glowing and to the form	1	ł	i	0,	7	÷	٠,	ł	ı.	no\bne anivo(8) send (bebneque?	٦:	7	ś	ė.	3.	1.0	-4	o.	₹.
	wond Baiwold	1	-	-	1	1		1	ł	i	рускій Биск	;	;	}	-	1	į	į		į
	Smoke and/or Haze	5.7	5.4	6.9	18.4	16.6	12.9	10.8	8.3	9.01	Smoke and/or Hase	1.3	2.4	7.4	4.4	1.6	6.	89	1:1	2.5
	90 <u>4</u>	8	.4. 198	37.9	30.	4.	0.4	9.9	4.1	16.8	303	ن	3.9	6.2	3.	7	7	;	7:	7:
	1 · secondinated Into T Rectifications	7.7	6.7	10.1	4.8	7.0	7.5	7.5	9.9	4.9	Trestpitation	5.2	4.5	5.1	1.7	4.4	3.4	5.5	5.1	6.3
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 $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

CASTLE AFB, MERCED, CALIFORNIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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The property of the property o	TO MAY	A C. # STILLIST NA C. # STILLIST NA C. # STILLIST NA C. MARCOL PROPERTY OF THE	1,6 75.4 .3 2.5 2.5	2.8 70.1 .1 2.2 2.2 1.0 .7	4,6 61,9 2.0 2.0 .9 3,4	5.3 59.0 1.6 1.6 .0 1.1 0.0	5.1 57.3 .0 1.4 1.4 .0 .24	3,5 56.0 .2 2,2 8.254	2.8 61.1 .1 2.1 7 7.1	1,4 72,7 .2 2,030	3.4 64.2 .1 2.0 2.0 .3 .92	JULY	.1 93.0 6. 1. 0 0	91.000	87.422 2, .1 2,11	88.1 .1 .1 1.7 1.7	87.822	1 9 0 7.88	6. 0. 0 0. 0. 1.99	91.5 4. 1. 1 1	.4 89.0 .0 .1 .1 .1 .90
	MAY MAY	Total Control of Andrews And Control of Andrews Andrew	1.6 75.4 .3 2.5 2.5	2.8 70.1 .1 2.2 2.2 1.0 .7	4,6 61,9 2.0 2.0 .9 3,4	5.3 59.0 1.6 1.6 .0 1.1 0.0	.3 5.1 57.3 .0 1.4 1.4 .0 .2 4	.3 3,5 56.0 .2 2,2 8.254	.5 2.8 61.1 .1 2.1 2.1 2.1 1.07	1,4 72,7 .2 2,030	. 4 3.4 66.2 .1 2.0 2.0 .3 .92	Descriptions of table (a) Continue of table (b) Continue of table (c) Continue of table	.1 93.0 6. 1. 0 0	91.000	87.422 2, .1 2,11	88.1 .1 .1 1.7 1.7	87.822	1 9 0 7.88	6. 0. 0 0. 0. 1.99	91.5 4. 1. 1 1	.4 89.0 .0 .1 .1 .1 .90
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... indicates that the condition has occurred exactly 0.00 percent of the time. $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

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CASTLE AFB, MERCED, CALIFORNIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

rences of antisiv of a	Total Occur Obstruction	14.3	19.7	35.3	4.6	19.3	15.4	15.5	13.7	80.1		To seons	enusso LatoT anoitsurisdo	57.8	59.3	65.2	0.40	53.5	8.8		55.6	57.0
To\bns An	Dust (Blowi Suspended)	-	۲:	αį	1.0	1.8	5.1	₫.	4	۲.		To\bns g	Suspended)	7	1	1	7	7	٦.	1	1	4
	ons Saivoid		į	į	1	!	ļ	ļ	1	1			Mond Briwold				į	1	1		i	
ezaH T	Smoke and/o	10.7	10.4	23.7	% °.	17.2	13.2	15.0	12.8	16.1		ə2 9 H	To\bine said/or	13.3	10.5	п.8	4.15	28.1	30.9	23.4	27.5	9.61
	No.	4.5	4.00	7.41	3.4	۲.	٦:	.7	1.7	£.3			304	4.94	4 .8	4.98	45.0	4.72	4.12	29.3	9.04	39.6
Tences of no	russo istoT Precipitary	1.3	5.0	1.7	1:1	1.3	1.7	1.9	1.6	1.6		jo seous	Total Occurre Precipitation	8.5	11.2	12.5	9.5	3.6	8.5	8.8	8.3	9.3
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th or Without (no	Thunder (Wi Precipitati	o.	7	ά	į	7	ó	7	7	7:	ne.	on Fithe	Thunder (With	1			i	1	٦.	1	1	o.
01/62	Cjord Cover	83.8	61.7	69.1	68.7	8.9	0.89	11.11	82.5	74.7		01/6	Cloud Cover	35.6	38.3	St.0	21.2	23.6	29:1	7.96	39.1	30.3
OOC Pt and/or	Ceilings <↓ Visitiitie	10.8	14.7	53.5	0.5	12.8	10.3	10.1	10.5	15.1	30	\ban #1 00 IM ∂>	Sur sanilian e-ifilidialV	61.7	65.1	70.7	6.89	59.8	55.0	53.4	58.7	61.7
40/ bas #1 300	Ceilings <	2.9	4.5	9.5	4.5	1.8	1.7	1.7	1.5	3.6	Jo	in E>	osinilien asinilidisiv	£#.5	0.64	¥.5	5.64	38.1	30.6	38.3	36.4	1.2.1
700 Pt mad/or IM 2\I > 8	Mentings <	-₹.	1.0	1.7	κį	1	1	į	1	4	4	tw d/t>	estitidisiV	1.91	1.08	6.9	11.8	2.7	77	5.5	11.2	11.2
anot favierdi) To TedmiN	2,230	2,232	2,232	2,231	2,232	2,232	2,231	2,232	17,852		servat ions	Mumber of the	2,230	2,232	2,232	2,231	2,230	2,232	2,232	2,229	17,848
	Hours	30-00	03-05	8-90	11-60	2-3-	25-17	29-90	69-12	All Hours 17			gamojj	20-00	03-05	30-30	09-11 8	13-14	15-17 2	18-20 2	21-23 2	ALI. Hours 17
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- 73/10	Cloud Cover	91.2	88.8	97.4	81.1	90.7	19.9	86.9	0.6	₹. 8		01/63	Jakon proto	61.3	57.8	£1.8	47.74	7.3	45.9	8.8	6.09	51.1
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	ganog	20-00	33-05	3	29-53	2-2-	57	22-61	22-53	AC.: Hours I			STUOII	00-05	63-65	80-90	39-11	12-14	15-17	18-80	57-53	ALL Hours D
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Mumber of Observations	6,173
RTGOH	ALL Bours 2

⁻ indicates that the condition Las occurred exactly 0.00 percent of the time. $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.30 percent of the time. A blank indicates that the data are not available.

CASTLE AFB, MERCED, CALIFORNIA WIND ROSES

	2 ×	Speed	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4.00	5.1		Wind	***********	1.00 to 0.00 t	6.7
		Total	פּיִיִּיִי װְסִּיִּלְׁבִּיִּיִּיִּ שְׁרְּפּּטְׁעִׁבִּּמִּטְׁמִּשִּׁטִּ	iguda Burkt	100.0 100.0	1693	Total	2014 111200111 5025 111200111	23.5 23.6 23.6 1.4	179671
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£3		34-40 41-47 48-55 256 Total	00		31.0	TOTAL HANDER OF OSSERVATIONS	איר איר איר איר אירור ויורנו פוורונו פוורונו פ	પૈલમ <u>તુવન્ત્ર</u> ાલ પૈલમ તુવન્ત્રાલ	44 - 144 - 44 2 - 144 - 44	100.001 NIMMER OF OSCIENVATIONS
NUARY		28-33 34-40 41-47 48-55 56 Total	ಾಗುವ ನಿರ್ವಹಿಸಿಗಳು. ಹನನ ನೇಶಕ್ಷಗಳು	44 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11.0 5. 9. 100.0	TOTAL HANDER OF OSSERVATIONS	איר איר איר איר אירור ויורנו פוורונו פוורונו פ	ેં જ્યાનું જુવાન્યુલન ત્યાનું જુવાન્યુલનુલ ભાગભાભાષ્ય છે છે જે અમન્	2.4 2.5 3.7 3.7 5.0 6.0 6.0 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	.3 .0 100.0
JANUARY	Speed in Knote	22-27 28-33 34-40 41-47 48-55 256 Total	6 644666 66 66 844 20 20 20 20 20 20 20 20 20 20 20 20 20		11.0 1.0 .9 .0 100.0	TOTAL HANDER OF OSSERVATIONS	MAKCH Speed in Knota 22-27 28-33 34-40 1,1-11 48-55 556 70tal		644 644 66	1.0 .3 .0 100.0 100.0 100.0 100.0
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JANUARY		17-21 22-27 28-33 34-40 41-47 48-55 256 Total	6 6404666 6 646 6 br>6 6	1,1 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	31.0 17.5 6.7 2.4 1.0 .2 .0 100.0	TOTAL HANDER OF OSSERVATIONS	MARCH Speed in Knote 17-21 - 22-27 - 28-33 - 34-40 - 1,1-47 - 18-55 - 56 - 70th	40 44440 60 6010 60 6010 70	664488 644 644 66 66 66 67 88 88 88 88 88 88 88 88 88 88 88 88 88	28.9 10.8 2.8 1.0 .3 .0 LOGISHWITCHE SPECIAL S
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CASTLE AFB, MERCED, CALIFORNIA WIND ROSES

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		48-55								CASETVA		1	9-32					OF SERVIN
		17-17								COTAL NUMBER OF CRSETVATIONS	b N		17-17					TOTAL NAMBER OF DESERVATIONS
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		11-16	1.8	000	900	ন্ন্প	6.11.3		17.7				7	m 00 00	८०५५५५ <u>५</u>		11.5	
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CASTLE AFB, MERCED, CALIFORNIA WIND ROSES

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	Newson and a second sec	48-55 246 Total						14.3		ı		1	41-h7 48-55 356 Total								39.8		TOTAL TOTAL OF ORSERVATIONS
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	Dir.	NAME NAME NAME NAME NAME NAME NAME NAME	Tot

VANDENBERG AFB, SANTA MARIA, CALIFORNIA (Lat. 34°44'N, Long. 120°34'W, Elev. 378 ft.)

Vandenberg AFB is located on a flat, sandy, brush-covered plain 17 miles south-southwest of Santa Maria, California. The plain slopes gently toward the Pacific Coast three miles to the west, while inland the plain is surrounded by a series of ridges and valleys. One ridge, 12 miles to the south reaches a height of 2100 feet.

Most meteorological parameters reflect the seasonal as well as the diurnal variations in Vandenberg's weather conditions. During the dry season, May through October, most days are clear in the afternoon hours; however, under the influence of the semipermanent Pacific High, considerable advectional and radiational cooling results in the frequent nocturnal occurrence of low stratus clouds and early morning fog. Low ceilings and visibilities occur with less frequency during the wet season, November through April, despite the fact that 90% of the average annual precipitation falls within this period.

Thundershowers are infrequent with most occurring during September when cyclonic activity begins to increase and the instability in the lower levels is at a maximum. Even more infrequent is the occurrence of hail in these thundershowers.

Unequal heating of land and sea surfaces combined with the circulation of the Pacific High, act to provide on-shore winds during most of the daytime hours, while at the same time keeping the station relatively free of industrial pollutants which would otherwise reduce visibilities.

The following data, except for the Temperature and Precipitation

VANDENBERG AFB Cont'd.)

Summary, are based on twenty-four hourly observations from July 1951-December 1952 and June 1958-August 1967.

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Tei	Temperature $({}^{\circ}$ F)	o) arr	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	7.09	4.09	4.65	61.1	59.8	62.7	0.49	65.8	67.2	68.4	4.49	61.8	63.1
Mean	52.2	52.6	52.3	54.2	53.9	56.8	58.4	59.8	60.2	60.1	55.8	53.1	55.9
Minimum	43.2	74.2	44.7	8.94	47.5	50.4	52.3	53.4	52.7	51.3	1,6.8	43.8	48.1
				Record		Temperature	Extremes	mes					
Maximum	78	78	4	88	47	92	85	96	92	66	9 3	87	
Minimum	90	31	31	36 37 41 Period of Record:	37 of Rec	41 cord:	45 45 1951-1952,		43 35 1958-1965	35 965	32	8	
MONTHLY MEANS				Prec	Precipitation (Inches)	ion (L	nches)						
Precipitation	2.16	2.60	2.25	1.25	.11	.03	.01	.05	8	.61	2.06	1.37	12.69
Snowfall* .2 .0 (*Hail was included in Snowfall Summary prior to January 1956)	.2 .0 uded in Snowfall to January 1956)	.0 Snowfa ry 195	o.	.0 Period	.0 .0 of Record:	.0	.0 Precipit Snowfall	.0 .0 Precipitation Snowfall		.0 1952, 19 1952, 19	.0 .058-1965 1957-1965	0.	ા
		Ω	urface	Surface Winds (Knots) - Record Peak Gusts	(Knots	s) - Re	ecord]	Peak G	usts				
Wind Direction Velocity	36	WNW 32	S 3	WNW 34 Period	WNW NW 35 32 of Record:	NW 32 Sord:	NNW NW 28 25 1963-1965	NW 25 1965	NW 25	NW 30	SE 35	32 32	

Maximum and/or Minimum Anemometer Height: 13 feet 10/60

Percentage Frequencies of Occurrence of Specified Weather Conditions

% sentrement of the second second of the second sec	5.4	13.0	9.31	14.3	11.5	12.1	14,4	15.5	13.4	Total Occurrences of Obstructions to Vision	21.0	73.6	25.5	13.6	7.8	9.6	15.7	15.2	16.3
tet (Blowing and/or (Bebneda)	s .	-	1	1	7	1	1	-	ą.	Dust (Blowing and/or Suspended)			1	-	1	;	-	1	-
Acce Suivol	g :	;		1	1	;	i	;	-	Biowing Snew		i	1		ì		!	i	
szah ro\bna sakoa		}	9,	5	3.8	1.1	5.6	1.3	2.0	Sancke and/or Haze	ب	6.	5.0	3.4	. 5.4	9.4	5.7	6.5	3.0
90	651	13.0	12.4	35.5	4.9	90	13.3	14.7	12,2	80 ₄	30.5	23.5	2h. 4	10.8	9,4	5.8	11.7	4.1	14.2
obal Occurrences of recipitation		6.8	5.5	7.4 1	,	5.5	6.7	5.9 1	6.3 1	ic securranced Lesof Recipitations	6.4 3	2,6 2,	F. 9. P	6.0 10	- 9'1	£.3	7.5	4.4 1)	5.8 14
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numder (With or Without Tecipitation)	-:	i	į	٦:	;	1	}	1	o.	Successive (Asia) and Wickows Processive (no. 1522 february)	7	1			-	-	-	-	9
gong cower class	77.3	33.1	50.1	1997	3.1	1,14	2.4	25.0	17.5	Sivit meved broid	41.9	37.3	32.9	37.8	4,24		43.3	- 4.54	41.1
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	8	693	Ś	ŝ	á	15	18	7.	Hot	gome	00-05	03	90	09-11	15	15	-81	21-23	Ail
otal Cocurrences of batton to Vision	10.6	11.4	10.3	7.5	0.7	6.3	11.0	10.5	6.5	Total Occurrences of Observations to Vision	15.9	20.5	16.8	4.6	7.7	10.0	12,4	13.5	13.1
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¥c	5	4.0	6.6	5.3	4.5	6.4	8.8	5.7	8.1	902	15.1	19.7	16.7	9.6	5.6	6.2	11.4	12.9	13.1
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Stanfall Tolbus nia		5.7	5.5	5	5.3	5.7	6.3	6.8	5.8	9 sizsitu novāma nias	6.7	9.4	°.	4.7	4.5	9.4	÷.	0.9	6.4
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Cond Cover 43/10	55.0	52.5	0.64	6.54	45.2	43.5	48.2	52.1	49.1	Cloud Cover 43/10	4.44	4.8	36.0	37.8	36.1	35.3	36.9	115.6	39.9
To\bas 19 0004> sgailie 1M d> seifilidiel	95.5	5.	23.5	89.5	16.8	9	23.5	23.5	21.5	Teilings < 0000 Ft and/or Visibilities <8 Mi	35.5	36.6	33.6	27.3	8.23	98.0	27.2	30.3	23.8
entitates <2 Mt Filings <2000 Ft end/or	15.2	14.5	13.8	12.2	7.6	0.54	16.1	16.5	13.7	To Line 39 0000's Bailing To Line 39 0000's Bailing 1900 1900 1900 1900 1900 1900 1900 190	8.92	7.63	35.6	0.71	12.9	16.9	4.08	25.3	8.9
To\bas 57 005> sgailie IM S\I> e÷itklidiei		5.5	ď.	œ.	e.	1.7	3.2	4.4	2.5	tollings <2005 sanilist IN 5/15 salitities V	7.9	3.5	6.1	1.5	7	9.	3.6	7.0	9.4
enojapviesdů lo redmu	336	937	3	930	930	668	A37	636	6,973	Sumber of Chservettons	969	837	999	86	356	997	837	837	6,968
sæno	20-00	33-05	9000	09-11	41-21	15-17	18-20	21-23	All Hours	<i></i> Kom.a	20-00	03-05	90-90	09-11	12-14	15-17	18-20	21-53	All Hours

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time.
A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	39.8	53.6	53.5	23.8	11.3	14.1	27.1	33.1	31.8	otal Occurrences of fatructions to Vision	63.5	73.0	6.51	38.1	12.9	17.8	0.94	55.3	47.1	
	To\bna gailowing and\or Suspended)	-	1	1	7:	÷.	ď	}	-	7	ust (Blowing and/or uspended)		1	1	-	l	1	1		ļ	
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	804	35.5	53.4	52.1	21.6	0.01	13.2	24.9	31.2	4.8	9e	63.5	73.0	0.47	32.3	5.	15.2	45.9	9.46	6.44	
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5	snullery of Observations	8	\$	986	383	æ	986	\$	d)	7,433	шрык от Орескиятори	× 80	930	1,085	1,115	1,113	8	930	930	450,8	
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,	804	36.5	33.3	 	16.2	3.5	17.1	13.1	8	21.2	я	₹ 62.9	7	a.	31.3	6.7	15.1	2.5	52.3	7.9	
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

— indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

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Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Maior	33.9	% .1	36.5	55.6	19.7	8.1	31.2	33.0		U	To esonstruceO olsiV of enoided	Total	34.2	14.2	15.5	11.9	3.5	9.51	16.7	14.1	13.4	
	Tolat (Blowing and/or (behased)	1	1	ļ	;	۲.	.3	Ŋ	;	7		Blowing and/or	grates	1	;	ł	.3	.3	1	;		۲.	
	Blowing Snow	}	;	į	}	į	į	1	1	į		Mone a	Browli	1	}	1	1	1	1	1	1		
	Same and/or Haze	ı,	ċ	1.6	4.5	9.6	10.3	5.1	5.6	÷.7		exañ To\bus	эжоже	٠.	₫.	1.2	8.5	5.0	2.0	5.6	ċ	.;	
	308	33.5	35.6	37.2	21.2	11.2	17.1	57.0	31.1	25.25			90d	13.9	13.9	4.4	3.1	۲.	9.6	15.4	13.6	11.4	
	Total Occurrences of Precipitation	5.3	6.5	3.9	17	5	ê	67	2.3	2.7		To securrences of noileati		5.3	3.9	# W	-		3.3	5:1	5.1	6,4	
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	to securization later moisiv of enoithurizado	43.8	51.1	58.6	30.9	14.9	17,6	23.0	35.3	34.8		Occurrences of etions to Vision	Total Obstru	18.0	18,1	23.2	15.5	12.2	14.0	18.3	16.8	17.1	
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	90 _d	43.8	7.5	55.0	9,98	970	12.6	25. P	8.45	32.0			Boi	17.	36.9	21.1	5.1	6.1	6.9	15.P	17.3	13.7	
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	01/62 mayod buold	16.9	3.3	3.5	- O-104	57.7	5.5	5.14		4.14		01/83 Jeao	pnoi)	36.4	58.2	47.1	4.5.4	45.4	42.6	1.74	53.6	46.9	
21	olbna ri 0004° agailte0 IM 4° aeittiidiaiv		66.1	5.69	118.6	26,6	36.4	17.6	51.5	50.L	,ti	s «4,000 Pt همط/ غرزوه ۵۰ هزز	Geiling Visibiv	31.7	29.3	31.8	24.9	25.0	23.7	27.8	30,6	27.5	
	Ceilings <2000 Pt and/o Visibilities <3 Mi							e.		1,6,1	2	# <2000 Pt and/	Ceiling Visibii	23.8	21.4	25,5	15.3	11.3	15.3	4.08	22.7	18.7	
	Ocilings <200 Pt and/or Misibilitities <1/2 Mi			0				3.1		14.3		o/bas 47 005; s (f.tes <1/2 Mi	Ceiling TidisiV	7,3	6.3	1.1	6,	ŗ	ď.	4,2	7.0	0.4	
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0.0 indicates that the condition has occurred less than 0.05 percent of the time.

--- indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

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Total Occurrences of Precipitation

Cloud Cover 43/10

Cellings <200 Pt and/or Visibilities <1/2 Mi Cellings <2000 Pt and/or Visibilities <3 Mi

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ANNUAL

WIND ROSES

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	10 mm 2 mm 2 mm 2 mm 2 mm 2 mm 2 mm 2 mm	41-47 48-55 256 Total				14.1				200	41-47 48-55 256 Total							CALL THE CALCULATIONS OF COMMENTS AND COMMEN
Υ.		34-40 41-47 48-55 ±56 Total				14.1	0.001	TOTAL NAMEDRA OF ORGENYATIONS			34-40 41-47 48-55 256 Total							CANAL TAXABLE ON CANAL TAXABLE CONTRACT
NUARY		28-33 34-46 41-47 48-55 256 Total	መታሰብ ኮያ	oo qaaa in		1.41			ARCH		34-40 41-47 48-55 256 Total			1.2		9.TT	100.0	CALL STREET AND UNIVERSITY OF CHARGE TAXABLE
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McCOY AFB ORLANDO, FLORIDA (Lat. 28°27'N, Long. 81°18'W, Elev. 95 ft.)

Within a 30 nautical mile radius of McCoy AFB there are numerous lakes, grassy marshlands and citrus groves. The prevailing terrain averages 50 - 150 feet, with the highest point, 325 feet, at Iron Mountain, 35 nautical miles to the south-southwest.

Essentially, there are two seasons in central Florida, winter and summer. Spring and fall are transition periods of short duration. From late November to early March, weather related flight restrictions are generally due to light precipitation, early morning fog and/or stratus. The fog and/or stratus will usually lift within two or three hours after sunrise.

During spring and fall, which are rather brief, frontal weather associated with pronounced air mass discontinuties can trigger some intense thunderstorm activity with accompanying gusty winds and widespread low cloud conditions. This section of Florida has the highest frequency of thunderstorm occurrences in North America. Thunderstorms occur in all months, but are principally confined to the summer season, May to late September. Hail seldom occurs with air-mass thunderstorms, but occurrence is always possible in squall line thunderstorms.

In the fall and winter general use of smudge pots in the citrus grove and the burning of underbrush act to reduce surface visibilities, particularly in the early morning hours.

Generally at least one tropical storm or hurricane will affect the Orlando area every two years.

McCOY AFB (Cont'd.)

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from January 1944-February 1946, September-October 1946 and May 1952-November 1967; with the exception of cloud cover for which data are not available prior to 1946.

McCOY AFB ORLANDO, FLORIDA

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Те	Temperature $(^\circ F)$	ure (°	F)						
	Jan.	Feb.	Mar.	Apr.	May		June July Aug.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Meximum	9.69	73.0	73.0 76.6 81.7	81.7	86.8		89.2 89.9	%	88.0		82.0 76.3	70.5	81.2
Mean	59.6	63.0	66.7	71.8	76.7	4.08	59.6 63.0 66.7 71.8 76.7 80.4 81.8 81.9 80.3 74.0 67.0 60.6	81.9	80.3	74.0	0.79	9.09	72.1
Minimum	49.2	52.6	56.3	61.5	66.3	71.2	49.2 52.6 56.3 61.5 66.3 71.2 73.1 73.5 72.3 65.5 57.3 50.2	73.5	72.3	65.5	57.3	50.2	62.6
			1 4	ecord	Temper	ature	Record Temperature Extremes	ល					
Maximum	88	68	16	%	101	100	98	26	%	92	88	85	
Minimum	† _Z	83	34 P	36 eriod	44 of Rec	59 ord:	36 44 59 67 65 60 ¹ Period of Record: 1944-1946, 1952-1966	65 946, 19	60 952-19	⁴ 5	8	ส	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	2.33	2.51	3.59	2.30	2.53	7.12	2.33 2.51 3.59 2.30 2.53 7.12 7.22 5.66 6.14 3.54 1.48	5.66	6.14	3.54	1.48	1.72	46.14
Snowfall* T .0 (*Hail was included in Snowfall Summary prior to January 1956)	T .0 uded in Snowfall to January 1956)	.0 Snowfa ry 195	Ģ	T eriod	.0 of Rec	ord:) T .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 itatio	0. 491. 1940.	.0 4-1946 5, 195	.0 1952 2-1966	.0-1966	E

Surface Winds (Knots) - Record Peak Gusts

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NW 34 1966
SW NW 43 34 1964-1966
SW N 41 44 1956-1962,
SW 41 1956-
E 44 cord:
NNW NNE E 36 36 44 Period of Record:
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38
Wind Direction Velocity

Maximum and/or Minimum Anemometer Height: 100 feet 04/53; 13 feet 04/57

McCOY AFB, ORLANDO, FLORIDA

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	19.0	28.1	34.8	9.61	4.6	9.1	8.0	10.3	:	17.0	TOD L	siv ot	Truppo l enoitour	atoT sad0	17.71	21.2	25.8	ę. _{\$}	5.9	2.2	3.1	4.6		6
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	Pog.	11.9	22.3	0.0	1.6	9.6	0.0	2.5	3.9		10.5				303	6.5	16.9	19.1	1.8	5.	e.	e.	o.		5.8
	To announce Security and Transfer of Table 1011 and 122 and 12	5.7	0.9	6.7	5.6	5.3	6.5	5.5	5.8		5.9	j	jo gasu.	annoo0 nutamatid	Total	2.5	1.8	5.6	2.2	7.4	6.3	3.9	٠ <u>.</u>		3.3
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	Cloud Cover £3/10	47.15	.0		8.48	20.7	7,72	45.4	51.4		1.7		01/8	Cover :	Direct D	63.8	59.5	43.3	36.3	27.0	33.6	45.9	61.2	į	16.3
	To\bns 27 0004 - abnitis0 iM d> aslititidis!V	١.	. ~	0		28.7	90.6	6.9	17.5		28.1	40/p	ин эт с im 8	enijii. anijii.	Cellir Visibi	13.7	6.45	28.4	6.12	8.8	16.7	8.1	0,7	i	19.1
	To\bns FT 9000's agmitted IM E> selfillidialV	١.,		, ₂	19.6	ı, ad		7.7	9.6		14.5	40/P		comession in		6.2	14.3	6.91	1:1	2,1	61	1.8	. c	:	6.7
	Tu\bus 2700 Pt and/or IM S\f> sellilidialV				1.0	1	1	7	9.		5.0	40/	Per and	006 - 200 estrif.	Cellir Visibi	'n	3.5	3.5	i	į	į		-	!	6.
i)	Smolteviel Of Observations	8	3	8	8	8	8	28	1,48		958,	912	oi Javas	isaki ja .	д-пирец	1,529	1,530	1,530	1,530	1,530	1,530	1.530	2	300	12,239
	yomus	000	1 10 10	98-98	1 1-90	1 2					Hours 11				втион	87	60-60	6-38	26-12	2-17	Ŋ	18-20		,	Hours 1
		} >	s ë	5	č	; ;:	-		i iu	٩	¢ Æ					,,	0	()			.,		,		
	To average of Injoinstance and six of another and the second seco	1 :		x		, ,		9	12.6		17.9	wo	Ju sast	necurres enoits	Total UnivedO	13.2	4.45	33.0	12.1	5.5	. 2	4		ò	13.4
	To\bne galvolf) Jaud (bebiegan)					-	!				o.		ao/pun	Blowing ded)	Dust (-	i	}	7.	"	. "		:	•	۲.
	wond Baiwold	ļ	İ								}			Acus i	Втоліп	1	į	1	1		1			}	ì
2	moke and/or Haze	3			2 :		; ;	, u	5 0	:	8.5		J29	H 40/pum	Smoke	6.8	6.9	4.6	7.5	C.	. ~		, ,	5.6	5.9
•	No.		7 E		• -	1 2	- o	2.	0 0		9.01				Rof	6.3	19.5	99.	5.1		· ·		1.0	 	જે
	To enomerance of also doilatiqipar	1 .	# V		· .	2 .	, ,	? .			9.6		jo sec	notanoo noisma	Total C	9.4	5.1	5.5				3	·.		5.4
	(18)	н	1		į	ļ		ļ	i	ĺ					Light		į	į						ŀ	į
	F touts no/box won	s				-:		ļ	!	ļ	o.	=) as	13 ao/b	na wond	i	ł	ł	į				!	į	i
	AND "Isziri Toobne ais and seer a see			ļ		1		!	-	:	i	ARCI	ao/pus	s niad 2s Issirii 3s	nisaory nisoory		į	i			ì	!	!	ļ	1
	AlszirC Tulbna mis	н .		2.0		2.5	r.	o.	0.0	, ,	5.6	Σ	J-17.2	jad ao∕þ	na nias	9.7	5.1		: "	: '	2,0		6.3	5.3	**
	number (With or Without redipitation)		•	4	∹	οi	1		ų,	ů.	٦.	anc	ngrin a	(mosted (mosted		۳.	· -*;	-4	. 4		7:7	1.3	2.5	ç.	ę.
	loud Cover 13/10	J	53.3	1.8.1	92 1.	34.B	8.9	6.4	45.6	ń.	42.5		01	/£7 .14AU	D butol3	a)	9	, Y	, i	š,	6.6	8	43.4	54.7	62.0
	no\bns J9 0504. sgnili∗ !K d> s⊕iffildie;	1			e. ∰	31.0	ς. Έ. τ	17.1	16.6	17.3	88	"IO"	hra 14 iM	9 - 80131 0004 - 8	Ceiling: Visibil	3 71	, F	3 9	3 8	÷	24.5	19.1	12.5	୍.ସ	52.6
	no/bna of 000% agaille (M.F. amidillein)		٠,			19.1	8.9	5:1	5.9	0.0	13.5	40,	Ft and/	0009 × 8	114181A	0	, <u>4</u>	1	Ċ :	ķ	ν. Θ	4	4.6	4.0	7.01
	ao∖buw 3M UOS∘ saniiis i# Clr seiliidiai	. l				1.5	}	į	1		5.6	J.	SM S/	8 - 200 F	Celling Visibil	d	, 4		÷ ,			}	αį	i	7:7
	anni invreedo do nedm	· N	1,653	1,653	1,655	959"1	969,1	959,1	1,655	1,656	13,240		suo; זייא	Jeset.) Tadawi	9	1, 19	1, 1	1,581	1,581	1,581	1,581	1,581	1,581	12,648
	Eam		3-3			::-5	_			27-23	ALL Hours 13				inoi	,				3	12-14	2-13	16-20	52-53	ALL: Hours 1
		l	K	CI	5	22	.3	74	.1	114	ના છો					1 '	, ,	,	U	.,	-	•	-		

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

McCOY AFB, ORLANDO, FLORIDA Percentage Frequencies of Occurrence of Specified Weather Conditions

	1											,									
	Total Occurrences of Obstructions to Vision	7.1	18.7	2.2	3.6	2.1	2.5	0.4	£.3	7.9		To assist Occurrences of moisiv of anoiteurisedO	3.9	5.4	14.1	œ.	s.	9.	1.0	1.8	0.4
	mo/bem gaivoid) fund (behangang	i	:	ì	i	۲.	į	į		o.		Dust (Blowing and/or Suspended)	1	;	}	1	ļ	i	i	i	ł
	Moning Snew	l	}	1	i	;	ł	į	į	ì		Plouting Snow	1	į	1	}	į	Ì	į		!
	ezeli To\bran extend	5.6	8.0	9.6	3.3	1.8	1.9	3.4	4.7	÷.		Smoke and/or Haze	2,3	2.7	3.0	7.	ŗ.	5.	æ.	1.4	1.5
	301	1.6	12.6	14.8	÷	αį	οij	9.	cu.	e,		904	1.6	7.5	12,2	ui.	κi	7:	Ċ.	₹.	8.8
	Total Occurrences of Precipitation	2.7	5,6	2.2	3.5	8,1	14.8	12.7	0.9	9.9		Total Occurrences of Precipitation	1.6	1.0	ω̈́	3.5	11.1	17.5	15.9	3	4.9
	I FOR I	į		1	1	7.	;	1		ó		र ५ व्यक्त	:	į	į	ŀ	į	7	ì	į	0,
	feet To/bos word	į	;	i	į	1	į	;	:	į	E	Smow and/or Sleet	;	į	1	1	į	;	ļ		;
	Now has night sorter of No. 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1	ļ	į	i	1	;	į	1	į	:	AUGUST	Preezing Rain and/or Freezing Drizzle		į	į	;	ļ		į	ì	ì
	Sissing modificate missing	7:3	5.6	5:5	3.5	8.1	14.8	7.51	0.9	9.9	¥	fizzitC To\bma nie8	1.6	1.0	8,	5.5	11.11	17.5	12.9	4.2	4.9
	Thunder (With or Without Precipitation)	αi	-#.	٦:	9.	5.8	0.11	8.1	5.5	3.6	ş.r	Thunder (With or Withor Precipitation)	٠.	1	۲.	1.0	9.5	14.1	1.8	1.4	4,3
	Cloud Cover £3/10	0.96	55.5	36.9	6.61	3.5	11.6	27.4	38.8	31.1		Cjoud Cover 53/10	52.6	62.3	45.4	19.5	5.1	6.1	15.4	34.6	30.1
,	Cellings <4000 Pt and/or Visibilities <6 Mi	7.3	19.0	23.2	54.6	35.3	25.1	15.3	9.0	19.3	ac	Ceilings 'bCOO Pt and's Visibilities '6 Mi	3.3	6.7	12.5	55.6	35.5		15.4	a.	15.7
	Ceilings <2500 Pt and/or Visibilities <3 Mi	2.2	8.2	10.1	4.	2.5	3.5	3.2	5.0	4.5	20	Ceilings <2000 Pt and A	1.6	3.6	6.2	3.3	5.6	3.2	4	1.1	3.0
	Tollings <200 Ft and/or	ļ	1.9	1.2	ì	7	9.	αį	7	5.	ı	oltas 27 900 samiliso N S\f> asizilidisiV	ď	ō,	1.3	i	۲.	7	۲.	į	ė
)	Sumber of Observations	1,619	1,618	1,620	1,620	1,620	1,619	1,619	1,620	12,955		Number of Observations	1,674	1,674	1,674	1,674	1,674	1,673	1,674	1,674	13, 391
	Rome	20-00	03-05	90-90	09-11	15-17	15-17	18-20	21-23	All Hours 1		gorta	00-00	03-05	80-90	09-11	15-14	15-17	18-20	21-23	All Hours
ì	,											!									
;																					
:	Total Occurrences of Total Occurrences	13.7	25.3	29.5	7.5	5.5	9.9	7.	7:1	12.7		To esonerrupoo LajoT neisiv of anoithuritado	3.3	9.1	5.6	1.4	6.	9,	è	7.7	3.3
		13.7	85.3	29.5	2.5	.2 5.2	.3 6.6	7.1	7.1	.1 12.7		To\bne gaiwoif Jand (behasels to esonerrupsot Lesof noisiv or anoisumriseto	3.3	8.1	7.6	17.4	6.	9	6	1.7	3.3
	Zofel Occurrences of	13.7	25.3	29.5	3.7	.2 5.2	9.9 €.	7.1	7.1			Local Occurrences of Susbended)	3.3	9.1	7.6	1,4	6.	9	6	1.7	3.3
o i morrisode -	Dust (Riowing and/or Suspended)	9.3 13.7	9.1 25.3	12.8 29.5	6.7 7.5	4.8 5.2	6.33 6.6	6.8 7.1	6.8 7.1			The Blowing and/or (Blowing and/or)	1.7 3.3	2.3 8.1	2.6 9.7	1.1 1.4	6 6.	9 5.	6 6.	1.6 1.7	1.5 3.3
or morresode to	Blowing Snow	3		8	1	e :	3 3	.2 6.8 7.1	.4 6.8 7.1	٠ :		Blowing Snow and/or Calon gained and/or capended)	!	3 8	!		:	1	1	1	1
	Sank and/or Hare work and/or Hare bound and/or put (Blowing and/or call) read or forement to the property of t	9.3	9.1	12.8	6.7	£. 8.4	6.33		3.3 .4 6.8 7.1	0 7.8 0.1		Sacks and/or Nace bowing Snow for Bowing and/or related the special states of the source of the sour	1.7	2.3	2.6		:	1	1	1.6	1.5
	Does provided to the control of the	9.3	19.4 9.1	21.0 12.8	.8 6.7	S 8.4 S.	6.33			6.0 7.8		Pockpitanion Sudve and/or Naze Sudve and/or Naze Sudve and/or Postal (Sloving and/or Postal (Sloving and/or Postal (Sloving and/or) Postal (Sloving and/or)	1.6 1.7	5.9 2.3	2.6	.4 1.1	:	.1 .5	6	1.6	2.0 1.5
	Total Jocurrences of Precipitation: Smoke and/or Haze Smoke and/or Haze Most (Blowing and/or	9.3	19.4 9.1	21.0 12.8	.8 6.7	S 8.4 S.	6.33			6.0 7.8		To short more of the first of t	1.6 1.7	5.9 2.3	2.6	.4 1.1	:	.1 .5	6	1.6	2.0 1.5
	Hail Supplemented of Total Docurrences of Total Docurrences of Precipitation Precipitation Haze Precipitation Haze Substance and Substances of Total Docurrences of Total Substances of Substanc	9.3	19.4 9.1	21.0 12.8	.8 6.7	S 8.4 S.	6.33			6.0 7.8	3	Juels Tolham wood Jiels Josephaness Josep	1.6 1.7	5.9 2.3	2.6	.4 1.1	:	.1 .5	6	1.6	2.0 1.5
	Smow and/or Siect Smoke and/or Siect Smoke and/or Haze Smoke and/or Haze Total Docurrences of Total Calouing and/or Total Calouing	9.3	19.4 9.1	21.0 12.8	.8 6.7	S 8.4 S.	6.33			6.0 7.8	חתר	Treesing Total Action (70) District Total Occurrences of the market Driver of the market Driver of the market of t	1.6 1.7	5.9 2.3	2.6	.4 1.1	:	.1 .5	6	1.6	2.0 1.5
	MA Y Tobas party and out of o	1.7 1.7 5.5 9.3	1.5 1.5 19.4 9.1	1.6 21.0 12.8	2.7 2.7 .8 6.7	3.9 3.9 .2 4.82	6.3 .1 6.33	6.1 6.1 .2	3.3	3.4 6.0 7.8 1	וחר	Obea field and/or Steering Selisary Seeing	1.7 1.7 1.6 1.7	1.1 5.9 2.3	1.4 8.2 2.6	3.1 3.1 1.1	6 11.1	5. 1. 0.71	14,2 9	5.1 .1 1.6	6.8 2.0 1.5
	MAKE STATES OF THE STATES OF T	1.7 1.7 5.5 9.3	1.5 1.5 19.4 9.1 0	1,6 1,6 21,0 12,8	2.7 2.7 .8 6.7	3 3.9 3.9 .2 4.8	0 6.3 6.3 6.33	5 6.1 6.1 .2	3.3 3.3	8 3,4 3,4 6.0 7.81	וחר	Thee fpitation) Man and/or Dillite Mount (Bowling Pain and/or Start Mount (Bowling Smow M	1.7 1.7 1.6 1.7	1.1 1.1 5.9 2.3	1,4 1.4 8,2 2.6	3.1 3.1 1.1		5. 1, 0,71 0,71 8.	14,299	5.1 5.1 1.6 5.1	.7 6.8 6.8 2.0 1.5
	MAA Touring Without Therefore of Precipitation, of the shall of the sh	7. 2 1.7 1.7 5.5 9.3 7	64,0 .1 1.5 1.5 19.4 9.1	.1 1.6 1.6 21.0 12.8	.6 2.7 2.7 .8 6.7	2.3 3.9 3.9 .2 4.8	5.0 6.3 6.3 .1 6.33	3 4.5 6.1 6.1 .2	3 1.6 3.3 3.3	1.6 3.4 3.4 6.0 7.81	ATIN	Thunder (Min) or Wince (Min) or Wince (Min, Min) or Wince (Min, Min) or Min (Min) or Min (Min) or Min) or Min (Min) or Min) or	8 .4 1.7 1.7 1.6 1.7	0 .1 1.1 1.1 5.9 2.3	1,4 1.4 8,2 2.6	3.1 3.1 1.1	8.2 11,199	14.8 17.0 17.0 .1 .5	10.8 14.299	.8 2.7 5.1 5.1 1.6	.2 h.7 6.8 6.8 2.0 1.5
	See and offines of confines of	.,, 66.7 ,2 1.7 1.7 5.5 9.3	26.4 64.0 .1 1.5 1.5 19.4 9.1	30.5 46.6 .1 1.6 1.6 21.0 12.8	32.1 .6 2.7 2.7 6 6.7	20.9 2.3 3.9 3.9 .2 4.82	25.6 5.0 6.3 6.3 6.3 3	33.3 4.5 6.1 6.1 .2	53.3 1.6 3.3 3.3	7 43.1 1.6 3.4 3.4 6.0 7.81	A'INF	The solution of the high of the state of the	52.8 ,4 1.7 1.7 1.6 1.7	60.0 .1 1.1 1.1 5.9 2.3	4.5 9.9 37.1 .1 1.4 1.4 8.2 2.6	14.6 .7 3.1 3.1 .4 1.1	0 5.6 8.2 11,1 11,19	.4 6.2 14.8 17.0 17.0 .1 .5	13.6 10.8 14.2 14.29	26.8 2.7 5.1 5.1 .1 1.6 5.1	2 28.2 4.7 6.8 6.8 2.0 1.5
	Washington 3 Mf Cestings 4000 F and/or Cloud Cover 53/10 Freeting Action or Wichout Freeting Action or Wichout Freeting Action Freeting	12,4 66.7 .2 1.7 1.7 5.5 9.3	5 26.4 64.0 .1 1.5 1.5 19.4 9.1	30.5 46.6 .1 1.6 1.6 21.0 12.8	23.3 32.1 .6 2.7 2.7 6.7	26.4 20.9 2.3 3.9 3.9 .2 4.82	17.7 25.6 5.0 6.3 6.3 6.33	12.4 33.3 4.5 6.1 6.1 .2	7.7 53.3 1.6 3.3 3.3	19.7 43.1 1.6 3.4 3.4 6.0 7.81	A'INC	Total Gover 17 Mt. Sale Cover 1	3.6 52.8 ,4 1.7 1.7 1.6 1.7 1.6	6 7.6 60.0 .1 1.1 1.1 5.9 2.3	9.9 37.1 .1 1.4 1.4 8.2 2.6	21.6 14.6 .7 3.1 3.1 .4 1.1 1.1	32.0 5.6 8.2 11,1 11.19	27.4 6.2 14.8 17.0 17.0 .1 .5	14,3 13,6 10,8 14,2 14,2 ,9	4.7 28.8 2.7 5.1 5.1 .1 1.6 5.1	4 15.2 28.2 4.7 6.8 6.8 2.0 1.5
	Collings (2000 Pt and/or Valentities 1/2 Mi Collings (2000 Pt and/or Valentities 1/2 Mi Collings (2000 Pt and/or Valentities 6 Mi Collings (2000 Pt and/or Precipitation) Precipitation;	3.7 12.4 66.7 .2 1.7 1.7 5.5 9.3	2.6 12.6 26.4 64.0 .1 1.5 1.5 19.4 9.1	3.0 15.0 30.5 46.6 .1 1.6 1.6 21.0 12.8	23.3 32.1 .6 2.7 2.7 6.7	1,2 26,4 20.9 2.3 3.9 3.9 .2 4,82	1.9 17.7 25.6 5.0 6.3 6.3 6.33	12.4 33.3 4.5 6.1 6.1 .2	7.7 53.3 1.6 3.3 3.3	.8 5.3 19.7 43.1 1.6 3.4 3.4 6.0 7.81	A'INC	Section of Contraction of Market Section of Mark	1.4 3.6 52.8 .4 1.7 1.7 1.6 1.7	2.6 7.6 60.0 .1 1.1 1.1 5.9 2.3	4.5 9.9 37.1 .1 1.4 1.4 8.2 2.6	2.5 21.6 14.6 .7 3.1 3.1 3.1	2,4 32,0 5.6 8.2 11,1 11,1 ,9	3.2 27.4 6.2 14.8 17.0 17.0 .1 .55	2.0 14,3 13.6 10.8 14,2 14,2 ,9	.5 4.7 28.8 2.7 5.1 5.1 .1 1.6 1.6	.2 2.4 15,2 28.2 4,7 6.8 6.8 2.0 1.5
	Cellings -200 Ft and/or Supplicas -1/2 Mi Suppli	3.7 12.4 68.7 .2 1.7 1.7 5.5 9.3	2.6 12.6 26.4 64.0 .1 1.5 1.5 19.4 9.1	3.0 15.0 30.5 46.6 .1 1.6 1.6 21.0 12.8	4.5 23.3 32.1 .6 2.7 2.7 .8 6.7	.1 1,2 26,4 20,9 2.3 3.9 3,9 .2 4,82	.1 1.9 17.7 25.6 5.0 6.3 6.3 6.33	1.7 12.4 33.3 4.5 6.1 6.1	3.3 3.3 3.3 3.3	5.3 19.7 43.1 1.6 3.4 3.4 6.0 7.81	A'INC	When 37 005. Finites the colour of the colou	1.4 3.6 52.8 .4 1.7 1.7 1.6 1.7	. 2 2.6 7.6 60.0 .1 1.1 1.1 5.9 2.3	, 4 4.5 9.9 37.1 .1 1.4 1.4 8.2 2.6	2,5 21,6 14,6 .7 3,1 3,1 3,1	.2 2.4 32.0 5.6 8.2 11.1 11.19	.2 3,2 27,4 6,2 14,8 17.0 17.0 .1 .55	.1 2.0 14,3 13,6 10.8 14,2 14,2 ,9	.1 .5 4,7 28,8 2,7 5,1 5.1 5.1 .1 1.6	2.4 15.2 28.2 4.7 6.8 6.8 2.0 1.5

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

McCOY AFB, ORLANDO, FLORIDA Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	9.5	3.91	23.3	8.0	4.8	4.1	4:5	5.3	5.6	
	Dust (Blowing and/or Suspended)	;		1	-	į	ł	-	{	-	
	Blowing Snow	1	1	i	-	1	į	i	į	1	
	Smoke and/or Haze	3.9	£.3	6.2	4.5	3.7	3.0	3.2	3.6	5.3	
	Fog	6.1	13.4	18.5	5.9	1.2	1.2	1.5	1.8	%.8	
	Total Occurrences of Precipitation	4.6	0.4	4.4	5.0	7.5	8.7	7.2	6.1	5.9	
	Tr v H		į	ł	į	}	1	1	1		
S.R	Snow and/or 51eet		i	ì	i	;	-	;	1	1	
CTOBER	To-base miss Rainserff Freezing Drizzerf	-	1	į	į	į	i	;	į	ļ	
00	elszin: ro\bns nish	4.6	·.0	.# .#	5.0	7.5	8.7	7.2	6.1	5.9	
şne	Thunder (With or Withor) Precipitation)	ļ	ď	٦:	٦:	٠.	1.8	6.	₫.	٠.	
	Cloud Cover 13/10	6.69	59.3	45.8	38.5	52.0	37.4	6.4	4.55	45.0	
JO,	Alsibilities < Mi Ceilings < MOUO Pt and/	12.7	80.0	34.6	8.5	24.7	16.1	12.8	6.7	17.5	
	Ceilings <2000 Ft and,	6.4	0.01	12.9	9.0	5.8	4.5	9.4	3.6	6.9	
40	Cellings <200 Ft and/o	٠.	2.4	3.6	į	۲.	æ	i	СŅ	ō,	
1	Number of Observations	1,717	1,718	1,716	3,716	1,719	1,719	717,1	1,714	13,736	
	Hours	00-05	03-05	90-90	09-11	12-14	15-17	18-20	21-23	A21 Hours	
ı	To secretarized [afof] misiv of amoid-united	5.7	13.5	16.6	3.1	1.6	1.8	1.5	5.6	5. B	
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SEP	Alasirt vo\6na nia8	4.	3.7	3.9	5.3	11.8	14.5	13.2	7.7	6.1	
įno	Thunder (With or With Trecipitation)	αį	į	ď	†	6:5	6.1	4,3	1.5	1.9	
	Cloud Cover 13/10	50.6	55.2	35.9	17.0	9.7	12.4	9.6	37.6	89.9	
40/	Dom 19 1704's amolifed IM 3- selbilidialV	10.3	15.1	8	26.5	37.8	23.5	14.6	10°.4	83	
	bne #9 0000's agnitleD jM g: neittlidialV	5.5	8.1	12.0	4.7	3.8	4.4	3.6	3.9	6.1	
10	Abna 14 700° saniile0 JM 941° seidliidisiV	~.	17	1.5	į	Ċ.	٦:	į		- ₹.	
14	not have of the radial	1,710	1,709	1,710	1,710	1,709	1,709	1,709	1,710	13,676	
	Hours	80-00	33-05	96-68	29-13	12-17	25-27	38-85	21-25	A.:.	

	Hell		ł	Ì	ì	i	į	i	į		
BER	Snow and/or Sleet		i	1	į	i	i	į	1	ŀ	
ECEMBER	Freezing Bain and/or Freezing Drizzle	1	:	1	į	1	;	1	1	}	
DE	Main and/or Drizzle	6.4	5.5	6.4	6.4	4.4	4.4	£.3	7.	t- #	
γno	Thunder (With or With freelpitatiqisər)	۲.		۲.	5.	٦.	٦.	۲.	Ġ	7	
	Cloud Cover 53/10	55.9	54.1	45.9	39.3	æ.3	36.3	47.8	4.45	45.6	
	Ceilings <4000 Ft and Weilities <6 Mi	25.5	8	37.3	24.3	8	14.2	7.00	14.7	22.0	
10/	im E> sanilial im E> salitilidisiV	0.41	8	24.5	13.5	7.4	4.2	r- .≠	7.7	32.0	
10	Veillings *POO Pt amblid TM S/I> meltilifialV	5.2	8.3	9.3	1.3	į	۲:	7	1.7	3.5	
9	појамите об То тэбший	1,581	1,581	1,581	1,581	1,581	1,580	1,580	1,581	379,546	
	ijorka	00-05	63-05	96-96	29-11	12-17	15-17	18-20	21-23	A11 Hours	
и	in seascerrood laioT ciriv o: smoid-warfado	9:21	89	89.3	9.01	3.7	3.5	3.6	5.4	17.71	
	Dust (Flowing and/or Suspended)	1	ł	-	į	1	ļ	į	1	į	
	Mowing Snow	ł	ł	-	į	į	Ì	1	1	1	
	esel rolban skom?	3.5	4.3	6.2	5.5	2.8	3.1	2.7	2.7		
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	Total Occurrences of Frecipitation	3.1	3.5	3.1	3.1	ું હ	ို	3.6	3.6	3.5	
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2 N	sizzind no/bne nlaH	3.1	3.5	3.1	3.1	2.¢	3.0	3.6	3.6	3.5	
ino	Thunder (With or With Precipitation)	7:	}	į	-	-	ςi	-†.	4	۲.	
	Cloud Cover 13/10	58.4	\$6.5	46.5	6.9	33.5	39.7	54.3	58.1	5.64	
.to/	Das 74 0000 Pt and im 3> 2=111fidialV	18.9	79.7	33.8	8	13.4	11.9	10.4	ц.3	19.1	
	bre 14 0000 Ft and JM go netititidiaty	10.6	17.4	83	12.3	5.5	3.8	9.4	5.9	10.3	
10,	Cellings <200 Ft and/ Visibilities <1/2 Mi	1.7	5.4	7.5	.5	1	}	1	÷	1.9	
а	иојзамтвабо То тэфший Вишћет об	1,618	1,620	1,620	1,620	1,620	1,620	1,620	3,68	12,958	
	Hours	00-05	63-63	90-90	11-60	75-77	52-53	18-20	21-23	Att	

Total Occurrences of Obstructions to Vision

Total Occurrences of Precipitation 6.

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5.9 3.9 5.7

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Obstructions to Viston	5
Тобяд Оссинтенсев от	10.5
Tolbus gnivois Suspended)	o.
Blowing Snow	Ì
Smoke and/or Haze	4:7
Pog	4.9
Total Occurrences of Precipitation	5.5
T # WH	ç.
guon sug/or greet	ę
N To\bean niest gotseever D elssing Brissers	į
← *ixxix0 To\bas dis8	5.5
Thunder (With or Without Freelpitation)	1.6
Cloud Cover 23/10	36.5
roldna 34 0004, egnilish iM 3- saitilidisiV	8
nolans #3 000% sgalfiel. IM Ex neithilidisiV	7.9
mo\bum_FR 000≥ manilis9 M S\l> e=ililidisiV	1.2
Rumber of Observations	55,854
мапок	All Hours 155,854

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

McCOY AFB, ORLANDO, FLORIDA WIND ROSES

	Mean	Byeed			7.0	9		Mens	peedg		7.0	8
		Tote1	ಳಳುದ್ದಾರು ಇತ್ತು ಇತ್ತು ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ ಕ್ರಾಪ್ತಿ	9.6	100.0	11856			Tote1	でしょうしょう かんかん かんしゅう ちゅう かんしゅう ちゅう ちゅう ちゅう ちゅう ちゅう ちゅう ちゅう ちゅう しゅう ちゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう し	0.001	12239
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		48-55				OBSERVA			48-55			OBSERVA
		11-14				100 Miles			b)-47			PO 1828
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FEBRUARY	Speed in Knots	22-27	ন্ত বৃত্তন্ন্ন্ত্য়ন্ত্র		9.		APRIL	Speed in Knote	25-27	0 000000000000000	£,	
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		11-16	4		15.2				97-11	442000 - 444	16.0	
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	Henn	pa-de			6.7		1	Mean	Speed	######################################	4.0	9
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		18-55				OPGEVA			148-55			OBSERVA
		74-14				DOTAL RUMBER OF ORGENVATIONS			74-14			TOTAL NUMBER OF ORSERVATIONS
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ARY	Knots	28-33	ó		o.		Ħ	Knots	28-33	ć.	4	
JANUARY	Speed to Knots	22-21	6666446		c,		MARCH	Speed in Knots	22-27	60 6 6066466	~	
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		11-16	4 666664464646000		14.4				11-16	ىر ئىققۇغۇندىن قاسىغان تىقىق داخىق	9.91	
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McCOY AFB, ORLANDO, FLORIDA WIND ROSES

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	3	2.5	**************************************	5.8		# 15 M	എന്ന് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ് സ്വാഹ്	9
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	See See See See See See See See See See	Anna 350 (3-6- 7-44)			-	90° 669°		0.001
		3-44 Start 48-50 (36 Total)			TOTAL NUMBER OF ORSEVATIONS 13119			8
МАҮ		Anna 350 (3-6- 7-44)			-			DOO.O. 100.0 OR ORGENVATIONS TOTAL NAMED OF ORGENVATIONS
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МАУ		28-52 78-55 34-45 54-47 48-52 78-55		3.000.	-	JULY Speed in Lincols Scare (1-10) Seed (1-10) (4-10) (45 (1-10))		.1 .0 .00.1
MAY		17-51 22-27 25-33 3-4-5 41-47 45-50 55-52 Total		1.1 .1 106.6	-	JULY Speed to takes 1742 - 28-27 28-39 28-39 38-40 48-79 48-79 48-70-86-		. 7 . 1 . 0 . 100.6 . 7 1
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McCOY AFB, ORLANDO, FLORIDA

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ROSES	
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ER	hots		o o oo oooo				e ton	28-33	9 9 9	Ę4
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<u> </u>	N NNE ENE ENE ESSE SSS SS S	TOT

COLUMBUS AFB COLUMBUS, MISSISSIPPI (Lat. 33°38'N, Long. 38°27'W, Elev. 214 ft.)

Located nine miles north of Columbus, Mississippi, this airfield lies in the valley of the Tombigee River. Terrain adjacent to the field is quite flat and is occupied primarily by cotton fields and scrub oak.

Weather conditions at this station reflect the humid subtropical nature of the area's climate, a climate which is largely controlled by cyclonic activity from October through April with the balance of the year being controlled by radational heating and cooling of a moist, conditionally unstable atmosphere.

Thundershowers are most numerous during July, however, hail occurs most frequently with squall line thunderstorms in late winter and early spring. In summer months, the development of cumulus clouds generally begin about 1000 hours local time and reach maximum development between 1400 and 1600 hours local time. During the months, May through September, when convectional heating and radiational cooling are the dominant weather controls, sky cover varies directly with the development and dissipation of the cumuliform clouds.

Based on an all hours category, low ceilings and visibilities occur with greater frequency during the winter months, however, due to a frequent occurrence of radiation fog in late summer and early fall, low ceilings and visibilities are still a problem in the early morning hours.

A chemical plant six miles north of the base is the one major source of air pollution in the area, however, only in the cases of light north-

COLUMBUS AFB (Cont'd.)

erly winds and low level inversions does the smoke lower visibilities below one mile.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from March 1942-February 1946, April-June 1946 and November 1958-July 1967; with the exception of cloud cover for which data are not available prior to 1946.

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Ţ.	mperat	Temperature (°F)	F)						
	Jan.	Feb.	Mar.	Apr.	May		June July Aug.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	52.7	58.1		64.4 75.5	83.0	89.2	89.2 91.3	91.0		85.4 76.5 64.9	6,49	52.3	73.9
Mean	43.1		54.2	64.3	71.9	0.67	47.9 54.2 64.3 71.9 79.0 81.1 80.9 74.9 63.7	80.9	74.9	63.7	53.5	43.2	63.4
Minimum	33.0		43.7	52.7	4.09	68.4	37.3 43.7 52.7 60.4 68.4 70.6 70.5 64.0 50.7 41.6 33.8	70.5	0.49	50.7	41.6	33.8	52.4
			PC,	ecord	Temper	ature	Record Temperature Extremes	ន					
Maximum	81	₹	87	8	%	104	104 104 106	106	98	91	48	79	
Minimum	н	10	15 P	32 39 49 Period of Record:	39 49 of Record:		58 57 36 1942-1946, 1958-1965	57 946, 19	36 958-19	30	ક્ષ	m	
MONTHLY MEANS				Preci	pitati	Precipitation (Inches)	ches)						
Precipitation	4.65	5.45	94.9	5.07	3.87	2.93	4.65 5.42 6.46 5.07 3.87 2.93 4.98 2.88	2.88	2.48	2.46	2.48 2.46 4.09 5.30	5.30	50.56 '
Snowfall* 1.2 .2 (*Hail was included in Snowfall Summary prior to January 1956)	1.2 .2 uded in Snowfall to January 1956)	.2 Snowfu ry 195	Ħ	o. eriod	.0 of Rec	ord:	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 Period of Record: Precipitation 1942-1946, 1958-1965 Snowfall 1946, 1958-1965	.0 itatio	0. 1961 19461	2-1946 5, 1958	.0 1958- 8-1965	2.2 -1965	3.5

Surface Winds (Knots) - Record Peak Gusts

Wind Direction	3	×		SSE	3	ഗ		MINIM	NE	MS.	떬
Velocity		38	51	94 24 24	747	71 32		3	35	3	2 †
			_	Period	of Rec	1959-1	965				

Maximum and/or Minimum Anemometer Height: 15 feet 04/60; 13 feet 04/59

Percentage Frequencies of Occurrence of Specified Weather Conditions

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Tied		Precipitation intel Occurrences of Total Occurrence		90 _d		17.3	21.5	5.5	8,1	8.7	9.01	4.01	12.7			Bog.	9.3	17.3	5.3	5.9	1.0	1.7	3.4	4.5	6'9
T1982				Total Occurrences of Precipitation					0.5	4.5	25		'n		To seconor.	Total Occur Precipitati	6.7	cu		5.7	4.1	5.9	7.7	7.4	9.9
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

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Percentage Frequencies of Occurrence of Specified Weather Conditions

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MACHEMEN SOON AND MACHEMEN SOO	25 19.1 52.2 .9 4.2 4.2 9.6 14.0 22	12.7 35.0 42.5 1.2 5.7 5.7 22.2 18.4 34	13.2 34.1 30.5 1.3 6.1 6.1 14.5 19.8 31	23.1 29.1 1.5 5.7 5.7 2.0 10.02	22.4 22.8 2.0 4.1 4.1 4.1	2.3 15.4 27.7 2.2 4.51 4.5 .3 4.1	2.6 12.7 39.6 3.3 5.2 5.2 1.2 5.4	12.9 49.3 2.1 4.5 4.5 2.8 10.3	.1 6.9 21.5 36.7 1.8 5.0 0 5.0 6.5 10.8 0 16.	THE CONTRACTOR OF THE CANADA CONTRACT OF THE	2.5 10.4 44.9 1.1 1.8 1.0 6.6 5.0 13	10.5 27.6 39.2 1.7 2.9 2.0 23.1 13.8 32.	12.4 29.4 29.6 1.5 3.1 3.1 14.2 19.7	19.6 24.7 1.2 3.5 3.5 1.0 7.6	2.9 17.9 15.5 6.0 6.2 1 6.2 .3 3.22	11.9 21.8 7.6 6.11 8.1 .3 2.2	2.2 9.4 19.4 6.0 6.9 1 6.9 .7 3.7	1.2 6.6 30.3 2.6 4.1 1.1 2.1 5.9	5.4 16.9 28.2 3.5 4.6 5. 4.6 6.3 8.6

... indicates that the condition has occurred exactly 0.00 percent of the time. $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences :: Total Occurrences of Sicon	25.1	25.3	45.1	8	7.4	8.3	12.8	15.1	·. 8	1	currences "f	DO LeroT CountredO	56,6	30.5	37.4	35.6	23.2	3.6	S. 5	26.4	27.7
	To\bas anivoid) faud Biomical	}	ł	ì	1	į	۲.	αį	1	٥.		ao/bae Baiwo d)	apmadsng (B) ishq	!	1	ļ	}	1		:	1	
	Blowing Snow	}	1	:	:	:		}		į		Acus	Blowing	!	!	ł	;	1	i	1	1	į
	Sample and/or Take	11.9	13.0	19.4	14.6	5.3	0.9	9.4	10.3	11.2		staH To\b	по вист	6.41	16.7	19.5	18.5	13.0	11.0	13.2	14.7	15.2
	3 04	11.11	24.2	7.15	6.0	5,2	2.3	3.4	0.9	10.8			No.	6.41	10.3	24.2	16.3	11.8	6.01	12.6	24.0	15.4
	To securrences of Recipitation	5.1	7.1	ئ. در	4.2	4.5	3.1	3.3	4.3	4.6		to sacrateros noita	Total Oc	11.5	15.7	13.8	12,6	13.8	15.5	15.7	11.5	12.6
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3.8	19912 Tolbine wond	į	į	ì	}	:	:	1	:	i	ER	tor Sleet	рив мон5	1.2	1.3	ò	۲.	.7	1.1	1.0	1.1	1.0
OCTOBER	Preezing Pain and/or Freezing Orizote	:	1		1	1	:	1	}	į	CEMB	Tribos nies Prizzie	Buizeer?	q	ņ	<i>4</i> .	÷		į	i	(ų	ú
8	SizzinG mo/brue miss	5.1	72	7.5	4.2	2.	3.7	3.3	£.3	9.4	DEC	922222 107	pas siss	10.3	11.2	12.7	11.8	13.2	11.5	11.7	10.7	11.6
28	onsië as drië) ambund Freetpitatinni	٦.	ui.		Ę,	۲:	₹.	ı,	ď	ú	277	onrik go drik) (acise	Tebnid?	٦.	C.	cų.	-	ů.	ç.	-7.	٦.	ď.
	Cross Cover 13/10	64.8	4.49	51.5	51.7	47.8	51.6	58.4	64.1	56.8		Mek =3/10	Cjond Co.	6.0%	36.9	33.1	34.2	0.05	30.4	34.1	38.8	34.7
Jr.	Cettings < COOC Ft and^^ Visititititity	22.9	35.0	46.2	4.75	18.0	13.5	13.7	16.8	4.49	J.c.	<4500 Pt and/	egailieiv	41.1	1.6.7	52.4	6.94	40.7	35.6	36.9	39.7	42.5
45	Nether of Society against the sail	6.1	14.7	21.2	13.6	6.2	5.0	4.4	5.7	10.1	41,	TENE PE and:	sfullely.	23.6	39.1	34.1	30.5	28.1	21.7	25.2	4.65	36.3
1	oving 25 July 85 Liles IM S\i> meltilidialV	1.0	5.3	1.9	7.	1	7.	1	-7.	7.	1:	:\bne ff 900> IM 3\I> 041#	AFSEPTIF	1.6	3:5	5.1	1.9	ę	cv.	۲.	6.1	1.9
	gnuper of Chaervations	1,115	1,116	1,114	911,116	1,116	1,116	1,116	1,114	8,923		ondidawimedO l	C redamik	1,209	1,309	1,209	1,209	602'1	602,1	1,309	1,309	9,672
	ватор	00-05	69-65	80-90	09-11	15-21	15-17	18-20	57-53	All			Hours	20-00	03-05	BC=30	11-60	12-14	15-17	18-20	21-23	All Hours
													1									
	Total Courrences (f noisiv of emoifurated)	18.0	32.8	9.04	11.4	6.4	5.8	9.3	9.11	16.8	- 1	lo secnoration tolsiv of amoi	Cotal Co JourtedO	25.3	31.5	41.1	24.8	13.8	14.0	17.4	8.0	23.6
	nolbns gnivotE) Jeud (bebnageu2) 10 secnerrupa0 LefoT noleiv of encitoursed0				11.4	6.4	9.6	9.3	6-т		- 1	lo separatio	Suspende		31.5	41.1			.2 14.0	17.4	6.0e ····	
	Suspended/				11.4	6.4	5.8	9.3	9.11	197	- 1	To section tolks	Suspende				7₹	13			6.02	23.
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	Source and to the control of the con	13.2 6.0 18.	26.9 9.1 32.	29.0 16.0 40.	3.9 8.0 11.	1.9 3.1	2.4 3.4	6 4,4 5,2 9.	7.2 6.9	1 11.1 7.1 16.	.,	aseH nota waseH nota wase wase wase wase wase wase wase was	Eck and Smoke and Smoke and Smoke and Smoke and Smoke and Smoke and Smoke and Smoke and Smoke and Smoke Smok	5 13.2 14.4 25.	18.8 17.9	6 27.7 22.2	9.3 16.45 24.	4.1 10.21 13.	3.5 10.6 ,2	5.5 12.8	7.3 14.6	11,2 14,91 23.
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SEPTEMBER	contil to tital abundation of tital abundation	8 ,4 3,3 3,3 13,2 6,0 18,	.9 4,4 32.	.4 5.6 16.0 16.0 16.0 160.	.2 4.6 4.6 3.9 8.0 11.	1,8 6,61 6,6 1.9 3.1	1.9 5.9 5.9 7.4 3.4	2.3 6.6 6.6 4.4 5.2 9.	h.0 7.2 6.0 h.0	36 1.1 11.1 7.1 16.	S NOVEMBER	(unjago to dola)	Cores on the control of the control	2 ,6 8,5 8,5 13,2 14,4 25.	8 8 5.7 18.8 17.9 5.	.3 8.84 8.6 27.7 22.2	5 ,1 7,2 ,2 7,2 9,3 16,4 ,5 24,	2 4.9 4.1 10.2 5	0 .1 5.4 5.4 3.5 10.62	.6 6.2 6.2 5.5 12.8	.5 6.6 6.6 7.3 14.6 5.5	.4 6.91 6.9 11.2 14.91 23.
SEPTEMBER	Cloud Cover 53/10 Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and/or Frience Sale and Frience	59.8 .4 3.3 3.3 13.2 6.0 18.	55.8 4,4 26.9 9,1 32.	43.0 .4 5.6 5.6 29.0 16.0 140.	40.1 4.6 3.9 8.0 11.	4 26.3 1.8 6.61 6.6 1.9 3.1	32.3 1.9 5.9 5.9 2.4 3.4	41,3 2,3 6.6 6.6 4,4 5,2 9.	54.0 .6 0.0 h.0 7.2 6.0	.8 26,2 ht, 0 1,1 5,1 0 5,1 11,1 7,1 16,	NOVEMBER	Office of Mit office or Mitch office o	COTABON CONTRACTOR CON	.6 49.2 ,6 8.5 6.5 13.2 14.4 25.	38.1 42.2 .6 7.78 7.7 18.8 17.9	.4 34.2 .3 8.8 4 8.6 27.7 22.2	35.2 31.5 .1 7.22 7.2 9.3 16.45 24.	32.2 4,9 4,9 4,1 10.2 113.	23.1 36.0 .1 5.4 5.4 3.5 10.62	14.7 .6 6.2 6.2 5.5 12.8	47.7 .5 6.6 6.6 7.3 14.6	3 31.4 39.7 .4 6.91 6.9 11.2 14.91 23.
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A SEPTEMBER	Willings - COOL Fame - Coulings - COOL - Sand - Cool - Sand - Cool - Sand - Cool - Sand - Cool - Coo	.2 10.0 21.3 59.8 .4 3.3 3.3 13.2 6.0 18.	1.3 16.0 33.1 55.8 .9 4.4 32.	1.9 22.7 42.7 43.0 .4 5.6 40.	16.9 29.7 40.1 ,2 4,6 4,6 3.9 8.0 11.	10,4 30,4 26,3 1,6 6,61 6,6 1,9 3.1	6.9 19.6 32.3 1.9 5.9 5.9 2.4 3.4	5.5 16.6 41.3 2.3 6.6 6.6 4.4 5.2 9.	.1 6.1 16.5 54.0 .6 4.0 1.3 7.2 6.9	7.1 1.11 1.0 1.2 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.	NOVEMBER	(Accepted and Control of Control	COTABON CONTRACT CONTRAC	8,0 14,5 30,6 49,2 .6 8,5 6,5 13.2 14,4 25.	3.2 18.9 38.1 42.2 .6 7.72 7.7 18.8 17.9	4,1 28.2 48.4 34.2 .3 8.8 ,4 8.5 27.7 22.2	.7 20.3 35.2 31.5 .1 7.22 7.2 9.3 16.45 24.	.1 13. 10.0 32.2 4.9 9.4. 10.2 13.1	9.3 23.1 36.0 .1 5.4 5.4 3.5 10.62	.3 6.9 23.0 44.7 .6 6.2 6.2 5.5 12.8	.6 10.1 25.0 47.7 .5 6.6 6.6 7.3 14.6	1.4 15.3 31.4 39.7 .4 6.91 6.9 11.2 14.91 23.
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COLUMBUS AFB, COLUMBUS, MISSISSIPPI WIND ROSES

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COLUMBUS AFB, COLUMBUS, MISSISSIPPI WIND ROSES

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WIND ROSES

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WHITEMAN AFB KNOB NOSTER, MISSOURI (Lat. 38°44'N, Long. 93°34'W, Elev. 869 ft.)

Whiteman AFB is located in the rolling hills of western Missouri and lies about 65 miles southeast of Kansas City. Within a 75 mile radius of the base, terrain varies from 700 to 1400 feet with the higher elevations being to the south and west.

Climate in the Whiteman area is of a continental nature with its large change in temperatures and air masses from summer to winter. During the summer months maritime tropical air masses characterize western Missouri weather, while dry continental air is predominate in the winter. Violent weather conditions such as squall lines and their associated phenomena of hail, strong winds and tornadoes, occur most frequently in the spring.

Flying weather conditions are best during the late summer and early fall when cyclonic activity is at a minimum and flying weather restrictions are limited primarily to thundershowers, haze and radiation fog.

Industrial air pollution is no problem in the Whiteman area since the base is located far from any large population centers. Only when northwesterly winds are accompanied by a low level inversion does pollution reduce visibility. Rarely do these conditions reduce visibilities below five miles.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from December 1942-September 1946 and June 1954-August 1967; with the exception of cloud cover for which data are not available prior to 1946.

WHITEMAN AFB KNOB NOSTER, MISSOURI

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Дe	Temperature (°F)	o) eun	F)						
	Jan. F	Feb.	Mar.	Apr.	May	June	July	Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	38.4	43.4	52.2	65.6	75.4	82.8	88.4	87.7	80.3	69.7	54.5	38.4 43.4 52.2 65.6 75.4 82.8 88.4 87.7 80.3 69.7 54.5 40.5	6.49
Mean	29.6	34.3	42.7	55.5	65.7	73.7	78.5	4.77	2.69	59.0	45.0	29.6 34.3 42.7 55.5 65.7 73.7 78.5 77.4 69.7 59.0 45.0 32.5	55.3
Minimum	20.4	6.42	32.7	45.1	55.8	64.2	68.2	6.99	58.7	6.74	35.0	20.4 24.9 32.7 45.1 55.8 64.2 68.2 66.9 58.7 47.9 35.0 24.1	45.4
			æ	ecord	Temper	ature	Record Temperature Extremes	9 0					
Maximum	7.7	92		92	46	102	901	90 95 94 105 106 106	100 94	76	8	69	
Minimum	1	7-	ر. ب	22 eriod	32 of Rec	41 ord:	52 1942-1	-5 22 32 41 52 48 38 2 Period of Record: 1942-1946, 1954-1966	38 954-19	95.26	8- +7	φ.	

Surface Winds (Knots) - Record Peak Gusts

Maximum and/or Minimum Anemometer Height: 75 feet 06/54; 13 feet 04/56

WHITEMAN AFB, KNOB NOSTER, MISSOURI

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	0.08	23.1	51.5	23.5	17.7	15.9	18.4	18.4	3.5	Total Occurrences of Obstructions to Vision	9.11	14.7	18.9	9.5	5.9	5.4	8.1	0.01	10.5
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	wond gaiwoff	9.	٠	٠.	۲.	5.	٠,	ci.	7:	è.	WORS BALWOIR	1		1		ł		1	ł	1
	Smoke and/or Haze	2,2	7.2	0.01	4.6	F.4	C.4	6.1	6.3	6.5	Smoke and/or Hate	7	3.2	6.4	2.7	1.4	4.1	2.5	3.3	8.8
	30 _d	13.3	15.9	17.9	15.7	12.3	11.2	12.1	12.5	13.9	Pog.	6.9	11.5	13.9	6.5	5.4	1.1	5.5	6.5	7.6
	To seconstrance is to a solution and the solution of the solut	14.7 L	8	13.8 Li	11.5 13	-	п.3	15.8 15	9	r-	To as a montant of free of protection	Q.	10.3	1.11	8.8	2.5	3.2	6.6	10.7	9.8
	ा ग ्न	17	41	7	1	Si .	7	77	12.	я :-	(Lant.	9	я !	а !	1	:	;	4.	31	o,
>-	Snow and/or Sleet	6.3	6.2	5.3	6.4	1.7	5.0	5.7	5.3	5.4	Snow and/or Sieet	ن :	9	1.0	- 1:	ε. :	; -₹	8.	ŗ	9.
FEBRUARY	Preezing Bain and/or Preezing Drizzle	3.6	9.0	1.5	÷:	9.	9.	0.	1.4	7	APRIL To-base miss saisser! Treesing bissis	;	;	;	į	ļ	;		į	1
FEBF	sizzird To\bna nisR	7.2 1	7.1	7.2	6.2	5.1	6.9	6.8	6.14	6.5	Sizzitd wo\bns nies	10,0	8.6	10.3	o.	9.4	7.8	9.5	5.01	9.3
	Thunder (With or Witho	.2	.1	۲.	9 1.	si.	.1.	,1 6	9 7.	٠:	Precipitation (Mich or Sthoot)	vo.	Q	1.8 10	1.2 8.	1.3 8	1.0 7	3.1	3.1 10	6.0.9
	Cloud Cover 53/10	45.3	43.9	٠.	~:	6,35	6	m,	43.3	cv.	Cloud Cover 53/10	.5 6.74	.7	0.	٦.	8	-	5	m	34.0 8
to	Cellings <4000 Pt and/	33.1 45	v,	.938.	33.5 31.	9	6	.3 37		.5 37	N 9> 8PTRITITITATION	9	, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	8	.3 27	.6 23	, 2k	ς.	.7 43.	
	IM E> saidilidialV	.8	,6 34	.2 36		R	8	8	.8 31.1	.7 32	THES costailistery	.9 23.	8	±, ∘.	e, e,	.7	25	а 2	5 21.7	7. 26.4
	Cellings <2000 Pt and/ Visibilities <1/2 Mi	8	3.0 23.	25	1 24.0	1.3 22.7	3.4	1.5 18.	1.7 17.8	.2 21.7	Visibilities <2/2 Wi Visibilities <2/2 Wi Cellings <2000 Ft and/or	1.3	91 0	1.2 18	.1 16.	.1 13.7	i :	.2 10.	.3 Ju.5	.6 13.7
	Number of Observations	6.			8					.5	Mumber of Observations Toldan Pt Med/or		ξ; ζ				87			
	•	2 1,436	5 1,440	8 1,438	1,440	1,439	7 1,438	0 1,140	3 1,140	11,513	and torrand to made a	1,530	1,529	3 1,530	1,530	1,530	1,529	1,530	3 1,530	8EZ'टा !
	глон	00-05	03-05	90-96	09-11	12-14	15-17	18-20	21-23	A11 Hours	ganog	60-00	03-05	90-90	09-17	12-14	15-17	18-20	21-33	All Hours
,	Total Occurrences of Obstructions to Vision	4,15	53.9	28.7	1.4.1	18.5	18.3	0.2	8.13	.3	Total Occurrences of Obstructions to Vision	0.71	8,05	5.2	18.3	15.1	11.3	13.7	9.91	6.91
1	Dust (Blowing and/or Suspended) Total Occurrences of Obstructions to Vision	21,4	23.9	.1 28.7	.1 24.1	18.5	18.3	22.0	21.8	.o.		.3 17.0	.1 20.8	25.5	.1 18.3	1.21 4.	.4 11.3	.2 13.7	9 16.8	.3 16.9
•	Suspended) Total Occurrences of	4,12 ···· 7.	.6 23.9	93		.7 18.5	1.0 18.3	1.2 22.0		8	Suspended) Total Occurrences of		8	.6 25.2					16.	
1	Dust (Blowing and/or Suspended)	į	1	.1 28.	۲.		:	22		٠. 83	Dust (Blowing and/or Suspended) Total Occurrences of	ú	.1.	-	7	4	₹.	ui	.9 16.	÷
,	Blowing Snow Blowing and/or Suspended)	7. 5.8	10.1 .6	12.6 .6 .1 28.	8,5 .6 .1	5.5	3 6.0 1.0	.7 9.6 1.2 22.	9.2 1.2 21.	.5. 8. 7.8 4.	Blowing Snow Buse (Blowing and/or Suspended) 10-620-17-80-05	7.7 .3 .3	7.8 .3 .1 20	9. 2.7	5.5 .7 .1	4. 6. 7.2	4, 5, 9,5	i.	7.5 .3 .9 16.	5.9 .3 .3
,	ivecipitation Smoke and/or Haze Subsended) Duzt (Blowing and/or Suppended) Total Occumination Total Occumination	13.6 8.5 .7	9. 1.01 С.И 1	18.7 12.6 .6 .1 28.	17.1 8.5 .6 .1	12.0 5.5 .7	12.3 6.0 1.0	12.7 9.6 1.2 22.	13.0 9.2 1.2 21.	.6 14.4 B.7 .8 .0 22.	Precipitation Saobs and/or Haze Blowing Show Blowing Show Supported: Supp	.1 9.2 7.7 .3 .3	13,4 7.8 .3 .1 20	9. 7.7 7.71	12.4 5.5 .7 .1	6,7 2.7 .3 .4	7.8 2.8 .2 .4	7.8 5.8 .1 .2	6.3 7.5 .3 .9 16.	4 10.7 5.9 .3 .3
,	Fog. Smoke and/or Haze Smoke and/or Haze Blowing Snow Dust (Blowing and/or Dust (Blowing and/or	7. 5.8	. 13.1 th.9 10.1 6.	12.6 .6 .1 28.	8,5 .6 .1	5.5	3 6.0 1.0	.7 9.6 1.2 22.	13.9 13.0 9.2 1.2 21.	14.4 8.7 .8 .0 22.	Fog. Smoke and/or Haze Smoke and/or Haze Duzt (Stowing End/or Duzt (Stow	. 14.1 9.2 7.7 .3 .3	7.8 .3 .1 20	9. 2.7	5.5 .7 .1	4. 6. 7.2	4, 5, 9,5	5.8 .1 .2	7.5 .3 .9 16.	10.7 5.9 .3 .3
	Total Scourrences of Precipitation pool group for and/or Haze Blowing and/or Haze Blowing and/or Duez (Blowing and Duez (Blowi	13.6 8.5 .7	9. 1.01 С.И 1	18.7 12.6 .6 .1 28.	17.1 8.5 .6 .1	12.0 5.5 .7	12.3 6.0 1.0	12.7 9.6 1.2 22.	13.0 9.2 1.2 21.	.6 14.4 B.7 .8 .0 22.	Prest Descriptions of Prest Descriptions of Salve analyst Haze Snow Part (Blowing Analyst Haze Snow Part (Blowing Snow Part (Bl	.1 9.2 7.7 .3 .3	13.9 13.4 7.8 .3 .1 20	9. 7.7 7.71	12.4 5.5 .7 .1	13.4 6.7 2.7 .3 .4	7.8 2.8 .2 .4	7.8 5.8 .1 .2	6.3 7.5 .3 .9 16.	.0 13.4 10.7 5.9 .3 .3
	Freedank Drizzie Snow and/or Sleet Hai! Snow and/or Sleet Post Scourrences of Booke and/or Haze Snow and/or Haze	15.8 13.6 8.5 .7	13.1 14.9 10.1 .6	85 1, 5, 7 12,5 7 12,6 28,	13.1 17.1 8.5 .6 .1	12.0 5.5 .7	.1 10.7 12.3 6.0 1.0	1 12.0 12.7 9.6 1.2 22.	7.3 13.9 13.0 9.2 1.2 21.	. 22 0. 8. 7.8 4.4 3.21 6.9	Tames and/or fleet To some mid-or fleet To some mid-or flate Soute and/or flate To some mid-or flate To s	. 14.1 9.2 7.7 .3 .3	05 1. 13.9 13.4 7.8 .3 .1 20	13.5 17.7 7.7 .6	3 14.0 12.4 5.5 .7 .1	.1 13.4 6.7 2.7 .3 .4	4. 2. 8.8 2.8 .4 .4	12.8 7.8 5.8 .1 .2	13.8 6.3 7.5 .3 .9 16.	13.4 10.7 5.9 .3 .3
JANUARY	Show and/or Sleet Mail Freelpitation Food Smoke and/or Hate Smoke and/or Hate Smoke and/or Hate Smoke and/or Hate Smoke and/or Hate Smoke and/or Hate Total (Stoutne and/or Hate)	7.1 15.8 13.6 8.5 .7	7.5 13.1 14.9 10.1	6.5 13.7 10.7 12.6 .6 .1 28	8.0 13.1 17.1 8.5 .6 .1	12.0 5.5 .7	5.4 .1 10.7 12.3 6.0 1.0	6.1 12.0 12.7 9.6 1.2 22.	13.9 13.0 9.2 1.2 21.	22 0. 9. 7.8 4.4 6.7 12.0 22.	Tiest Johns and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and/or Hard Smoke and	5.4 14.1 9.2 7.7 .3 .3	5.4 .1 13.9 13.4 7.8 .3 .1 20	5.6 13.5 17.7 7.7 .6	5.3 14.0 12.4 5.5 .7 .1	5.5 ,1 13.4 6.7 2.7 ,3 .4	4.6 12.3 7.8 2.8 .2 .4	4.9 12.2 7.8 5.8 .1 .2	5.5 13.8 6.3 7.5 .3 .9 16.	.5 5.3 .0 13.4 10.7 5.9 .3 .3
JANUARY	Freezing Bain and/or Freezing Drizzle Smow and/or Sleet Smow and/or Sleet Freezing Smow Freezing Smow Blowing Smow Blowing Smow Blowing Smow Smoke and/or Haze Smoke and/or Ha	5.1 1.2 7.4 15.2 13.6 8.5 .7	6 13.1 14.9 10.1 6	1,6 6.5 13.7 18.7 12.6 .6 .3 28.	8.0 13.1 17.1 8.5 .6 .1	7.1 11.0 12.0 5.5	.9 5.4 .1 10.7 12.3 6.0 1.0 4.2	1.5 6.1 12.0 12.7 9.6 1.2 22.	1,8 7,3 13,9 13,0 9,2 1,2 21.	. 22 0. 8. 7.8 4.4 3.21 6.9	A A B Preesting Ballon and to the mind of the to th	.9 5.4 14.1 9.2 7.7 .3 .3	.6 5.4 .1 13.9 13.4 7.8 .3 .1 20	6 5.6 13.5 17.7 7.7 6	.5 5.3 14.0 12.4 5.5 .7 .1	.3 5.5 .1 13.4 6.7 2.7 .3 .4	.5 4.6 12.3 7.8 2.8 .2 .4	. 4 4,9 12.2 7.8 5.8 .1 .2	.4 5.5 13.8 8.3 7.5 .3 .9 16.	5.3 .0 13.4 to.7 5.9 .3 .3
JANUARY	Precipitation) Saiz and/or Drizzle Smoke and/or Sleet Foreing Drizzle Smoke and/or Sleet Foreing Smoke Foreing Smoke Smoke and/or Haze Smo	7. 3. 5.1 1.2 7.1 15.2 13.6 8.5 .7	.1 4.7 1.8 7.5 13.1 14.9 10.1 .6	.1 5.9 1.6 6.5 13.7 18.7 12.6 .4 28.	1. 6. 6.9 8.0 13.1 17.1 8.5 4.4 1.	3.7 ,4 7.1 11.0 12.0 5.5	0.1 0.3 6.01 1.0.7 12.3 6.0 1.0 I.	.1 4.8 1.5 6.1 12.0 12.7 9.6 1.2 22.	.2 .3 5.3 1.8 7.3 13.9 13.0 9.2 1.2 21.		MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	5 1.2 8.3 .9 5.4 14.1 9.2 7.7 .3 .3	1.5 8.2 .6 5.4 .1 13.9 13.4 7.8 .3 .1 20	.6 7.7 7.77 1.6 .6 5.6 13.5 17.7 7.7 .6	1, 7, 5,5 4,21 0,41 1,5 5,5 4,	.4 6.2 ,3 5.5 ,1 13.4 6.7 2.7 ,3 .4	4, 2, 8,8 2,8 7.8 2,8 2,8 4,6	2. 1. 9.8 9.7 12.2 1.0 5.8 1.1	.1.8 8.1 .4 5.5 13.8 8.3 7.5 .3 .9 16.	. 6. 6.9 7.01 J.E1 0. 5.9 5. 9.7 9.
JANUARY	Thereter (With or Without Precipitation) Main and/or Drittle Freezing Bair and/or Prittle freezing Britzle freezing	7. 51.8 .3 5.1 1.2 7.1 15.6 13.6 8.5 .7	49.6 .1 4.7 1.2 7.5 13.1 10.0 10.1 6.	40.2 1. 3. 3.21 7.51 7.61 13.7 12.6 1. 2.00	1. 6. 6.9 1.71 1.51 1.9 8.0 1.1 1.7.1 1.5.5	32.2 7. 7.4 7.1 11.0 12.0 5.5 3.7	33.6 .1 4.7 .9 5.4 .1 10.7 12.3 6.0 1.0	39.7 .1 4.8 1.5 6.1 12.0 12.7 9.6 1.2 22.	6 46,2 .3 5.3 1.8 7.3 13.9 13.0 9.2 1.2 21.	1 ho.7 .1 4.8 1.2 6.9 12.6 14.4 8.7 .8 .0 22.	Precipite of Visious Precipites of Visious AAA Abin and Abin and Abin and Abin and Abin and Abin and Abin Abin Abin Abin Abin Abin Abin Abin	2 45.5 1.2 8.3 .9 5.4 14.1 9.2 7.7 .3 .3	. 200 L. E. 9.7 4.8. 1 13.9 13.4 7.8 .3 .1 200	2 11.8 .6 7.5 .6 5.6 13.5 17.7 7.7 .6	26.7 .4 8.6 .5 5.3 14.0 12.4 5.5 .7 .1	23.4 .4 6.2 .3 5.5 .1 13.4 6.7 2.7 .3 .4	21.6 .6 7.5 .5 4.6 12.3 7.8 2.8 .2 .4	8 33.3 1.1 7.0 .4 4.9 12.2 7.8 5.8 .1 .2	.9 t.6 6.18 6.1 23.6 6.3 7.5 .3 .9 16.	33.8 .9 7.9 .5 5.3 .0 13.4 to.7 5.9 .3 .3
JANUARY	The Scourrence of MI page 23/10 Cloud Cover 23/10 Freeighteation) Freeighteating Drittle Transported Sand and/or Steel Pression The Sand and/or Steel Pression Total Scourrences of Total Scourrences	0 32.7 51.8 .3 5.1 1.2 7.1 15.2 13.6 8.5 .7	2 34,3 49,6 .1 4,7 1.2 7.5 13.1 14.9 10.1 .6	40.3 40.2 .1 5.9 1.6 6.5 13.7 12.7 12.6 .1 2.8	1. 6. 2.1 17.1 13.1 13.1 17.1 8.5	33.5 32.2 3.7 ,4 7.1 11.0 12.0 5.5	30.0 33.6 .1 4.7 .9 5.4 .1 10.7 12.3 6.0 1.0	9 30.9 39.7 .1 4.8 1.5 6.1 12.0 12.7 9.6 1.2 22.	7 32.6 46.2 .3 5.3 1.8 7.3 13.9 13.0 9.2 1.2 21.	.0 34.1 h0.7 .1 4.8 1.2 6.9 9.41.4 8.7 .8 .0 222	MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	0 32.2 45.5 1.2 8.3 .9 5.4 14.1 9.2 7.7 .3 .3	0 35.1 44.7 1.5 8.2 .6 5.4 .1 13.9 13.4 7.8 .3 .1 20	39.2 31.8 .6 7.6 .6 5.6 13.5 17.7 7.7 .6	36.5 26.7 .4 8.6 .5 5.3 14.0 12.4 5.5 .7 .1	36.2 23.4 .4 6.2 .3 5.5 .1 13.4 6.7 2.7 .3 .4	31.5 21.6 .6 7.5 .5 4.6 12.3 7.8 2.8 .2 .4	28.8 33.3 1.1 7.0 4 4.9 12.2 7.8 5.8 .1 .2	2 30.7 43.4 1.8 8.1 .4 5.5 13.8 6.3 7.5 .3 .9 16.	4 33.6 33.8 .9 7.9 .5 5.3 .0 13.4 10.7 5.9 .3 .3
or JANUARY	Suppression of Mittings and Visibilities of Mit Mittings which of Mittings which of Mittings which of Mittings which of Mittings which of Mittings of	32.7 51.8 .3 5.1 1.2 7.1 15.2 13.6 8.5 .7	34.3 49.6 .1 4.7 1.2 7.5 3.1 1.9 10.1	40.2 1. 3. 3.21 7.51 7.61 13.7 12.6 1. 2.00	25.1 36.4 38.7 1.1 4.4 , 9 8.0 13.1 17.1 8.5	32.2 7. 7.4 7.1 11.0 12.0 5.5 3.7	33.6 .1 4.7 .9 5.4 .1 10.7 12.3 6.0 1.0	30.9 39.7 .1 4.8 1.5 6.1 12.0 12.7 9.6 1.2 22.	32.6 46.2 .3 5.3 1.8 7.3 13.9 13.0 9.2 1.2 21.	22.0 34.1 h0.7 .1 4.8 1.2 6.9 12.6 14.4 8.7 .8 .0 22.	TOTAL CHARGE OF THE CONTRIBETOR	2 45.5 1.2 8.3 .9 5.4 14.1 9.2 7.7 .3 .3	35.1 44.7 1.5 8.2 .6 5.4 .1 13.9 13.4 7.8 .3 .1 20	2 11.8 .6 7.5 .6 5.6 13.5 17.7 7.7 .6	26.7 .4 8.6 .5 5.3 14.0 12.4 5.5 .7 .1	23.4 .4 6.2 .3 5.5 .1 13.4 6.7 2.7 .3 .4	21.6 .6 7.5 .5 4.6 12.3 7.8 2.8 .2 .4	8 33.3 1.1 7.0 .4 4.9 12.2 7.8 5.8 .1 .2	.9 t.6 6.18 6.1 23.6 6.3 7.5 .3 .9 16.	33.8 .9 7.9 .5 5.3 .0 13.4 to.7 5.9 .3 .3
TO TO TO TO TO TO TO TO TO TO TO TO TO T	Special countries of Miles and or Miles and	2.2 21.0 32.7 51.8 .3 5.1 1.2 7.1 13.6 13.6 8.5 .7	2.6 22.2 34.3 49.6 .1 4.7 1.2 7.5 13.1 14.9 10.1 .6	3.6 25.8 40.3 40.2 .1 5.9 1.6 6.5 13.7 12.7 12.6 .6 .1 28.	1. 6. 25.1 37.1 1.51 9 8.9 13.1 17.1 8.5 4.36 1.1	1.1 23.0 33.5 32.2 3.7 ,4 7.1 11.0 12.0 5.5 .7	1.0 20.3 30.0 33.6 .1 4.7 .9 5.4 .1 10.7 12.3 6.0 1.0	22 29.9 39.7 .1 4.8 1.5 6.1 12.6 12.7 9.6 1.2 22.	1,6 19,7 32,6 46,2 ,3 5,3 1,8 7,3 13,9 13,0 9,2 1,2 21,	2.0 22.0 34.1 40.7 .1 4.8 1.2 6.9 12.6 14.4 8.7 .8 .0 22.	Waterlines of No. Waterlines of No. Waterlines of No. Waterlines of More Processing Parties and No. Waterlines about (Minn or Witnessing Parties about Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and/or Mare Pressing Parties and Parti	.8 16.0 32.2 45.5 1.2 6.3 .9 5.4 14.1 9.2 7.7 .3 .3	. 1,2 19,0 35,1 44,7 1,5 8,2 .6 5,4 .1 13,9 13,4 7,8 .3 .1 20	1,4 22.3 39.2 11.8 .6 7.5 .6 5.6 13.5 17.7 7.7 .6	1,1 21.9 36.5 26.7 .4 8.6 .5 5.3 14.0 12.4 5.5 .7 .1	4. 19.7 36.2 23.4 4 6.2 ,3 5.5 ,1 13.4 6.7 2.7 ,3 .4 .4 .5 .5 .5 .1 .13.4 6.7 2.7 .3 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.5 15.3 31.5 21.6 .6 7.5 .5 4.6 12.3 7.8 2.8 .2 .4	.5 14.8 28.8 33.3 1.1 7.0 4 4.9 12.2 7.8 5.8 .1 .2	.8 16.2 30.7 43.4 1.8 8.1 .4 5.5 13.8 8.3 7.5 .3 .9 16.	.8 18.4 33.6 13.8 .9 7.9 .5 5.3 .0 13.4 to.7 5.9 .3 .3
TO TO TO TO TO TO TO TO TO TO TO TO TO T	Variables (2007) and/Or Variables (2007) bard/Or Variables (2007) bard/Or Variables (2007) bard (2007)	21,0 36.7 51.8 .3 5.1 1.2 7.1 15.8 13.6 8.5 .7	6 22.2 34.3 49.6 .1 4.7 1.2 7.5 13.1 14.9 10.1 .6	3.6 25.8 40.3 40.2 .1 5.9 1.6 6.5 13.7 12.7 12.6 .6 .1 28.	25.1 36.4 38.7 1.1 4.4 , 9 8.0 13.1 17.1 8.5	23.0 33.5 32.2 3.7 .4 7.1 11.0 12.0 5.5 .7	20.3 30.0 33.6 .1 4.7 .9 5.4 .1 10.7 12.3 6.0 1.0	18.9 30.9 39.7 .1 4.8 1.5 6.1 12.0 12.7 9.6 1.2 22.	19.7 32.6 46.2 .3 5.3 1.8 7.3 13.9 13.0 9.2 1.2 21.	22.0 34.1 h0.7 .1 4.8 1.2 6.9 12.6 14.4 8.7 .8 .0 22.	Waterlings - COO Pt and/or visibilings - COO Pt and/or Visibilings - COO Pt and/or Visibilings - COO Pt and/or Visibilings - COO Pt and/or Visibilings - COO Pt and/or Visibilings - COO Pt and/or Visibilings - COO Pt and/or Preceding Pre	18.0 32.2 45.5 1.2 8.3 .9 5.4 14.1 9.2 7.7 .3 .3	19.0 35.1 44.7 1.5 8.2 .6 5.4 .1 13.9 13.4 7.8 .3 .1 20	22.3 39.2 11.8 .6 7.5 .6 5.6 13.5 17.7 7.7 .6	21.9 36.5 26.7 ,4 8.6 ,5 5.3 14.0 12.4 5.5 ,7 ,1	36.2 23.4 .4 6.2 .3 5.5 .1 13.4 6.7 2.7 .3 .4	15.3 31.5 21.6 .6 7.5 .5 4.6 12.3 7.8 2.8 .2 .4	14.8 28,8 33.3 1.1 7.0 ,4 4,9 12.2 7.8 5.8 ,1 .2	30.7 43.4 1.8 8.1 .4 5.5 13.8 8.3 7.5 .3 .9 16.	18.4 33.6 33.9 .9 7.9 .5 5.3 .0 13.4 10.7 5.9 .3 .3

A blank indicates that the data are not available.

WHITEMAN AFB, KNOB NOSTER, MISSOURI

Percentage Frequencies of Occurrence of Specified Weather Conditions

lo s noisiv	Total Occurrence Obstructions to	9.4	9.5	3.5	4.6	3.0	9.0	1.9	5:5	4.7	To assertance fator noistv of another	3.9	8.8	15.1	3.9	1.9	1.0	1.6	5.0	-
ac∖b	Dust (R)owing an	i	į	}	г.	٦.	i	۳.		o.	Yo\bns galvering Suspended)	{	;	1	į	1	ļ	1	٦.	9
	won2 aniwold	1	1	1	1		i	ì	1	-	Blowing Snow		į	:	1	}	į	1	ļ	
3	san tolbna exiomS	1.4	1.7	1.9	1.1	1.0	6.	o,	1.5	1.3	Smoke and/or Mate	ġ.	1.5	3.8	1.9	9,	₫.	6.	5.	1.3
	3 0 <u>J</u>	3.5	6.1	6.9	3.4	C.3	1.2	Ċ.	63	3.5	90g	9.0	7.4	9.7	2.2	1:3	9.	۲.	7.7	3.1
jin B	enmerancon feder noidediqiperf	6.5	e 6	ei Cu	··	(1)	4.5	a:	6.4	Ü	No seconomicool Letel noidedigioen	6.2	7.7	4.9	4.	3.9	3.4	3.6	4.0	3
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1	sat; do/pum mods	-	-	i	1	1	1	-	1	į	querts uo/pur moug	į	-	1	1	-	1	1	1	į
JUNE 10/P	ne nind gaiseerd Alazird gaiseerd	ł	-	1	;	1	;	1		1	AUGUSTI Autsmerii	;	1	1	1	1	i	-	}	-
	zini mo∖bae ateM	5.5	5.3	9.5	0	6.1	3		6.4	6.3	Missini nolbine diele	6.2	7:7	4.4	-1 -3	3.9	# (vi	3.5	ų.	9.
Mithout	To drild) medandT in transfiltery?	.1	5.5	3.0	5,6	5.6	5.5	r)	÷	3.6	amontaiw no staiw) yebnudi (notawaiqioeni	5.0	÷.3	2.4	7.7	6.	1.2	5.6	2.3	2.6
0	Cloud Cover 13/1	51.5	9.04	30.5	25.0	19.3	£.8	2.6.7	31.5	35.3	01\ki_ 19v00 buol')	67.0	8.03	7.77	4.9	33.6	38.7	6.94	61.5	49.5
To\bna 1	T ucca> egailieo A· seibilidieiV	1.2	16.2	6.91	٠ اه	23.3	::	3.8	3	1.53		e G	14.3	16.9	11.5	10.8	6.2	5.4	5.9	0.01
AD/PUR 1	9 5.403> sanitien E- seifilidialV	(I)	7.2	7.3	di Ci	6.2	-1	ω. α.	5.6	٠ <u>٠</u>	subbne 23 Minte ammittet iM & restailfdisty	3.0	5.6	7.2	6.5	4.6	2.5	1.5	1,4	0.4
SN d 40/pms	JT SUS> manified \f. maitifidiniv	.5	1.0	ů,	-:	1	-	1	e,	.i.	To the 34 who samilied IN SAL selatificative	c.i		φ.	1	1	1	٦:	}	ei.
suo; "s	Number of Chaery	1,620	1,620	:,613	1,617	1,617	1,617	1,617	1,617	12,944	otto i tronnerofo (to madmirk	1,674	1,673	1,674	1,674	1,673	1,674	1,672	1,672	13,386
	ilows.	20-00	3-05	90-30	il d	2-31	ly S	00	1-63	Act.	smog	87	63-65	90-30	ij.	15-21	5-13	28-82	21-23	Act. Hours 1
					•	.,					1									,
nesialy	Cotamoration (atoT)	3.6	13.5	12.3		4.9	7	5.4	9.9	17	to accommence (which moinst or analysis)	5.0	10.4	4.μ	2.7	1.0	.7	1.1	5.0	÷
40.58	ne quivolt) fanc (bebreque)	-	1	į	ιÀ	ij	• !	τ.	1	1	it - Abune maineold() - mend (bedamengan);	;	ļ	1	;	}	:	۲.	1	ó
	Month Rainelf	1	1	1	į	1	ì	i	į	;	करम् अमृक्षात्	-	-	-	į	Ì	Ì	-	1	1
4	Smoke and/or Hos		1.5	.;	1.3	Ü	u,	1.7	1.6	£:3	estill solution exempt	1.3	2.9	3.5	1.6	7.	٦.	٦.	1.1	2.5
	kog.		4	: 1	31.	ē,	å	4.2	.; ?;	6.3	жом	3.1	7.7	6.1	1.1	ú	ú		1.0	8.9
Jri s	Total Accurrences	::	2	:	.3	r -	r) F	9,	d	10	to constrained fat t noitheigherd	.5	5.6	7.2	3.6	2.9	3.5	3.5	3.2	÷,
	114.5.1	1	1	-	1	}	1	٦.	1	o.	[f will	:	:	1	-	1	7	į		o.
	раат, долрия воці	1	1	}	۲:	οį	rį.	٦.	ł	렴	faoi'd govieus World	:	;	i	į	1	ł	1	;	
MAY */1	ar sind Buismon Anissimi whiseed	1	1	1	1	ŀ	1	1	1	į	TOTAL SALES OF SALES	i	i	1	1	;	1	;	-	1
473	(2)4: 40/pun ujug	6.6	S. Cal	1	et?	3.	.,	8.8	9.0	e, ai	otastati ashbine nimi	÷.	5.6	7.2	3.6	2.9	3.5	3.5	e,	4:2
Age di vi W	m: ditWl machandT .m itusiliteaTi	-: m	G I	10	.:	1.1	ei Ci	4	9.4	2.9	montrial as driad), nothind?	3.1	5.4	3.7	1.0	1.4	2.1	6.9	2.6	2.9
(MAL may A buoff	4	59.5	Ċ	\$;	23.3	5.5	33.5		33.7	Olive grover 5.940	61.2	51.9	37.5	35.7	29.1	33.9	9.5	8.2	₫.
ao/paw	rt undd- agaillen 6 4- aeililidiaiV	-[-]	3	(c)	25.3	36.1	19.1	16.3	15.1	8.	ro\han ff 00.04 - agailteil M a- solfilidialV	9.1	14.3	16.0	10.9	11.6	7.6	5.9	5.6	10.1
2.1/ p m	eg onto agailled () colollidadiv	3.5	12.2	2	8.51	9.9	r-	7.0	7.1	9.	nowhere any process assails and the second s	5.5	6.4	6.9	5.1	2.9	4.4	1.7	1.1	3.5
IN a ao/puni	24 .99 - 2541IIa9 2/f: solilifidialV	٠.	6.	17	4	!	4	7	cả		mo\bma #4 985 saniliot iM S\L sairilidialV	Ġ	٠.	4.	ì	į	1	۲.	i	Ľ,
stur- } 4	nversel to gedaud	1,561	1,593	326	1,53	1,581	1,57	1,580	1,536	12,643	anoi tavronto to rodank	1,668	1,674	1,674	1,673	1,673	1,673	1,672	1,673	13,390
	sanoli	20-25	87-83	90-90	Į.	45-54		28-83	52-53	AC. Hours	Rours	3-3	69-05	96-36	i j	100	25-23	25	21-23	Same Board
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WHITEMAN AFB, KNOB NOSTER, MISSOURI

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	7.6	11.4	14.9	6.4	3.8	4.1	7.1	6.7	9,5	% secretaroo faso.	19.2	19.9	25.2	30.5	15.5	14.6	18.3	18.5	19.0
	Dust (Blowing and/or Suspended)	1	!	;	ł	1	;	;	ţ	Ì	Dust (Blowing and/or Suspended)	1	:	1	}			-	į	1
	wone aniwolf	1	į	1		}	}	ì	ł	:	wond Smiwold	9	9,	9.	• 5	Ü	ė.	ė.	٠:	ż
	saali ro\bna salomS	3.2	4.5	9.4	1.3	1.0	۲.	2.7	3.2	a.	szak rolána sáczó	7.0	7.0	8,2	5.3	3.0	3.6	9.9	6.5	6.5
	Fog	6.8	9.3	10.8	5.1	8.8	3,4	4.4	5.7	6.1	No.i	13.6	14.4	18.6	16.4	12.9	11.5	13.0	13.0	14.2
	To econstractor IstoT Trecipitation:	6,2	6.9	7.3	5.8	9.9	5.8	5.3	6.3	6.3	to escreturoo Latol noitatiqiosaf	13.0	13.6	13.8 1	13.0	11.4	10.01	10.6	11.4 1	1 1.51
	राष्ट्रा	į	į	٠:	1	1	-	1	1	o.	ग्रंबस	1	1	:	-	-	-	-	7	1
æ	deets nothing wond			7	7				٦.	o.	T 1991g 10/pum moug!	5.8	6.5	7.2	- 9.5	- 0.9	. 5 ·	- 9.4	4.4	5.8
OCTOBER	To-bas in Relation of the Prizary Prizary Bairseary			1	1	1	1		1	-	O To-\bas nish shizeer? M	1.4	6.1	1.7	1.0	1.0	1.3	1.0	9,	2.5
007	edssima nolban nine	6.2	6.9	7.3	. 8.€	. 9'9	. მ.მ	5,3	6.2	6.2	O +izzird ro\bna nisk	6.2	5.1	5,1	÷.	β.4	4.4	5.2	6.3	8
25.	Thumder (With in With.	2.0	2·4	1.7	.,	۲.	6,	6.	1.3	1.3	ರಾಗಗಳುಕ್ಕೆ ತಗ್ಗಳು ಸ್ವಕ್ತಾರ್ಥೆ (ಚ.ಕರಾಕ್ಷಕ್ಕೆ ತರ್ಮನೆ	7:	Τ.	;	٦.	7	4	ú	7	٠.
	01/62 mevod buold	62.3	61.5	6.64	48.7	45.2	0.44	55.9	2'19	53.2	C20ud Cover <u>1</u> 3/10	46.5	47.5	36.7	35.0	4.05	59.0	30.0	4.44	36.4
ac.	Maiplifies of M. Geiffræs ordoo Et and.	15.3 6	17.5 6	8.03	18.5 L	17.3 4	13.4 4	12.5 5	14.1 6	16.2 5	TO SET STATES - 4000 Ft and the set of ME	34.1.46	37.3 4	41.2 3	35.9 3	33.7 3	31.4 2	33.1 3	35.2	34.9
40	/bns 25 50255 sgmilteD WE's selfilidisty	6.6	9.0	3.6	10.4	6.8 1	5.4 1	5.8	5.6	7.4 1	vietings <2000 F* modior	21.9 3	26.5 3	27.8 4	26.1	23.4 3	21.2	19.7	5,0	23.3 34
2.	o/bms 47 00% exciliso IM 0%1 esicilidialV	1.c	1.7	1.7	7.	;	7	ü	- ₹.		Tollings (0.00 bit and/or Visibilities (1/2 Mt	2.5	3.0 2	2.8 2	2.3	1,4 2	2.0	1.6	3,4	2.2
	Sumbler of Ctservations	384,1	684,	904,1	J8+11	. 384,1	1,467	989	1,467	11,902	ಕಟ್ಯುವಿಶಾಸಚಿಕ್ಕವು. ೨೦ ಚಕಿತೆಗಳು	, 575,	1,577	1,577	, 577	1,578	1,577	1,579	1,576	
			7					-i												re 12,616
	gons	00-05	50-60	9090	(1-60	12-17	15-17	18-20	:1-43	All	इ.स.०)}	70-00	03~05	90-08	11-60	12-17	15-17	18-20	21-23	All Sours
	Total Croummennes of Obstructions to Vision	6.5	11.2	15.0	7.1	3.7	3.3	3.9	5.5	1.0	Total Occurrences of Spatructions to Vision	6.6	10.5	16.7	10.2	6.6	6.9	4.6	9.5	9.3
	ne/bar galvoid) famb (betaegamb)	1	1	;	÷	;	1	į	i	1	no/pus gud/or (bebased)	ļ	-	Q	-:	•	;	;	į	7
				•	•	•				- 1						- [1	- 1		
	word Aniwolf	1			:	:	:		:		Acus Suimois	i	1	٦.	8,		:	ci !	۲.	٦.
		1.1	1.3	1.7	1.		E.	1.2	1.6	1.0	ocel colone ston. vont grivoli	3.5	2.5			1.1 .2	2.0	3.7 .2	4.1 .1 -	3.2 .1
	გითვ შისონეგ.					3.4 .3	3.0 .3		3.7 1.6	0.1		3.5		5.5 .1	2.9 .2	1.1		3.7	4.1	3,2
	nicanigiser 30% esel volume swam vone galivoit	7.7 5.5 1.1	9.0 10.0 1.3	13.6	6.4 6.5 .7			6.7 2.8 1.2			acey lo,pue among So,	6.5 3.5	6.1	12.0 5.5 .1	7.4 2.9 .2	4.6 1.1	4.4	1,.6 3.7	5.2 4.1	6.6 3.2
	30% asad ro\bna awomG wond aniwoff	5.5	10.0		6.5	3.4	3.0	7 2.8	3.7	6.1 1.0	esen iojpue engony Poj	3.5		5.5 .1	2.9 .2	1.1		3.7	4.1	3,2
ER	To soldstruck [4407] mitsalgiserd god sset rolbde swoed word galvoid	5.5	10.0	13.6	6.5	3.4	3.0	7 2.8	7.8 3.7	.0 7.2 6.1 1.0	dest collect and the second collection of the	6.5 3.5	7.6 8.1	12.0 5.5 .1	7.4 2.9 .2	4.6 1.1	6.8 4.4	1,.6 3.7	5.2 4.1	.0 6.9 6.6 3.2
EMBER	Alazird Snichery Their Tokard von Take This section of the property of the	5.5	10.0	13.6	6.5	3.4	3.0	7 2.8	7.8 3.7	,0 7.2 6.1 1.6	The section of the se	7.0 6.5 3.5	6.1	6.7 12.0 5.5 .1	6.5 7.4 2.9 .2	6.8 k.6 1.1	.1 6.8 4.4	1.8 7.0 1.6 3.7	5.2 4.1	6.9 6.6 3.2
EPTEMBE	TeefS Tothie work Lief To secondary of 14107 Initiality seed Soft Soft Tothie shork Auch Tothie shork Vons galvoid	2.5 1.7 5.5	10.0	13.6	6.5	3.4	3.0	7 2.8	.1 7.8 3.7		deg loppe among to see an one of the control of the	.2 1.4 7.0 6.5 3.5	.1 1.7 7.6 6.1	.1 1.4 6.7 12.0 5.5 .1	.1 1.5 6.5 7.4 2.9 .2	.1 1,4 6,8 4,6 1,1	.2 1.3 .1 6.8 h.t	7.6 9.4 0.7 3.7	.1 1.5 6.9 5.2 4.1	.1 1.5 .0 6.9 6.6 3.2
SEPTEMBE	missing galenty missing galenty most to have work to an order to have work to an order to have work to an order to have work so an order to have a factor and rother address and r	5.5	0 0.01 9.0 10.0	8.6 6.6 13.6	4 6.4 6.5	5.5 3.4	5.7 3.0	6.7 6.7 2.8	7.8 3.7	,0 7.2 6.1 1.6	The section of the se	1.4 7.0 6.5 3.5	1.7 7.6 8.1	1.4 6.7 12.0 5.5 .1	1.5 6.5 7.4 2.9 .2	1.4 6.8 4.6 1.1	1.3 .1 6.8 4.4	1.8 7.0 11.6 3.7	1.5 6.9 5.2 4.1	2,5 .0 6.9 6.6 3.2
SEPTEMBE	Contradigness Acad Tolone side Tolone side altered Tolone side altered Tolone side Transcription Transcription Transcription Transcription Transcription Transcription Transcription Transcription Acad galvate	3.0 7.7 7.7 5.5	3.3 9.0 9.0 10.0	1.1 6.6 6.6 13.6	.5 6.4 6.4 6.5	1.3 5.5 5.5 3.4	2,4 5,7 5.7 3.0	3.5 6.7 6.7 2.8	2.9 7.81 7.8 3.7	9 2.2 7.20 7.2 6.1 1.0	Acade To base sacos. Acade To base sacos. Acade To base sacos. Acade To base sacos. Acade To base sacos. Acade To base sacos. Acade To base sacos. Acade To base sacos. Acade To base sacos.	4 .7 5.5 .2 1.4 7.0 6.5 3.5	.5 5.7 .1 1.7 7.6 6.1	.1 5.3 .1 1.4 6.7 12.0 5.5 .1	2. 4.9 .1 1.5 6.5 7.4 2.9 .2	.1 5.5 .1 1.4 6.8 4.6 1.1	.2 5.3 .2 1.3 .1 6.8 4.4	7.6 3.4 1.8 7.0 4.6 3.7	5.4 ,1 1.5 6.9 5.2 4.1	.3 5.4 .1 1.5 .0 6.9 6.6 3.2
SEPTEMBE	accompany of Mr. Special Court Cover 13/10 or Window Middle Commission Special Court Cover 13/10 or Window (With or Window (With or Window) or Cover Special	61.5 3.0 7.7 7.7 5.5	3 56.3 3.3 9.0 9.0 10.0	49.6 1.1 8.6 6.6 13.6	45.5 .5 6.4 6.5	4 41,0 1.3 5.5 5.5 3.4	42.8 2.4 5.7 5.7 3.0	50.5 3.5 6.7 6.7 2.8	58.2 2.9 7.81 7.8 3.7	0 50,9 2,2 7,2 ,0 7,2 6,1 1,0	anomial to make the control of the c	8 54.4 .7 5.5 .2 1.4 7.0 6.5 3.5	7 54.3 .5 5.7 .1 1.7 7.6 8.1	43.6 .1 5.3 .1 1.4 6.7 12.0 5.5 .1	36.2 .2 4.9 .1 1.5 6.5 7.4 2.9 .2	39.0 .1 5.5 .1 1.4 6.8 4.6 1.1	41.5 .2 5.3 .2 1.3 .1 6.8 4.4	49.0 4 5.4 1.8 7.0 1.6 3.7	53.8 5.4 ,1 1.5 6.9 5.2 4.1	A 46.6 3.3 5.4 L. L. 6.9 6.6 3.2
SEPTEMBE	And the second services of the second services of the second services of the second services of the second services of the second services of the second second services of the second second services of the second	3.0 7.7 7.7 5.5	10.3 56.3 3.3 9.0 9.0 10.0	20.5 49.6 1.1 8.6 6.6 13.6	18.1 45.5 .5 6.4 6.5	18.4 41.0 1.3 5.5 5.5 3.4	13.7 42.8 2.4 5.7 5.7 3.0	11.8 50.5 3.5 6.7 6.7 2.8	13.0 58.2 2.9 7.81 7.8 3.7	16,0 50,9 2.2 7.2 ,0 7.2 6.1 1.0	ON STREET, SPECIAL STREET, SPECIAL STREET, SPECIAL SPE	19.8 54.4 .7 5.5 .2 1.4 7.0 6.5 3.5	22,7 54,3 .5 5.7 .1 1.7 7.6 8.1	26,4 43.6 .1 5.3 .1 1.4 6.7 12.0 5.5 .1	25.7 36.2 .2 4.9 .1 1.5 6.5 7.4 2.9 .2	24,1 39.0 ,1 5.5 ,1 1,4 6.8 4.6 1.1	21.2 41.5 .2 5.3 .2 1.3 .1 6.8 4.4	19.2 49.0 4 5.4 1.8 7.0 4.6 3.7	18.0 53.8 5.4 ,1 1.5 6.9 5.2 4.1	22.h h6.6 .3 5.4 .1 1.5 .0 6.9 6.6 3.2
SEPTEMBE	The 39 COAD Familian A 60 VI No. 19	8 13.8 61.5 3.0 7.7 7.7 5.5	3 56.3 3.3 9.0 9.0 10.0	49.6 1.1 8.6 6.6 13.6	45.5 .5 6.4 6.5	6.0 18.4 41.0 1.3 5.5 5.5 3.4	42.8 2.4 5.7 5.7 3.0	50.5 3.5 6.7 6.7 2.8	58.2 2.9 7.81 7.8 3.7	0 50,9 2,2 7,2 ,0 7,2 6,1 1,0	OVER THE SALE OF TRANSPORT OF T	10.0 19.8 54.4 .7 5.5 .2 1.4 7.0 6.5 3.5	7 54.3 .5 5.7 .1 1.7 7.6 8.1	16.0 28,4 43.6 .1 5.3 .1 1.4 6.7 12.0 5.5 .1	36.2 .2 4.9 .1 1.5 6.5 7.4 2.9 .2	39.0 .1 5.5 .1 1.4 6.8 4.6 1.1	41.5 .2 5.3 .2 1.3 .1 6.8 4.4	49.0 4 5.4 1.8 7.0 1.6 3.7	53.8 5.4 ,1 1.5 6.9 5.2 4.1	A 46.6 3.3 5.4 L. L. 6.9 6.6 3.2
SEPTEMBE	Section of the sectio	.3 5.8 13.8 61.5 3.0 7.7 7.7 5.5	1.1 9.6 10.3 50.3 3.3 9.0 9.0 10.0	1.4 11.1 20.5 49.6 1.1 6.6 6.6 13.6	11.0 18.1 45.5 .5 6.4 6.4 6.5	6.0 18.4 41,0 1.3 5.5 5.5 3.4	6.1 13.7 42.8 2.4 5.7 5.7 3.0	.2 5.0 11.8 50.5 3.5 6.7 6.7 2.8	.2 5.8 13.0 58.2 2.9 7.81 7.8 3.7	.4 7.6 16.0 50.9 2.2 7.2n 7.2 6.1 1.0	NACTO PLANT OF HER PARTY OF THE	.9 10.0 19.8 54.4 .7 5.5 .2 1.4 7.0 6.5 3.5	.8 12.4 22.7 54.3 .5 5.7 .1 1.7 7.6 8.1	.8 16.0 28,4 43.6 .1 5.3 .1 1.4 6.7 12.0 5.5 .1	.2 15.7 25.7 36.2 .2 4.9 .1 1.5 6.5 7.4 2.9 .2	.1 12.6 24.1 39.0 .1 5.5 .1 1.4 6.8 4.6 1.1	.1 9.7 21.2 41.5 .2 5.3 .2 1.3 .1 6.8 4.4	.2 9.9 19.2 49.0 .4 5.4 1.8 7.0 4.6 3.7	.4 9.2 18.0 53.6 5.4 ,1 1.5 6.9 5.2 4.1	. 4 11.9 22.4 46.6 5.3 5.4 1. 1.5 .0 6.9 6.9 5.2
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^{0.0} indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

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WHITEMAN AFB, KNOB NOSTER, MISSOURI WIND ROSES

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WHITEMAN AFB, KNOB NOSTER, MISSOURI WIND ROSES

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	Mean	41-47 \$8-55 256 Total				19-11 16-75 276 Total		13366
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>:		34-40 41-47 \$8-55 356 Total				25. 5569. FLEG - 01-46.		13366
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MAY		11-16 17-21 22-27 28-33 34-40 41-47 48-55 156 Total	######################################	5. 9. 5.8 9.00°	TOTAL HAMBIN OF OBSENVATIONS	1920; 96 95-96 theft Ornic (Eng. 22-22 12-21 91-11 special in pands) **XTOP**	60. 6 6 6 66 66 66 66 66 66 66 66 66 66 66	8.4 .5 .1 100.0 100.0 08.024.47.1046 13366
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WHITEMAN AFB, KNOB NOSTER, MISSOURI WIND ROSES

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		Total	ดอนและบุลดูนี้จึงอุนุลนูลนุ ผู้ พาสตสดะผลคะจากสดบอล ค	100.0	11903
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		1.8-55			BSERVAT"
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		Total	4.9	3.3	3.5	m m	2.7	7	4.5	6.1	8.5		9	e.	9.4	9	2.0	5.3		9.7	0.001	
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		37-16	1.5	÷	'n	÷	ė	÷	ŕ	1.0	- 1	5.6	1.5	۲.	æ.	1.6	1.3	1,1			97.7	
		j	2.3	1.5	4.	1.2	1-1	1.4	1.6	2.3	9.4	3.4	es es	1.5	1.5	7.7	1.7	0.0			31.8	
		ij.	1.7	7.7	0.1	0.4	1.8	7.4	4	5.5	ě	2.1	4	7.7	7.4	ō.	1,2	7.5			24.3	
		3	9.	-₹.	s.	÷	ę.		æ	æ	1.5	-	s.	'n	9	.	4	-		9.11	21.8	
		Sir.	21	EXX	NE	200	GA)	353	35	838	m	SSM	i	1157		17.5		N.C.	VARBL	ğ	101	

CHERRY POINT MCAS HAVELOCK, NORTH CAROLINA

(Lat. 34°54'N, Long. 76°53'W, Elev. 29 ft.)

Cherry Point MCAS is located on the southeastern coast of North Carolina. The airfield is on the northern side of a peninsula formed by the Neuse River and Pamlico Sound on the north, and the Atlantic Ocean 15 miles to the south. The surrounding area is mostly heavily wooded lowlands and swamps.

Overall, climatic conditions are quite moderate in the Cherry

Point area because of the nearness of the Atlantic Ocean. Winds from

the southeast usually result in night and morning stratus or fog, with

maximum occurrence from November through February. Ground fog will

usually form with light northwesterly winds. Under a northeasterly

flow, stratus rather than ground fog generally occurs. Frontal activity

is most intense during the winter and early spring.

Thunderstorms occur in all months of the year with the maximum frequency occurring during the summer months. Surface winds may reach hurricane force in severe thunderstorms. The occurrence of hail is rare. Tornadoes and waterspouts have been reported along the coast.

Hurricanes may affect the area from August through October with the maximum frequency occurring in September.

Flying conditions are generally good with the best conditions occurring in July and the poorest in January.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from April 1945-March 1969.

CHERRY POINT MCAS HAVELOCK, NORTH CAROLINA

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Te	mperat	Temperature (F)	F)						
	Jan.		Feb. Mar.	Apr.	May		June July Aug.	Aug.		Sep. Oct.	Nov.	Dec.	Annual
Maximum	55.2		56.6 62.4	72.2	79.3	94.6	72.2 79.3 84.6 87.6	87.0	82.1	73.6	65.2	26.7	71.9
Mean	0.94		47.2 52.7		70.0	76.3	62.2 70.0 76.3 79.9 79.3 74.5 64.9	79.3	74.5	6,49	55.5	47.1	63.0
Minimum	36.3		42.7	51.7	60.3	67.5	37.2 42.7 51.7 60.3 67.5 71.6 71.2	71.2	4.99	55.8	55.8 45.2	37.1	53.6
			æ	ecord	Temper	ature	Record Temperature Extremes	თ თ					
Maximum	&	₽	8	93	98	104	101 101	101	100	95	88	&	
Minimum	10	12	8	30 33 44 Period of Record:	33 of Rec	1,14 ord:	56 57 1945-1969	57 969	94	92	18	17	
MONTHLY MEANS				Preci	pitati	Precipitation (Inches)	ches)						
${ t Precipitation}$	3.31	3.87	3.08	2.49	40.4	5.30	3.31 3.87 3.08 2.49 4.04 5.30 8.42 6.35 6.33 3.35 3.33 3.24	6.35	6.33	3.35	3.33	3.24	53.11
Snowfall* .5 .7 (*Hail was included in Snowfall Summary prior to January 1956)	.5 .7 nded in Snowfall to January 1956)	.7 Snowfa ry 195	•	.0 eriod	of Rec	o.	Feriod of Record: Precipitation Showfall	.0 ecipitation nowfall		.0 1945-1969 1949-1968	H	i	ત ત

Surface Winds (Knots) - Record Peak Gusts

Wind Direction	MS	SW		WIM	SW	MNM		Æ	SSW	NNE	SSW
Velocity	2	57	26	07 56 70	26	57 90		93	92	51	29
•			_	Period	of Rec	1945-1	696				

Maximum and/or Minimum Anemometer Height: 90 feet 04/45; 12 feet 10/59

CHERRY POINT MCAS, HAVELOCK, NORTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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ū	To seconstructo LatoI oisiv of anoitematedO	34,6	39.8	47.0	35.4	21.3	g.0	25.9	8.62	31.9	ta.	Total Occurrences of Districtions to Visio	34.5	43.3	43.4	18.1	12.9	12.5	18.3	25.3	8
	Dust (Blowing and/or Suspended)	ļ	;	}	i		o.	o.	}	ė,		Dust (Blowing and/or Suspended)	ú	٦.	i	į	9.	θ.	r.	Ġ	ú
	Blowing Snow	۲.	۲.	~!	į	į		Ģ	7.	7.		ADUS PUȚACȚĘ	į	į		;	į	į	ì	į	-
	szad to\bns szione?	18.5	18.8	25.7	23.4	15.9	13.1	15.0	16.6	18.0		Smoke and/or Maze	25.0	8	27.8	13.3	9.6	9.1	13.7	17.6	17.0
	90 _d	18.3	24.1	7.1	13.9	9.1	4,8	11.0	13.7	15.7		804	14.6	25.5	21.3	5.0	5,6	2.1	4.2	8.3	5.01
	Total Occurrences of Frecipitation	12.0	12.5	12.5	12.3	15.0	6.11	10.7	6.6	11.7		Total Occurrences of Precipitation	7.5	9,7	0.7	7.5	6.3	7.3	1.0	7.3	7.5
	Lian	į	-	1	1	;	:	;	į	1		रा•च	1	1	1	į	1	1	į	ļ	!
RY	guon wuq/ot greer	1.0	1.3	1.0	ė.	ø,	t÷	₹.	.1	ė.		feel2 To\bas word	1	1	ł	į	1	1	i	i	ŀ
FEBRUARY	Freezing Bain and/or Freezing Drizzle	₹:	÷	ú	o,	1	;	7	οi	۲.	APRIL	Treezing Rains and/or Freezing Drizzie			1	1	1	1			
FEB	sizzird vo\bns nisk	9.00	6.01	11.3	9'11	11.4	11.4	10.2	9.1	6.01	₹	Staird tolbne nish	7.5	9.1	0.7	7.5	6.3	7.3	1.0	7.3	7.2
anc	film to fill (With or With factor)	1.	8	oi.	0.	1.	۲.	.3	cv.	o,	ne	fired trib) asbundi Prediptation	-7.	e,	.3	٠;	₹.	æí	1.1	1.0	ø,
	Cloud Cover 13/10	43.3	43.6	35.7	4.46	31.2	30.0	37.5	43.0	37.3		Cloud Cover 53/10	52.1	8.8	39.5	37.3	31.6	31.4	0.14	52.0	41.7
20/	bms 24 0004> sgniliso TW 3> seifilidistV	37.5	6.04	44.44	0.44	29.1	28.3	4.06	1.9	35.9	10/	Ceilings < 4000 Ft and Visibilities <6 Mi	4.06	38.6	38.5	28.5	4.75	22.8	51.6	24.7	8.1
20/	Seilings <2000 Ft and Visibilities <3 Mi	19.3	4.02	23.5	19.5	17.9	17.0	17.71	17.6	19.1	2 0/	Ceilings <2000 Pt and Visibilities <3 Mt	7-47	17.9	6.91	0,41	0.6	4.6	9.1	11.6	13.0
1 0	Cellings <200 Pt and/ Vimibilities <1/2 Mi	2.8	2,8	2,6	1.0	4	ŗ.	1.2	2.5	1.1	40	Ceilings <200 Pt and/ Visibilities <1/2 Mi	1.5	7:	7.1	αį	1	;	i	ů.	·-
s	Number of Observation	9₹0	4€0,	۰34	460,	2,034	2,034	2,034	2,033	ın,	5	Tumber of Observation	2,157	2,157	2,157	2,157	157	,157	2,157	2,156	17,255
	gorna	00-05	03-05 2,	2 90-90	9-11-50	12-14 2	15-17 2	13-20 2	2 5-12	All Hours 16,		gomes	00-05	03-05 2	80-90	09-11 2	12-14 2	15-17 2	18-20 2	21-23 2	All Hours 17
	1	8	0	90	8	27	7	61	a	₹ 8		ļ	0	ö	Š	ő	15	ä	16	22	2 %
0	Total Occurrences of Obstructions to Visio	35.1	78.7	47.5	38.6	24.0	22,5	23.1	38.2	33.2	ø	Total Occurrences of Ubstructions to Visto	31.7	37.5	46.5	21.5	18.0	16.5	23.7	±.	28.4
	Dust (Blowing and/or Suspended)	1	i	;	ì	ł	:	ł	;	1		Dust (Blowing and/or Suspended)	-₹.	2,	}	٦:	9	7.	۲.	.≠.	⁴.
	Wone Bniwolf	i	7	į.	7	į	1	;	1	7		Acus Bulacte		i	1	1	:	1	}	1	}
•	exaff to\bns extend	15.8	16.8	24.2	7.42	15.4	14.5	15.9	17.1	18.1		ezek wolpus extomo	16.8	16.3	25.5	18.1	11.7	10.4	14.1	15.9	16.3
	90 <u>4</u>	6.05	23.8	27.5	15.3	9.1	8.5	15.0	16.5	16.7		жод	15.9	536	4.95	9.7	0.9	5.5	4.9	11.8	13.1
	Total Jeautrences of Precipitation	12.2	12.3	12.5	11.9	12.3	11.8	11.7	12.8	12.2		Total Cocumrences of Precipitation	10.1	10.0	10.7	9.3	9.1	9.4	9.1	9.1	5.4
	TT#H	1	1		1	;	1	1	;	;		11 mH	;	1	1	:	0.	:	į	:	o.
ž	Snow and/or Sleet	yę.	1.2	1.0	1.5	6.		è	9.	ę,	-	feelS no/bom wood	ιń	ņ	.	-4;	₫.	9	ķ	ď.	ú
JANUARY	Freezing Bain and/or Freezing Drizzle	.#.	۲.	è	9	9	e.	ė,	7.	ı.	ARCE	Treesing Raissers achbase and Baissers	1	0,	i	i	;	1	7	ì	ė,
JA.	Pissia and on Brissle	11.3	10.9	11.3	10.7	11.1	11.1	8.01	11.8	1:1	×	Sizziad wo\bns nias	6.6	10.5	10.3	9.0	9.6	8. 9.	8.8	6.8	4.6
250	Thunder (With or Witho	8.	.#.	'n	1	o,	œ	Ģ	÷	ú	and	Thunder (With or Withoff Precipitation)	ı.	ķ	÷	7	÷.	ņ	₫.	υį	÷
	Cloud Cover 13/10	8.4	43.7	35.3	33.5	31.6	32.1	39.7	43.8	38.1		Cloud Cover 53/10	49.9	16.3	35.0	34.3	32.8	31.7	39.0	1.84	39.6
20	And 19 0004 emailie0 M de seifilidialV	37.2	39.0	43.3	34.2	7.62	28.8	31.1	33.3	34.6	20,	Ceilings <40009 Ft and. Visibilities <6 Mi	32.5	38.2	41.8	31.8	28.3	25.1	24.8	27.5	31.3
10,	Cellings <2002 Pt and/ Visibilities <3 Mt	6.08	22.1	53.0		19.8	18.5	18.7	19.4	8.3	رەد	Ceilings <2000 Pt and. Visibilities <3 Mi	17.4	30.1	95.6	18.9	13.1	13.4	14.6	15.9	17.0
	Ochings <200 Ft and/o	4.6	4.4	4.5	1.1	ų.	o,	1.3		2.5	10	Cellings <200 Ft and/ Wisibilities <1/2 Mi	2.4	6.3	2.3	۲.	ci.	ņ	۲.	1.6	1.4
	Number of Observations	2,231	2,232	2,232	2,230	2,231	2,232	2,231	2,230	17,849	,	Sumber of Observations	2,232	2,232	2,231	2,232	2,232	2,232	2,232	2,232	17,855
		, "			(v				L.W	=											a

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.
A blank indicates that the data are not available.

CHERRY POINT MCAS, HAVELOCK, NORTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of	47.3	61.3	4.12	6.43	18.2	17.3	55.6	36.1	3; .3	ı	Total Occurrences of Obstructions to Vistor	51.8	63.6	63.2	36.5	25.4	25.3	31.0	43.1	42.1
	Total (Blowing and/or Suspended)	į	1	1	c.	1	į	1	1	0.		To\bne gniwoff) feud (bebnaqeu2			1	1	-	o.	1	-	o.
	Mon3 gaiwold	. :	1	1	į	į		į	1	-		Month Snow	1		i	1		1	1	;	-
	Smoke and/or Haze	34.2	36.3	38.1	25.3	0.91	34.8	2. 2.	ç. 8	% ©:		azeH mo/bne awom2	0.0	41.6	0.94	33.3	23.3	8.	21.3	36.3	33.5
	304	17.6	35.6	27.12	7.7	ci (v)	5:5	5,0	(1) (1)	11.7		Pog	10.0	35.9	37.3	9:9	2.9	5:3	÷.	10.2	13.5
	To enonemnoso fatoT nottatiqisenq	6.5	9.9	5.3	ون	m K	19 18	3	6.3	m i-		to amonutationO lado? acidadiqipani	0.5	67	(t)		6.3	9:17	9.0	6.7	#5 1.5
	lian		1	1	1	r.	ì	i	į	o.		144.11	1	:	}	1		;	1	1	1
	Snow and/or Sleet		į	1	1	1	1	1	1		ь	Jeefs rolbing words	į	}	1	1	i	1	1	i	-
JUNE	Toldon night anisward	1	;	1	1	1	1	i	1		AUGUST	Solum aime gaismont Aissimi gaismont	;	1	1	1	į	1	1	-	;
7	alzzinű Yolpne nied	6.3	6.4	is.	9.5	3.5	3.6	aj	6.1	27	ΑŪ	"(salut nothing nied	::	5.5	10	7.1	50.9	30.6	0.6	(°	7.5
ν	Thunder (With or Witten Precipitation)	1.2	1.3	÷	5:	3.2	m m	3.1	ei ei	1.3	iu:	ontië ao AtiW) ambundî (molterbijoer)	5.5	1.3	ņ	0.1	 	4.5	at in	2.3	2.5
	Cloud Cover :3/10	4.74	36.4	5.75	55.6	14.2	10.2	27.5	0.5	3.6		Olyst annog prote	7	+3.6	26.0	28.7	13.3	19.0	27.5	9	8.1
10	olbna 17 0001, agniliad IN 45 amililidialV	9	4.40	46.5	39.9	,T.:	30.5	26.5	36.1	35.3	40	Norm of wone- agaitio' IM or aminimitation	£3.	92.6	54.5	1.9	1.2	33.9	₹.68	36.2	43.4
ű.	o/bna *4 9999 *8mille) !M £> selfilldialV	6.44	4.	19.6	17.4	24.3	11.7	4.05	11.2	15.2	44	Describer of the seasons of the seas	11.2	19.9	23.0	6.97	14.9	15.0	10.3	3.1	14.9
	ro/bms #9 99% samilish #M 9/f> majfilldiefV	99	٠ .	9.	į	ά	۲:	ιų	(ų	5.	.10	objan 44 Oct. saniff-O two.pl relitions with	εż	1.2	7:7	τ.	ņ			7	ċ
	Mumber of Opservations	2,16c	2,160	2,159	2,157	2,16	2,160	2,160	2,160	17,278		succitavates de 10 andmus	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	17,656
	Hours	20-00	03-05	90-90	3.5	22-27	55-27	28-22	(2) (1)	ACC.		нопа	20-30	3	9) 7	75	45-24	12-51	39-91	21-53	All: Hours
		1								-4, ,,,				.,	.,						
	%: secontracto later noisivo: smoltanticdo	37.8	52.9	£6.8	13.6	13.7	14.0	5	8	26.8		to associations tated mototical anotherwise for	7:3	52.3	4	22.2	15.E	1.5.	21.4	3.	30.3
	Tolkin quivolil faud (behraqaid) secherausol laiof (bill of anoliourisdo		52.9		13.6	13.7	14.0	.1 16.6	86			an ban an kulah 1204 bahanjan ti ananamban 1445 ti ananamban 1445 ti ananamban 1445	1.24	52.3		.1 23.0	.1 15.6	.1 15.4	4.12 1.4		.1 30.3
	(papuadang		9.56		35.6	13.7		i,	88.8	28.		(papuadan)	1.34	52.3							
ı	Tolking quibor(t) thand (behingous) (' sechneration' laid		32.3 52.9		16.2 13.6	11.2 13.7	4	i,	8.5 86.8	.1 28.		as four animators factor as four and with the factor of th	1.0¥ ···· 4.45	32.9 52.3			4				큭
ı	Works galvold rowling works galvold rowling authorst the galvold (behaved the contraction of the contraction	.6 37.	.3 58.	i.e.	.25 25.		.ê	5	7	.e1 26.		Be amountained father and har and har and subsection for and subsection for a subsection of the subsec	+1			.31		ê1		.90 36.	1.
ı	espil to ham whom despit to the spirits and work galvell toud (behavel) toud	26.6 37.	.4 32.3 52.	32.3 146.	; 16.2 13.	11.2 1.1	11.6	15.71 15.	S	.7 20.61 26.		wand molyhm whomb wone gothold wole gothold forbanegoth the avaitanteon factor the avaitanteon factor	32.4	32.9	L 34.ii	1 21.31	14.0 3.41	13.61	13.9	25.7 30.	24.01
	acquestinos) (1904) Acquistinos dinanti() tend Acquistinos dinanti() tend Acquistinos dinanti() tend Acquistinos dinanti() tend Acquistinos dinanti() tend Acquistinos dinanti() tendentinos dinantinos din	25.0 26.6 37.	5 36.4 35.3 52.	21.1 32.9 46.	4.0 16.2 13.	ė 2.5 11.21	2.2 11.6	15.71 15.	S	11.7 20.61 28.		and for the form of the form o	3 24.4 32.4	36.9	L 34.ii	3 2.1 21.31	1.7 14.6 3	5 1.5 13.61	3.3 12.8	6.6 25.7 30.	9.6 24.01
1	The Countries of Facility Shakes and for Herr Bank and for Herr Bank (Institute within within within the Countries of English (Institute was a Cou	25.0 26.6 37.	5 36.4 35.3 52.	21.1 32.9 46.	4.0 16.2 13.	ė 2.5 11.21	2.2 11.6	15.71 15.	S	11.7 20.61 28.		Controlled of the controlled o	3 24.4 32.4	36.9	L 34.ii	3 2.1 21.31	1.7 14.6 3	5 1.5 13.61	3.3 12.8	6.6 25.7 30.	9.6 24.01
, AA	Foreign with markow (1997) Somewhat the control of	25.0 26.6 37.	5 36.4 35.3 52.	21.1 32.9 46.	4.0 16.2 13.	ė 2.5 11.21	2.2 11.6	15.71 15.	S	11.7 20.61 28.	**	The accommend the state of the	3 24.4 32.4	36.9	L 34.ii	3 2.1 21.31	1.7 14.6 3	5 1.5 13.61	3.3 12.8	6.6 25.7 30.	9.6 24.01
MAY	Foreign with markow (1997) Somewhat the control of	25.0 26.6 37.	5 6.5 \$6.4 35.3 58.	21.1 32.9 46.	4.0 16.2 13.	ė 2.5 11.21	2.2 11.6	15.71 15.	S	11.7 20.61 28.	ATOR	the more recommendation of the contraction of the c	3 24.4 32.4	36.9	L 34.ii	3 2.1 21.31	1.7 14.6 3	5 1.5 13.61	3.3 12.8	6.6 25.7 30.	9.6 24.01
	Though Such mad/op (1904) Such place (1904) Such mad/op (1904)	5.2 5.2 25.0 26.6 37.	5 6.5 \$6.4 35.3 58.	6.3 25.2 38.9 46.	5 6.5 4.0 16.2 13.	6 6.6 2.5 11.21	5.1 5.1 2.2 11.6	35 15 7,5 3,6 15,7 3,5	2 (6.9 2.3	7.2 11.7 20.6 ,1 26.	חחד	procession (New York) (Appendix), the procession of the procession	7.3 7.3 24.4 32.4	525 369 37	L 34.ii	6.3 6.3 2.1 21.31	11.6 1.7 14.01	12.5 1.5 13.81	17.5 3.3 18.81	30.	1 0.45 3.6 3.7 3
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a a	Chief Courtement (*) Smoke and Courtement (*) Smoke and Or History Smoke and Or Histo	37.2 4).2 5.0 5.2 3.3 36.6 37.	5 35.2 1.1 6.5 6.5 % 3.3 56.	36.2 6.3 6.3 6.3 6.3 3.00 46.	4 89.9 .6 6.5 6.5 4.0 16.2 15.	2 84.4 2.5 6.5 6.6 2.5 13.23	. 29.5 2.7 5.1 5.1 2.2 11.8	31 1. 3.4 1.8 1.7 4.5 15.4 15.4 15.4 15.4 15.4	6 464 327 645 444 444 444 444 444 444 444 444 444	2 34.5 1.4 7.6 1.10 1.10 1.10 1.10 1.17 20.6 1.11 1.28.	ATOR	presentations of the control of the	3 43.5 6.1 7.3 7.3 24.4 32.4	5 36.5 2.1 7.1 7.1 29.1 36.9	باطب فافق على 1,2 يان 1,1 وي 1,5 وي 1,5 وي 1,5 وي 1,5 وي 1,5 وي 1,5 وي 1,5 وي 1,5 وي 1,5 وي 1,5 و	6 41,5 17.6 11,1 6.3 6.3 2.1 21.3	TO THE OWN DIE THE THE THE THE THE THE THE THE	30.1 15.5 6.3 12.5 12.5 1.5 13.61	23.9 28.9 5.5 10.5 11.5 3.3 12.81	26.1 3c.1 2.7 3.1 3.1 6.6 29.7 30.	1 0.45 3.6 0.4 3.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
n u	per jordinana, s per jordinanana, s per jordinanananananananananananananananananana	.2 37.2 4).2 6.0 6.2 37.	22.7 49.5 35.2 1.1 6.5 6.5 36.4 35.3 56.	1 43.1 36.2 .14 6.3 6.3 23.2 36.9 46.	13 July 29.9 .6 6.5 15. 16.8 16.8	3 33.5 24.4 2.5 6.6 6.6 2.5 11.21	3 26.0 29.5 2.0 5.1 5.1 2.2 11.8	23.7 35.4 1.8 7.4 7.4 3.8 15.7 13.	2 27.6 46.4 15.7 6.5 5.7 6.9 26.3	8 34.3 34.5 1.44 1.42 1.42 1.42 1.42 1.47 26.6 1.44 1.26.	ATOP	Control (No. 2) Interpreted to the control of the	.3 33.8 43.5 6.1 7.3 7.3 24.4 32.4	6 14,5 36,5 2.1 7.2 7.1 20.2 36.9 6	18.5 4.2.4 23.6 .5 7.1 7.1 18.4 34.4 3.6	19.6 41.5 17.6 1.1 6.3 6.3 2.1 21.3	11. 12. 14. 14.3 13.6 13.6 13. 14.0 3.14.	10.5 30.1 15.5 6.3 12.5 12.5 1.5 13.81	23.9 28.9 5.5 10.5 11.5 3.3 12.81	26.1 3c.1 2.7 3.1 3.1 6.6 29.7 30.	1 0.45 3.6 2.6 3.6 2.6 2.8 2.9 1.3
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

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A blank indicates that the data are not available.

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CHERRY POINT MCAS, HAVELOCK, NORTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	47.0	55.2	61.3	33.8	19.7	19.5	30.1	38.2	38.1		Total Occurrences of Obstructions to Vision	35.5	40.5	49.0	35.1	6.03	4.08	26.1	31.6	32.4	
	To\bne galvolf (Blowing and or Sand)	}	1	1	į	i	i	•	1			orspended)	1		:	1	1	-	;	;	:	
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	əzeg 10/pus əxlosaç	3.75	27.2	36 1	28.4	6.91	16.5	3.3	27.3	5.6		Smoke and/or Haze	19.5	21.3	7:72	7.45	15.0	13.5	16.4	19.0	19.6	
	30 _d	26.5	36.7	36.7	9.9	3.0	3.3	5.8	14.5	9.91		80 ₄	18.5	9.5	27.2	12.0	1.9	7.1	10.7	14.1	14.8	
	Total Occurrences of Precipitation	4.5	8.8	9.5	<u></u>		6.5	7.7	6.1	7.8		Total Occurrences of Precipitation	6.5	9.1	10.1	9.6	6.6	10.7	10.1	8.8	9.6	
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00	efzziwe mothem misse	7.4	8.8	9.5	7.7	÷.2	6.5	9.7	8,1	7.8	DEC	eizziwi wolbam nimA	8.5	9.6	9.6	3.5	3.5	10.4	9.6	8.5	9.5	
una	gerjisijājosag Ligina de unija, aspunug.	÷	r:	υį	ę	e.	çi	4.	9.	r.	\$1	Thunder (With or Withon Precipitation)	0	1	į	-	:	į	į	c,	o.	
	Siving Cover 55/ic	56.0	52.8	42.3	41.2	35.7	38.3	5-24	36.6	46.3		CI,ES 4000 prot)	51.3	52.2	39.0	37.3	35.8	36.7	9.94	20.0	43.7	
ac,	Venilings < LOSS fit and V IM 3> selicitidisiV	4.5	55.4	55.1	36.3	30.0	26.7	39.8	35.1	34.7	10	oeilings -4000 Pt and: Valibilities -6 ML	34.9	38.8	9.44	36.3	24.3	6.45	9:1.6	31.2	75.7	
40,	\Lambda < 2000 Pt and \\	 83	25.5	2.8.2	19.6	15.1	12,7	13.3	17.5	19.1	al.	San #9 0000 emailien IM (* seifillidielV	17.0	17.7	8.9	15.9	14.3	14.3	15.0	14.8	16.1	
40	okhina 48009° saniileS Wistbilitites 41/2 Mi	2.9	5.1	4.3	cs.	į	;	cá	۲.	17		o'bac 79 000 * sacilieo 28 7/1> *+istitidialV	3.1	3.5	3.2	φ.	÷	-₹.	1.1	2.7	1.8	
	Number of Chaervarions	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	17,856		taniamyreed: To redmink	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	17,856	
	Romes	00-05	03-05	9090	11-60	12-17	15-17	18-20	21-53	All Hours 1	•	sanog	00-05	69-65	80-90	09-11	12-14	15-17	18-20	21-33	All Hours 1	
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	% aecastrucco (\$10%) Colstactions to Vision	14.8	9.9g	59.6	30.8	88.3	19.1	1.8	34.2	æ.		Total Occurrences of Obstructions to Vision	54	\$8.6	54.9	33.5	18.5	17.1	25.0	32.7	34.1	
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	36g	19.4	33.2	33.1	4.5	2.4	2.0	4	9.8	13.5		жод	24.42	31.6	34.1	3.6	4.	4.5	7.4	14.8	16.4	
	To secongreences in To secongreence Totaskigioerf	3.1	5.7	2.5	7.7	6.5	3.1	6.9	e)	2.5		in ascheration is follower?	20	3.5	6.5	3.5	7.1	. 1	(3)	6.8	7.5	
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02	Thunder (With or Without Cartification of the motor Crisis of the motor of the moto	9.	.8	.6	9,	1.4 8	1.9	1.7	6.	1.1 8.5	NOVEMB	cdziń wo dziń) mabwuff (dolosolgżown?	ů.	.1 9.5	ę.	.1. 8.4	εń	7.2	.1.	₫.	s. 7.8	
02	Offer cave of the cover cave of the cave o		ဆ်	30.3 .6 6.	36.3 .6	20.3 1.4 8	26.3 1.9	37.3 1.7	αĵ	36.0 1.1 8.5	NOVEMB	Oloud Cover 13/10 Chunder (Wich or Wichnig Chulderlying)	54.0 .3	54.0 .1 9.5	44.9 .3	1,3,6 .1 8.4	E: 0.3	41.3 7.2	50.6 .1 6	4. 6.42	48.0 .2 7.8	
572	Assistance of the sed	42.1 50.8 .6	54.4 47.0 .9 8.	36.0 30.3 .6 E.	43.1 26.3 .6	30.6 20.3 1.4 8	43.2 26.3 1.9	30.4 37.3 1.7	8 6. 8	41.6 36.0 1.1 8.5	NOVEMB	the state of the state of Milliams of Mill	39.3 54.0 .3	45.5 54.0 .1 9.5	ę.	30.5 43.6 .1 8.4	24.3 4c.0 .2	20.1 41.3 7.2	24.4 50.6 .1 6	30.1 54.9 .4	33.0 48.0 .2 7.8	
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^{0.0} indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.
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ANNUAL

CHERRY POINT MCAS, HAVELOCK, NORTH CAROLINA

WIND ROSES

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CHERRY POINT MCAS, HAVELOCK, NORTH CAROLINA WIND ROSES

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CHERRY POINT MCAS, HAVELOCK, NORTH CAROLINA

WIND ROSES

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ANNUAL

SEYMOUR-JOHNSON AFB GOLDSBORO, NORTH CAROLINA

(Lat. 35°20'N, Long. 77°58'W, Elev. 88 ft.)

Seymour-Johnson AFB is located three miles southeast of Goldsboro, in the middle of the Atlantic Coastal Plain. Terrain within a 25 mile radius of the airfield is almost flat. Most of the land is used for farming; however, there are many swampy areas, particularly along the Neuse River which lies to the southwest of the airfield.

Weather conditions in this area are influenced heavily by the warm waters of the Gulf Stream as it flows northeast along the North Carolina coast. During the summer months, southeast winds of the Bermuda High bring warm moist air inland which is cooled at night to produce low stratus or fog and heated during the day resulting in cumulus or cumulo-nimbus cloud development.

In winter the warm moist air over the Gulf Stream acts to intensify activity along advancing cold fronts. Quite often these cold fronts become stationary off the coast, allowing the warm moist air to overrun the cold dry air, thus prolonging the existence of low ceilings and visibilities associated with the front.

Ceilings and visibilities are controlled primarily by the abovementioned meteorological conditions. Ocassionally low visibilities are caused by the ever present industrial air pollutants.

The following data, except for the Temperature and Precipitation

Summary, are based on twenty-four hourly observations from June 1943
July 1946, April 1954 and January 1957-December 1966; with the exception of cloud cover for which data are not available prior to 1946.

SEYMOUR-JOHNSON AFB GOLDSBORO, NORTH CAROLINA

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Te	Temperature $({}^{\circ}{}_{ m F})$	o) ean	F)						
	Jan.		Feb. Mar.		Apr. May		June July Aug.	Aug.		Sep. Oct.	Nov.	Dec.	Annual
Maximum	51.9	55.0	62.3	73.8	81.0	85.8	55.0 62.3 73.8 81.0 85.8 87.6 86.6 82.5 72.6 64.4	9.98	82.5	72.6	4.49	52.4	71.1
Mean	42.3	45.2	52.3	62.5	70°7	76.2	42.3 45.2 52.3 62.5 70.4 76.2 78.9 78.1 73.6 61.9 53.6 43.2	78.1	73.6	61.9	53.6	43.2	61.3
Minimum	32.3	35.1	41.9	51.0	59.6	66.2	32.3 35.1 41.9 51.0 59.6 66.2 69.9 69.3 64.3 50.9 42.4 33.7	69.3	64.3	50.9	45.4	33.7	51.1
			æ	ecord	Temper	ature	Record Temperature Extremes	Ω 0					
Maximum	81	81	89	95	26	97 104	100	66	98	8	₽	472	
Minimum	9	12	8	31 eriod	35 of Rec	47 ord:	31 35 47 54 56 47 25 3 Period of Record: 1943-1946, 1954, 1957-1965	56 346, 19	47 954, ⊥9	25 957-19	25 55	70	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	3.59	4.52	3.69	3.04	3.08	5.22	3.59 4.52 3.69 3.04 3.08 5.22 7.22 6.26 5.66 3.09 2.96 3.36	6.26	5.66	3.09	2.96	3.36	51.68
Snowfall* 2.3 .9 1.1 .0 .0 .0 .0 .0 .0 .0 .0 T 1.9 (*Hail was included in Snowfall Period of Record: Precipitation 1943-1946, 1957-1965 Summary prior to January 1956)	2.3 .9 uded in Snowfall to January 1956)	.9 Snowfa. ry 1956	1.1 11 P	.0 eriod	.0 of Rec	ord:	.0 Precipi Snowfal	.0 itatior Ll	0.19401 19401	3-1946 3-195	T 1957. 7-1965	1.9 -1965	6.2

Surface Winds (Knots) - Record Peak Gusts

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	37	
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MSM	20	•
WSM	51	
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Wind Direction	Velocity	

Maximum and/or Minimum Anemometer Height: 110 feet 03/59; 13 feet 11/60

SEYMOUR-JOHNSON AFB, GOLDSBORO, NORTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Decurrences of Calor of Calor of Calor of Calor of Calors of	31.7	34.5	39.3	33.1	24.5	2,5	25.3	21 .8	89.8	1: secontriuoco istor noisiv of encitourisato	18.4	25.5	25.5	9.01	6.3	10.2	12.3	12.9	15.5
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	ezeR 10/bas extons	16.5	6.91	19.8	16.8	6.51	15.6	15.3	1,61	16.2	ezañ ro\bas ezomS	9.5	10.9	7.01	6,6	4.5	5.4	0.8	7.1	7:1
	P08	16.9	20.7	25.9	17.2	13.5	11.2	11.7	12.6	16.2	30A.	10.3	17.2	17.4	9,4	2.8	5.6	0.4	6.2	8.1
	Total Occurrences of Precipitations	6.91	15.9	15.1	15.5	2.41	15.2	0.44	14.3	14.8	Total Cocurrences of Precipitation	4.6	8.7	6.1	6.6	7.1	4.7	7.0	8.5	9.1
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FEB	eizzivū mokāna nizd	6.51	14.9	14.0	9.41	14.2	11.5	13.3	13.5	14.0	elssivü vo∖bne nisR	4.8	7.3	6.1	6.5	1.1	4.7	0*2	6.5	1.6
şnı	Thunder (With or Witho	7.	1	1	1	:	7	.5	٦.	-:	Juodzik no silka su sinduri Precipization)	9.	۲.	ŗ.	.e.	æ.	1.5	6.9	1.8	7.0
	Cloud Cover 13/10	43.7	43.3	38.5	. 6.46	31.5	31.4	37.0	41.6	37.7	Cloud Cover 53/10	52.2	48.7	38.5	41.4	5.06	6.00	μο·3	£.3	41.5
20,	\bns 37 0004> sgmilleD M 3> seitlidieIV.	39.7 4	41.4	h6.4-3	39.3	33.8	30.6	32.9	36.1	37.6	Cellings <pre> 4000 Ft scd/or Visibilities <6 Mi</pre>	23.1	31.0 1	29.1	22.5	21.4	0.71	12.6	16.1	28.3
20,	\day f > 5002> sgmille0 \day f \ selfillidlsiv	23.4 3	24.5 4	8.98	22.5 3	19.7	17.2	18.4	19.5	21.5	Tokana 7 0000 senining Visibilititia	12.3	35.9	17.5	13.6	7.7	6.0	6.4	8.7	n.0
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	Total Occurrences of Obstructions to Vision	31.4	75.7	39.0	35.3	23.4	24.7	30.1	28.7	7.06	foral decurrences of Obstructions to Wislon	8.3	7.72	34.3	21.3	15.9	14.2	16.4	19.3	ีนี
	Tolbas (Blowing and/or Suspended)		}	1	į	1	1	1	į	•	Dust (Blowing andlor Suspended)		1	ì	ç	۲.	ú	ci.	į	ų.
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	Total Josephysics of Presidents and Post Spirit Spi	1.6 16.7	18.8 18.	22.7 24.0	14.2 23.	6 t.R	3.5	10.9 22.	12,3 80	12.1 14.2 20.1	3-91E TO LAIM WORD LIENT TO WANNING LEAST TO CLEAST GOLDANISTON 307 928H TO LAIM SWORD	0 11.5	.2 17.4 12.	21.8	11.11	10.4 8.3	6.3	9.5 7.6	11.2 9.0	11.1 11.6 11.3
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ır	Precipinal or Viboco Precipinal or Calif. Sand and for State Free Last Scarmences of Precipinal or State Soow and for See See See See See See See See See Se	47.6 9.7 .7 1.3 11.6 16.7	146,5 .1 9.0 .9 1.6 11.3 18.8 18.	36.6 .2 10.8 .9 1.4 .1 12.9 22.7 24.0	33.7 10.8 .3 2.3 13.1 14.2 23.	34,4 3.6 1,0 2.3 10.6 5.8	35.1 9.7 .7 1.8 .1 II.3 2.5	.95 9.9 (11 3.4 3. 9.9 1.04)	05 E. 21 13.7 12.3 30 1.9 13.7 12.3 30	40.1 .0 9.9 .8 1.8 .0 12.1 l ³ .2 20.1	ATTENTION OF THE STREET OF THE	9 47.6 .3 11.7 .1 .3 12.0 11.5	.3 11.75 12.2 17.4 12.	36.0 .2 10.97 11.5 21.8	8 34.5 .1 10.1 1.0 1.7 11.1 10.	9.98 10.4 6.3	2 ,5 9.97 10.6 6.3	3.7 3.6 L. 4. S. E.9 4.	.2 10.4 .4 .3 11.2 9.0	.3 10.5 1. 1.6 .0 11.1 11.6 11.3
ır	Smore worklow process of the control	37.6 47.6 9.7 7. 7.3 11.6 16.7	40,9 46,5 .1 9.0 .9 1.6 11,3 18.8 18	45.5 30.6 .2 to 8 .9 1.4 .1 12.9 22.7 24.0	39.3 33.7 10.8 .3 2.3 13.1 14.2 23.	31.9 34.4 8.6 1.0 2.3 4.4.6 5.8	30.1 35.1 3.7 .9 1.8 .1 11.3 9.5	.35. 9.01 0.11 3.4 3. 9.9 11.04 E.3E	33.8 44.8 .1 11.4 .6 1.9 13.7 12.3 80	.8 36.4 40.1 1.0 9.9 .8 1.8 .0 12.1 14.2 20.1	MAA Olike and Tolone and Tolone MAR MAR MAR MAR MAR MAR MAR MA	2 26.9 47.6 .3 11.7 .1 .3 12.0 11.5	47.2 .3 11.75 12.2 17.4 12.	36.0 .2 10.97 11.5 21.8	8 34.5 .1 10.1 1.0 1.7 11.1 10.	4 32,6 9,98 10,4 8.3	8 32.2 .5 9.97 10.6 6.3	37.6 .4 9.3 .2 .4 .1 3.8 7.6	48.4 ,2 10.4 ,4 ,3 11.2 9.0	6 39.7 .3 10.5 1. 1.6 .0 11.1 11.6 11.3
.r.	Page 19 Ocham adomate 20 Ocham ad Ocham ad Ocham adomate 20 Ocham adomate	20.7 37.6 47.6 9.7 7. 1.3 11.6 16.7	24.1 40.9 46.5 .1 9.0 .9 1.6 11.3 18.8 18.	27.0 45.5 36.6 .2 10.8 .9 1.4 .1 12.9 22.7 24.0	23.1 39.3 33.7 10.8 .0 2.3 13.1 14.2 23.	34,4 3.6 1,0 2.3 10.6 5.8	30.1 35.1 3.7 .9 1.8 .1 11.3 9.5	.95 9.9 (11 3.4 3. 9.9 1.04)	33.8 44.8 .1 12.3 .4 .6 1.9 13.7 12.3 80	36.4 40.1 .0 9.9 .8 1.8 .0 12.1 14.2 20.1	AAA STATE TO	15.2 28.9 47.8 .3 11.7 .1 .3 12.0 11.5	4 33.9 47.2 .3 11.75 12.2 17.4 L2.	39.5 36.0 .2 10.97 11.5 21.8	3 29.8 34.5 .1 10.1 1.0 1.0.9 11.1 10.	8 26.4 32,6 9.98 10.4 8.3	21.8 32.2 .5 9.97 10.6 6.3	8 23.8 37.6 1, 4 9.3 .2 .4 .1 3.8 7.6	25.0 48.4 ,2 10.4 ,4 ,3 11.2 9.0	e 28.6 39.7 .3 to, 5, 1, 6, 0, 11, 11,6 11,3
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

--- indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

SEYMOUR-JOHNSON AFB, GOLDSBORO, NORTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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ntrences of	Dapuaisns	88	94	4	16	- 12.4	11.9	- 15	18.3	£.	Suspended)	. 37.	- 55.	- 60.5	- 27.9	. 17.1	1 16.5	- 24.0	9.12 -	.0 33.3
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ezadi 10).	Smoke and	17.1	8	83	12.1	ន	9.5	11.6	13.3	, ,	Sasi Tolbin Salons	24.0	5,	89	23.	15.	15.	8	23	21.6
	904	11.7	3.5	24.0	5.5	2.5	ς. Θ	ω, 60	5.5	10.8	Уой	17.3	9.04	₹.3	6.8	2.2	1.7	4	6.7	15.6
To secnotiv Goli	own tatof adiqiosaf	6.7	5.3	5.6	5.3	8.2	8.8	3.2	9,5	7.5	To securrences of freelplating	5.7	6.5	5.5	5.0	5.6	ej e	6.9	7.0	9
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31/85 44	Cloud Cov	50.5	42.7	31.3	33.9	23.€	8,6	80	16.2	34.6	CINES TOWNS bucks	50.1	43.7	25.1	7.73	19.9	0.08	6.9	43.4	32.5
то\bив #1 0094- iM Э· зеi		26.2	46.5	42.9	31.4	30.6	2.7	21.1	21.5	30.9	ookban 14 0004 - mailiah BM 3 - maililidiah	35.7	35.2	59.8	36.8	30.2	21.8	24.1	55.6	36.2
Think of 300% IM Exists.	Cellings Vitibilativ	12.6	23.1	25.6	17.0	6.6	9.0	6:5	8.2	14.1	⇒Apon *4 000% agailin⊄i iM t> soisilidisiV	12.c	0.62	37.1	19.9	9.6	2.0	4.9	6.9	15.6
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to source of the control of the cont	And knowed and knowed and knowed and knowe of the local part of th	7 14 10.4 19.	. 6.7 25.3 13.6 34.	3 19.0 15.1 31.	3 p. b 6.3 aa	1 .5 3.3	1.6 3.11	2. 2.2 5.1	4.5 7.5	3 6.2 6.1c 15.	Therefor Sales and Sales a	5 12.2 18.9 5	3 32.2 20.3	5 28.6 22.8 44.	c 5.3 13.5 18.	7.0 8.0 9.7 111.7	11.3 1.6 11.2 12.	15.6	3.7 16.1 19.	11.2 16.0 25.0
AAX To so so so so so so so so so so so so so	And knowed and knowed and knowed and knowe of the local part of th	5.7 5.7 11.4 16.4 19.	7 5.7 25.3 13.6 34.	5.3 5.3 19.0 15.1 31.	1 5.1 2.2 6.3 8.	5.1 .5 3.3	7.9 7.9 1.6 3.11	. 5.1 6.0 2.2 5.12	6.9 4.5 7.5	6.3 6.2 6.1 15.	To the state of the first the state of the s	5.5 5.5 12.2 18.9	6.3 6.3 32.2 20.3	5 6.5 28.6 22.8 44.	6.0 13.5 18.	2.0 9.7 11.7	11.3 11.3 1.6 11.2 12.	3 11.1 3.6 15.6 3	7.1 3.7 16.1 19.	9 7.6 25.0 25.0
MAX And The Anti- And The Anti- And The Anti- A	than almost and and and and and and and and and and	\$ 1.5 5.7 5.7 17.4 1C.4 19.	3 6.7 6.7 85.3 13.6 34.	9 .2 5.3 5.3 13.4 15.1 31.	4 .6 5.1 5.1 2.2 6.3 a.	5.1 5.1 3.3	1,3 7,9 1,9 1,6 3,21	1 3.0 5.0 5.0 5.1 5.1 5.1 5.1	1 2.2 6.9 6.9 4.5 7.5	.2 1.4 6.3 6.3 6.2 6.12 15.	privi generation: (micharted)	8 1.7 5.5 5.5 12.2 18.9	5 .9 6.3 6.3 32.2 20.3	2 .4 6.5 6.5 26.6 22.8 44.	c .7 6.c 12. 6.c 5.3 13.5 18.	E 1.8 7.0 7.0 8.0 9.7 11.7	7.4 11.3 11.3 1.6 11.2 12.	3 6.3 11.1 11.1 3.6 15.6	.2 3.7 7.1 7.1 3.7 16.1 19.	5 2.9 7.6 7.6 11.2 16.0 25.0
WAX Angulary A	Chome and selection with the selection of the selection o	8 48.5 1.5 5.7 5.7 11.14 16.4 19.	o Lc.3 6.7 6.7 25.3 13.6 34.	6 88.8 .2 5.3 5.3 13.0 15.1 31.	2 29.4 .6 5.1 5.1 5.2 6.3 8.	24.1 .9 5.1 5.1 5.1 5.3	23.1 1.3 7.9 7.9 1.6 3.11	.2 26.1 3.0 5.0 6.0 2.2 5.12	46.1 2.2 6.9 6.9 4.5 7.5	.4 33.2 1.4 6.3 6.3 6.2 6.12 15.	April Dennasseur of contaction of contaction of contaction of plant (plantic war), a contaction of c	5 46.8 1.7 5.5 5.5 12.2 18.9	lic.5 .9 6.3 6.3 32.2 20.3	26.2 .4 6.5 6.5 28.6 22,8 44.	22.0 .7 6.0 18.5 18.5 18.	16.8 1.8 7.0 7.7 2.0 9.7 11.7	16.7 7.4 11.3 12.	20.3 6.3 11.1 11.1 3.6 15.6	37.2 3.7 7.1 7.1 3.7 16.1 19.	1, 26.5 2.9 7.6 7.6 11.2 16.0 85.0
**************************************	sagnities sagnities	8 25.8 48.5 1.5 5.7 5.7 11.4 10.4 19.	36.0 kg. 3 .2 6.7 6.7 25.3 13.6 34.	9 34.6 28.9 .2 5.3 5.5 17.2 15.1 31.	24.2 29.4 .6 5.1 5.1 2.2 6.3 8.	22.3 24.1 .9 5.1 5.1 5.1 5.3	17.0 23.1 1.3 7.9 7.9 1.6 3.11	16.2 26.1 3.0 5.0 6.0 2.2 5.12	17.2 46.1 2.2 6.3 6.3 6.3 4.5 7.5	.5 24.4 33.2 1.4 6.3 6.3 6.2 6.1: 15.	DISCONDENSION CONTRACTOR OF THE CONTRACTOR OF TH	28.5 46.8 1.7 5.5 5.5 12.2 18.9	46.9 40.5 .9 6.3 6.3 32.2 20.3	2 46.8 26.2 .4 6.5 44.	35.7 22.0 .7 6.0 6.0 5.3 13.5 18.	33.7 16.5 1.6 7.5 7.7 2.0 9.7 11.7	25.1 16.7 7.4 11.3 11.3 1.6 11.2 12.	20.1 20.3 6.3 11.1 11.1 3.6 15.6	19.7 37.2 3.7 7.1 19.	6 38.1 28.5 2.9 7.6 7.6 11.2 16.0 25.0
MAY To the control of the control o	agenticing and according to the control of the cont	25.8 48.5 1.5 5.7 5.7 11.4 16.4 19.	o Lc.3 6.7 6.7 25.3 13.6 34.	34.6 28.9 .2 5.3 5.3 10.0 15.1 31.	2 29.4 .6 5.1 5.1 5.2 6.3 8.	7.6 22.3 24.1 .9 5.1 5.1 .5 3.3	23.1 1.3 7.9 7.9 1.6 3.11	.2 26.1 3.0 5.0 6.0 2.2 5.12	46.1 2.2 6.9 6.9 4.5 7.5	24.4 33.2 1.4 6.3 6.3 6.2 6.1: 15.	THE CONTROL OF THE CO	5 46.8 1.7 5.5 5.5 12.2 18.9	21.2 46.9 40.5 .9 6.3 6.3 32.2 80.3	28.2 46.8 26.2 .4 6.5 6.5 28.6 22.8 44.	. 20.7 35.7 22.0 .7 6.0 16.	16.8 1.8 7.0 7.7 2.0 9.7 11.7	16.7 7.4 11.3 12.	20.3 6.3 11.1 11.1 3.6 15.6	37.2 3.7 7.1 7.1 3.7 16.1 19.	22.1 26.5 2.9 7.6 7.6 11.2 16.0 25.0
To sometime to the property of	mantiabo man	.4 11.8 25.8 48.5 1.5 5.7 5.7 11.4 16.4 19.	2.4 9.4 36.0 Lc.3 .8 6.7 6.7 2).3 13.6 34.	8.2 19.9 Jul 28.6 2.2 5.3 31. 5.3 13.1 15.1 31.	5 13.6 24.2 29.4 .6 5.1 5.1 2.2 6.3 8.	7.6 22.3 24.1 .9 5.1 5.15 3.3	5.6 17.0 23.1 1.3 7.9 7.9 1.6 3.21	.1 6.9 16.2 26.1 3.0 5.0 6.0 2.2 5.12	6 7.4 17.2 46.1 2.2 6.3 6.9 4.5 7.5	.6 11.5 24.4 33.2 1.4 6.3 6.3 6.2 6.1: 15.	The conservation of the control of t	3 11.0 28.5 46.8 1.7 5.5 5.5 12.2 18.9	1.9 21.2 46.9 40.5 .9 6.3 6.3 32.2 20.3	1.3 26.2 46.6 26.2 ,4 6.5 6.5 28.6 22.8 44.	20.7 35.7 22.0 .7 6.0 6.0 5.3 13.5 18.	9.9 33.7 16.6 1.6 7.0 7.7 8.0 9.7 11.7	.2 6.8 25.1 16.7 7.4 11.3 11.3 1.6 11.2 12.	.1 5.4 20.1 20.3 6.3 11.1 11.1 3.6 15.6	.2 5.4 19.7 37.2 3.7 7.1 7.1 3.7 16.1 19.	5 13.6 32.1 26.5 2.9 7.6 7.6 11.2 16.0 25.0
MAX Angle of the control of the con	mantiabo man	8 25.8 48.5 1.5 5.7 5.7 11.4 10.4 19.	4 9.4 36.0 kg.3 .8 6.7 6.7 25.3 13.6 34.	2 19.9 Ju. 6 28.9 2 5.3 5.3 10.1 15.1 31.	24.2 29.4 .6 5.1 5.1 2.2 6.3 8.	7.6 22.3 24.1 .9 5.1 5.1 .5 3.3	17.0 23.1 1.3 7.9 7.9 1.6 3.11	6.9 16.2 26.1 3.0 5.0 5.0 5.12	17.2 46.1 2.2 6.3 6.3 6.3 4.5 7.5	11.5 24.4 33.2 1.4 6.3 6.3 6.2 6.1 : 15.	The contraction of the contracti	11.0 28.5 46.6 1.7 5.5 5.5 12.2 18.9	21.2 46.9 40.5 .9 6.3 6.3 32.2 80.3	28.2 46.8 26.2 .4 6.5 6.5 28.6 22.8 44.	. 20.7 35.7 22.0 .7 6.0 16.	33.7 16.5 1.6 7.5 7.7 2.0 9.7 11.7	6.8 25.1 16.7 7.4 11.3 12.	5.4 20.1 20.3 6.3 11.1 11.1 3.6 15.6	5.4 19.7 37.2 3.7 7.1 19.	13.6 36.1 26.5 2.9 7.6 7.6 11.2 16.0 25.0

 $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

SEYMOUR-JOHNSON AFB, GOLDSBORO, NORTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

5	To secontracco LadoT Obstructions to Vision	35.7	45.5	54.3	26.5	11.3	6.6	80.6	67.6	28.9	=	rences of a	noso imioT noiteuritado	22.7	9,6	34.1	27.1	15.6	15.9	18.9	50.0	8,5	
	To\bas gaiwolf) fund Suspended)	1	1	į	i	}	}	i	:	i		To\bas Sa	Suspended)	1	į		į	į	i	1	į	1	
	growing snew		{	į	ŀ	;	1	1	İ	1			Blowing Snor	1	i	į	1	;	į	ŧ	}	ļ	
	exam to/bms extems	18.7	19.9	₹9,1	17.4	E. 2	7.5	16.8	16.0	9.91		ezeH 7	c/pure analones	11.0	11.7	18.1	17.4	9.3	9.1	10.5	6.6	12.1	
	302	23.4	35.2	41.9	12,3	3.9	5.6	5.0	12.8	17.1			90તું	13.7	17.4	89.9	15.1	4.	9.0	10,0	15.1	12.7	
	To asomerances of Precipitation	1:1	7.5	8.5	5.7	0.9	5.9	۲.0	7.1	6.9			russO latoT SitatiqiseTF	6.01	11,2	11.1	17.1	11.4	11.5	10.7	11.3	11.1	
	. 38 17	i	:	1	1			i	;	1			Lime	1	į	}	٠:	i	i	ļ	į	•	
ER	1997S 10/pum wong		į	į	i	į	}	į	į	ŀ	ER	200[S	so/pan nous	ٺ	7.	Φ.	θ,	1.0	1:1	٠.	ij	۲-	
OCTOBE	To-bas miss Baisser Freezing Baisser?	1	ł	1	:	;	ŀ	;	}	1	CEMB	rolbae al afizi	ief gaiseer? int gaiseer?	ci.	- ₹.	7.	5.	9.	۴.	ŗ.	₹.	-4.	
0	eizzird molbas nisk	7.7	7.5	8.5	5.7	0.9	5.9	1.0	7.7	6.9	DEC	Hizzir	Rein and for	4.01	10.8	9.8	10.2	9.9	10.2	9.6	9.01	10.1	
Çn:	ontik to diik) mebandi Galimiiqiberi Amilmiiqiberi	≠ .	۲.	ļ	:	7.	o.	~	÷.	ιż	şn.	one Witter	ik: rebnudī listigiosas	7	۲:		ri.	7.	τ:	۲.	ί	τ.	
	ST.ST daws proto	59.3	56.1	9.9	4.74	45.1	42.1	51.4	56.9	51.0		01/67	Cloud Scver	55.1	53.8	41.8	37.6	38.0	36.7	£.43	49.5	9.44	
æ,	Cellings <-Oll Ft settings (*Oll Ft settings)	37.4	1.7.1	54.1	30.3	21.8	17.5	22.5	27.7	32.3	40	. bas #7 000	Ceilings <45 Visibilitiele	26.7	25.1	36.2	30.7	8,45	24.5	4.62	55.6	28.8	
at.	Ceillings <2000 Ft and: Wielbilities +3 Mi	17.9	25.2	31.4	17.3	9.5	4:5	9.1	11.2	16.2	40	1 43 ME 100 Sc audi	Gettings <50	15.8	16.9	8	16.7	15.7	13.2	13.7	15.4	16.0	
æ	o'bme d9 909> egailie0 M Sil> seifilidialV	5,5	4.8	4.9	ů.	٦.	:	ςų	ú	1.6	z	x. bne 19 0/ x. Ft sudv	Meilings </td <td>7:2</td> <td>8.8</td> <td>3.5</td> <td>6.</td> <td>÷</td> <td>÷</td> <td>1.1</td> <td>1.1</td> <td>1.5</td> <td></td>	7:2	8.8	3.5	6.	÷	÷	1.1	1.1	1.5	
	enoliseviesdO To medmuN	1,209	1,209	1,209	1,209	1,308	1,208	1,208	1,209	699'6		09 -1 39 6 3 4 6 1	aumber of Ob	1,168	1,170	1,170	1,170	1,169	1,170	1,170	1,170	9,357	
	Rours	20-00	93-05	90-90	09-11	71-21	15-17	18-20	21-53	All Hours			simon	2000	03-05	9090	39-11	12-19	15-17	18-20	21-23	All Hours	
	'	r												1									
		1												ı									
	To sendernood ison Obstructions to Vision	31.5	47.3	57.6	95.6	10.8	13.0	19.7	0.22	28.1		to sapra- noisiv of	Total Securi	32.5	35.7	48.0	39.5	15.7	6.91	22.1	7.42	28.1	
	Dust (Blowing and/or Suspended) Total Occurrences of Obstructions to Vision	31.5	47.3	.1 57.6	22.6		13.0	7.61	22.0	.0 28.1		jo sabua.	ivold) Jeud (bebrageu2 mussO LetoT molifamifedO		35.7	48.0	3.5	15.7	6.91	22.1	7.12	58.	
	Suspended)		Ltt t	.1 57.6	22.6		13.0	19.7	22.0	0.		Tolbas R	Suspended)	32.	35.7	0.84	:	15.7	16.	22.1	!	58	
	To\bas gaivoid) faud (bebraegas) lo sesmerimoso fatoT		19.8 47.3	24.7 13 57.6	16.3 22.6		9.3 13.0	15.3 19.7	15.7 22.0	°,		Tolbas R	niwold) jeud (bebraqeu2 muss0 fedoT	8	17.5 35.7	24.7 48.0	3.3	11.7 15.7	13.9 16.	17.6 22.1	18.0 24.7	58.	
	Soff secke and/or Hase Plowing Snow Plowing Snowing and/or Suppreded: To Spanish and or To Spanish and	4	74 8:	75 1 1.	22	6 10.	3		7 22	0 6.		essere.	Fog. Smoke and/or Blowing chow Dust (Blowing chow Guspended)	.6 32.	23.4 17.5	84 t.	:	4	16.	9	0	13.6 17.7 28.	
	Smoke and/or Haze Plowing Snow Plowing Snow Plowing and/or Plowing Snow Plowing S	.2 18.4	19.8 47	1 24.7 1 57	16.3 22.	1 8,6 10.	9.3	15.3	15.7 22	6 16.0 0.0		azak nolane a	nc/bne sword word antword word private for (Bloomegang (boomegang)	3 17.6 32.	.4 17.5	0 24.7 48	3.3	11.7	13.9 16.	17.8	18.0	.6 17.7 28.	
	Scottistisca Smoke and/or Hase Place (Blowing and/or Place and/or Hase Place and/or H	16.2 18.4	33.6 19.8 47	41.1 24.71 57	t 7.1 16.3 22.	2,1 8,6 10.	h 3.7 9.3	5.3 15.3	7.5 15.7 22	14.6 16.00		azak nolane a	Precipination of the control of the card o	7.4 18.3 17.6 32.	23.4 17.5	h 33.0 24.7 48	ш.г го.3	0 4,5 11.7	5.3 3.0 13.9 16.	6.5 5.1 17.8	6.9 9.1 18.0	7.1 13.6 17.7 28.	
ER	Just Tolbha Vond 1288 To engeermood, fasty Activities of selections and selections Soft Tolbha Activities of the selections and selections and selections and selections and selections and selections of the selections and selections and selections are selected to select the selection of the	7.3 16.2 18.4	33.6 19.8 47	41.1 24.71 57	t 7.1 16.3 22.	2,1 8,6 10.	. 10.4 3.7 9.3	5.3 15.3	7.5 15.7 22	8,1 14,6 16,90	BER	To show a seek.	Tolene work Lien Control Major Sod Tolene skoed Tolen	18.3 17.6 32.	23.4 17.5	h 33.0 24.7 48	ш.г го.3	0 4,5 11.7	3 3.0 13.9 16.	5.1 17.8	9.1 18.0	7.1 13.6 17.7 28.	
ER	TARE To appearance of foother and/or Hoof Showing Snow Snowing Snow Snow Snow Snow Snow Snow Snow Snow	7.3 16.2 18.4	33.6 19.8 47	7.3 41.1 24.7 7.5	t 7.1 16.3 22.	2,1 8,6 10.	10.4 3.7 9.3	9.9 5.3 15.3	22 7.5 7.5 15.7 22	6.1 14.6 16.90	ЕМВЕК	avaic ava avaic avaic ava ava ava ava ava ava ava ava ava av	Those Tweet ind Surrough the Control of Surrough the Control of Surrough the Control of Surrough the Control of Surrough the Control of Surrough the Control of Surrough the Control of Surrough the Sur	.2 7.4 18.3 17.6 38.	7.9 23.4 17.5	9.h 33.0 24.7 48	7.0 11.2 20.3	6.0 4.5 11.7	5.3 3.0 13.9 16.	6.5 5.1 17.8	2 6.9 9.1 18.0	1, 7,1 13,6 17,7 28.	
	atizit() Te/an mink Town John and William of John and William John And Wilson State of Section 2008 and Wilson And Wilson Wilso	7.3 7.3 16.2 18.4	8.1 6.1 33.6 19.8 47	7.3 7.3 41.1 24.7 1 57	6.6 6.4 7.1 16.3 22.	7.4 7.4 2.1 8.6 10	10.4 10.4 3.7 9.3	9.9 15.3 15.3	7.5 7.5 7.5 15.7 22	0.1 6.1 14,6 16,90	МВЕК	etration for another a control of a control	Lopur UTS6	7.32 7.4 18.3 17.6 38.	7.9 7.9 23.4 17.5	9.4 9.4 33.0 24.7 4.8	7.0 7.0 11.2 20.3	6.0 4.5 11.7	5.12 5.3 3.0 13.9 16.	6.42 6.5 5.1 17.8	6.82 6.9 9.1 18.0	7.01 7.1 13.6 17.7 28.	
SEPTEMBER	Freezing Hain and/or Suppendent Sove and/or Steep Sove and/or Hose Sove and/or Hose Sove and/or Hose Presidents and/or Presidents and/or Presidents and/or Presidents and/or No. 100 April	7.3 16.2 18.4	.7 8.1 6.1 33.6 19.8 47	7.3 7.3 41.1 24.71 57	.1 6.6 6.4 7.1 16.3 22.	.4 7.4 10. 4.7 4 2.1 8.6 10.	2.8 10.4 10.4 3.7 9.3	2,2 9,9 9,9 5,3 15,3	.9 7.5 25 7.5 15.7 28	6.1 14.6 16.90	NOVEMBER	non Fitznor management manag	(populadang track) para track track) tend track	.3 7.32 7.4 18.3 17.6 38.	.1 7.9 7.9 23.4 17.5	,2 9,4 9.4 33.0 24.7 48	.1 7.0 7.0 11.2 20.3	,1 6.0 6.0 4.5 11.7	.1 5.12 5.3 3.0 13.9 16.	.2 6,42 6.5 5.1 17.8	.2 6.82 6.9 9.1 18.0	.1 7.01 7.1 13.6 17.7 28.	
SEPTEMBER	Cicud Gover 19/10 Pare (Stowner of Cicud Gover 19/10 Pare (Stowner of Cicud Gover 19/10 Precipitation Preci	7.3 7.3 16.2 18.4	8.1 6.1 33.6 19.8 47	39.1 7.3 th.1 24.1 24.71 57	36.3 .1 6.6 6.4 7.1 16.3 22.	27.2 .4 7.4 7.4 2,1 8.6 10	30.2 2.8 10.4 10.4 3.7 9.3	39.9 2.2 9.9 9.9 5.3 15.3	96.0 .9 7.5 7.5 7.5 7.5 15.7 22	62.4 1.9 6.1 8.1 14.6 16.90	NOVEMBER	orsaire ors	Cloud Cover	55.5 .3 7.32 7.4 18.3 17.6 32.	55.6 .1 7.9 7.9 23.4 17.5	42.9 .2 9.4 48 33.0 24.7 48	40.8 .1 7.0 7.0 11.2 20.3	35.6 ,1 6,0 6,0 4,5 11.7	36.2 .1 5.12 5.3 3.0 13.9 16.	45.9 .2 6.42 6.5 5.1 17.8	52.6 .2 6.82 6.9 9.1 18.0	45,6 .1 7.01 7.1 13,6 17,7 28.	
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SEYMOUR-JOHNSON AFB, GOLDSBORO, NORTH CAROLINA WIND ROSES

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SEYMOUR-JOHNSON AFB, GOLDSBORO, NORTH CAROLINA

WIND ROSES

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×××		11-16 17-21 22-27 28-33 34-46 41-47 48-59 355 Total	1.9 1.6 .7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1 .6 .3 .0 2.1 1.0 .9 .2 .0 .	14.0 18.2 28.4 10.5 1.1 .1 100.0	TOTAL HAMBER OF UBSERVATIONS 9672	JULY	Speed in Knots	11-16 17-21 22-27 28-33 34-40 41-47 48-55 256 Total	0000 0000 0000 0000	2.2 1.0 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.1 2.2 2.0 2.0 2.1 2.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.1 1.1 .0 .0 .4 .0 .1 .1 .0 .0 .4 .6 .0 .1 .1 .0 .0 .1 .1 .0 .0 .1 .1 .0 .0 .1 .1 .0 .0 .1 .1 .0 .0 .1 .1 .0 .0 .0 .1 .1 .0 .0 .0 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	3.5 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0. 0. 0.	32.1 21.8 6.5 .8 .1 .0 100.0	
××××		6-6 7-10 11-16 17-21 22-27 29-33 30-40 41-47 48-55 550 Total	7 1.9 1.6 .7 .0 .0 .0 .49 .7 .1 .9 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	11. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	11 15 15 15 15 15 15 15 15 15 15 15 15 1	2 1.1 .6 .3 .0 .8.73 1.09	14.0 27.6 28.2 28.4 10.5 1.1 .1 .1 .1 .200.0	TOTAL HAMBER OF UBSERVATIONS 9672	JULY	Speed in Knots	0-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 01-47 48-55 256 Total	10 1.5 1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.8 2.2 1.0 .2 .0 5.2 1.1 1.3 1.4 .1 .0 .2.9 1.5 1.8 .8 .1 .0 .1.1	3.3 4.6 2.7 4. 0. 0. 4.8 3.3 4.6 2.7 4. 0. 0. 0. 4.8 3.3 4.6 2.7 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1.5 3.5 3.6 1.4 1.1 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0. 1 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	. 3 . 7 . 8 . 0 . 0 . 4 . 15 . 19 . 19 . 19 . 19 . 19 . 19 . 19	38.8 38.1 21.6 6.5 .8 .1 .0	
×××		6-6 7-10 11-16 17-21 22-27 29-33 30-40 41-47 48-55 550 Total	1.9 1.6 .7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	11. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	11 15 15 15 15 15 15 15 15 15 15 15 15 1	2 1.1 .8 .3 .0 .8.73 1.09 .2	14.0 27.6 28.2 28.4 10.5 1.1 .1 .1 .1 .200.0	TOTAL HAMBER OF DESIGNATIONS 9672	JULY	Speed in Knots	0-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 01-47 48-55 256 Total	1.5 1.7 1.5 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.8 2.2 1.0 .2 .0 5.2 1.1 1.3 1.4 .1 .0 .2.9 1.5 1.8 .8 .1 .0 .1.1	3.3 4.6 2.7 4. 0. 0. 4.8 3.3 4.6 2.7 4. 0. 0. 0. 4.8 3.3 4.6 2.7 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1.5 3.5 3.6 1.4 1.1 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0. 1 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	. 3 . 7 . 8 . 0 . 0 . 4 . 15 . 19 . 19 . 19 . 19 . 19 . 19 . 19	38.8 38.1 21.6 6.5 .8 .1 .0	

SEYMOUR-JOHNSON AFB, GOLDSBORO, NORTH CAROLINA

WIND ROSES

	Kean	Speed	2000 - 20	4.7		š	Wind	Speed		5.3	
		Total	4 000 00 00 00 00 00 00 00 00 00 00 00 0	0.001	*			Tot al	ည်း နည်သည်။ မေရိုင်းသည်။ မေရိန	0.001	9357
		256			IONE	1	ì	3.56			IONS
		48-55			FOTAL TUMBER OF OBSERVATIONS			-B-55			TODAL NUMBER OF OBSERVATIONS
		73			100 M			4			GEST OF
		31-2	°.	o.	OTAL TUB			3410			DEAL NUM
ER	Knots	28-33	o,	o,	-	3ER		28-33	o oo	o.	1-1
OCTOBER	Speed in Knots	22-17	خخخ و و ووو	٦.		DECEMBER		25-54	60 00004000	₹.	
0	er.	is.	नन्तं ९ ९९न्९नं ९न्९९			DE		(F)	बांच्छ । बांच्यालांब्ब्ब्व्	3.5	
		3	स्य इंद्युवे विच्चे च्ये च्ये च्ये व्	6.3			1	97	تاهيغناه خاششغ بأرق وطنق أرق	9.6	
		ä	8.50 8.50 8.50 8.50 8.50 8.50 8.50 8.50	0.0			:	ÿ	2014 1100 1100 1100 1100 1100 1100 1100	23.2	
		3	adar-wwa wadaga da da da da da da da da da da da da da	1.98			,	Ŷ	waari ratatataa oo aa maa aa aa aa aa aa aa aa aa aa aa aa	27.5	
		3	1211 m 4 10 0 0 12 0 12 14 14 14 18 18 18 18 18 18 18 18 18 18 18 18 18	42.2				3		39.0	
		1,127	ACYC	£				77.5		332	
	Sales Sa Sales Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	376*4		6.4		Mean:	Wind	Speed		5.3	0
			900044044040400 m 900044001001000000000000000000000000000	0.001	9350		į	Tota:	မှာရာရေးကို မှုလိုက်လိုက်သို့ မှုနှင့် ရှိ မှာရေးသောက်သောက်သို့ မှုနှင့် ရှိသော မှာရေးမှာ မေးကို မေးကို မေးကို	100.0	986
		ž.,	o မှ	0	53213		74.	350			51013
		a)			COLUMBIA OF DESENCIORS			ų,			TOTAL NAMED OF OBSERVATIONS
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		1	o,	o,	3325		·	1	ą.	9	TOTAL NU
MBER	Y.C.	27	ଚ୍ଚ	0		ABER Eers	7	2) 40 10	ó	9	
SEPTEMBER	Spend in Mans	5	ोन्त ० ५न ०	çi		NOVEMBER	. 7	10	व वृत्तं प्रवृत्यु	ē.	
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		7	oownwwortewareoattw	3			;	Ş	૦૯૯૦૦ વર્ષા સ્વાનુસ્થાન ૧૯૯૦૦ વર્ષા	23.7	
		9		58.6			,	J.	নুৰ্ত্ত্ত্ত্ত্ৰত্ৰত্ৰত্ত্ত্ত্ত তেওঁৰনৰ নুৰ্ব্নুৰ্ত্ত্ত্ত্ত্ত্ত্	21.2	
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					6:	Speed in	Knots						Se S	
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NNE	ė	5.1	8.3	60	4	9	0.	o.				6.2	7.2	
NE	1.0	2.3	5.1	9.	7	0	o,					6.1	6.7	
EUE	œ.	1.6	1.2	ņ	o.	ç						e,	6.2	
ы	1.2	5.0	7	e.	ç	۰.						9.4	5.7	
ESE	90.	1.0	-₹.	۲.	ç	۰.						2.3	5.3	
35	0.7	1.5	æ.	ú	o.	0.	o.					3.6	5.8	
385	9.	1.3	ć.	۳.	7	o,		9				4.6	4.9	
(0)	1.1	5.7	5.1	60	7	ó	9					7.5	9.9	
NSS.	10	0.0	1.9	6.	-!	-:	o.	9				, e	2.6	
75	1:1	4.5	4.5	1.2	çá	7	9	9				4	7.8	
155.2	œ.	1.6	1.6	6.	7	o.	0	9	Ģ	ó		5.1	7.1	
72	1.3	2.3	8.0	0.1	Ģ	0.	0.	9	o			6.8	5	
PLAN.	9	7.5	7.7	s.	ď	٥.	o.					3.6	4.1	
1	40	9:7	4:4	w.	٦.	o.	e.	۰.			o.	9.4	7.3	
100	9		1.0	4	0.	o.					0	ř	6.8	
VAREL														
SKOK	19.1											1.61		
101	9.# #	8.5	54.6	6.6	1.5	4.	7	o.	9	o,	0	0.001	9.6	

ANNUAL

HOLLOMAN AFB ALAMOGORDO, NEW MEXICO (Lat. 32°51'N, Long. 106°05'W, Elev. 4070 ft.)

Holloman AFB lies ten miles to the southwest of the city of Alamogordo, New Mexico and the foothills of the Sacramento Mountain. These mountains rise abruptly to an average elevation of 8,000 feet, with one peak 40 miles to the northwest, reaching an elevation of 12,000 feet.

West of the Sacramento Mountains lies the Tularosa Basin, a nearly flat, north-south oriented valley about 100 miles long and 40 miles wide. Flanking the valley to the west are the Organ, San Andres and Oscura Mountains, with some peaks above 8,000 feet. Five miles to the west is the White Sands National Monument, a large area of pure gypsum sand. Narrowing gradually, the valley extends northward about 50 miles; to the south it opens into a vast rolling plain.

The climate is typical of desert regions as the mean annual precipitation is less than seven inches. Blowing dust can occur at any time during the year and is the most frequent cause of low visibilities, generally occurring in the afternoon when wind gusts may reach 25 knots or more. Dust-storms and strong gusty surface winds reach their greatest frequency during March and April. Thunderstorms occur all months of the year and are most frequent in July and August. During the winter, snow, freezing rain and light fog may restrict flying conditions for very short periods. In general, flying conditions are relatively good throughout the year.

The following data, except for the Temperature and Precipitation

Summary, are based on twenty-four hourly observations from September 1942
February 1946 and May 1946-November 1965; with the exception of cloud cover

for which data are not available prior to 1946.

HOLLOMAN AFB ALAMOGORDO, NEW MEXICO

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Тe	Temperature (°F)	ure (°	F)						
	Jan.	Feb.	Mar.	Apr.	Apr. May	June	July	June July Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	54.7	54.7 60.4	0.99	76.3	85.3	93.9	93.9	66.0 76.3 85.3 93.9 93.9 92.9 87.1 76.5 63.4	87.1	76.5	63.4	55.5	75.4
Mean	41.3	46.1	51.8	61.2	61.2 70.0 79.1	79.1		81.3 80.1 73.8	73.8		62.6 48.8	42.0	4.19
Minimum	27.7	27.7 31.6	37.4	45.9	54.4	0.49	68.3	37.4 45.9 54.4 64.0 68.3 67.1 60.2	60.2	48.3	33.9	28.2	47.2
			æ	ecord	Temper	ature	Record Temperature Extremes	Ω O					
Maximum	78	8	88	46	103	107	108	104	102	95	81	75	
Minimum	-11	0	18 P	23 eriod	23 31 $\mu\mu$ Period of Record:		55 56 1942-1964	56 364	38	30	12	α	
MONTHLY MEANS				Preci	Precipitation (Inches)	uI) uc	ches)						
Precipitation	34.	.35	.31	.17		.63	.30 .63 1.11	%	1.06	.77	.28	44.	6.83
Snowfall* 1.5 .8 (*Hail was included in Snowfall Summary prior to January 1956)	1.5 led in () Janual	1.5 .8 1 in Snowfa January 195	•	T eriod	T of Reco	ord:	.0 .0 : Precipit Snowfall	4 T T .O .O T Period of Record: Precipitation Snowfall		.0 1942-1964 1946-1964	7.	1.3	†. †

Surface Winds (Knots) - Record Peak Gusts

SSW	42	
М.	<u>1</u> 17	
MINIM	45	
MS.	45	
S	43	1964
ഗ്വ .	42	1952-
WINI WS	22	cord:
SW	23	of Re
MSM	\$	Period
MSM	7	
MSM	£	
WSM	29	
Wind Direction	Velocity	

Maximum and/or Minimum Anemometer Height: 55 feet 04/53; 13 feet 04/55

HOLLOMAN AFB, ALAMOGORDO, NEW MEXICO Percentage Frequencies of Occurrence of Specified Weather Conditions

•	Total Occurrences of Obstructions to Vision	4:	1.0	6	5.6	3.5	÷	3.5	1.7	2.6	To esourrence and Tayou Design of States	4.5	1	1.5	, S	4.9	6.9	6.8	9· *	÷.3
	Tolbie Adloving and/or Suspended)	۲.	9.	9.	1.6	3.1	 	3.5	1 .4	9.0	molecular and serious and seri	2.3	1.0	9	ci ci	6.2	8.9	6.8	9.4	1,
	won? Sniwold	i	;	٦.	i	{	ļ	ļ	ł	9.	Montag Snow	ŀ	ļ	;	;	;	į	;	ł	į
	Smoke and/or Haze	i	7	9.	7	7	1	i	;	7	staff to\bns salone?	7	ú	ø.	≠ .	сi	٦.	1	i	οi
	30%	٠.	₹.	7.0	6.	.≠.	4	ú	.₹	÷	Pog	٦.	٦:	٦.	i	ļ	;	;	1	ė
	Total Occurrences of Section	2.8	3.1	3.4	3.4	9.8	2.7	1.8	2,7	9. B	To seem Trace of Trac	ø;	7.5	1.8	1,2	1:3	1:3	7.5	o,	7
	रम् चा ः	1	;	į	į	ł	:	i	1	ļ	£2.0H	į	į	;	٠:	ᅻ	į	i	į	ó
RY	Snow and/or Sleet	6.	1.4	1.5	1:3	1.0	7.	۲.	1.0	1.1	lests 10/bns wond	i	;	į	٦.	7	7	i	į	ó.
FEBRUARY	ro/bas niss Baixserf Freezing Brizzerf	1	1	cń	٦.	;	į	;	ł	ó	AP To-bine nieß Briseers Preside nieses Briseers PR	i	i	ì	1	į	į	i	:	-
3	eissimu mobas alsa	1.9	1.7	1.7	3.1	1.8	1.5	1:1	1.7	1:1	SixxirC ro\bns mis8	œ,	1.2	1.2	1.2	1.3	1.3	1.2	è	7
ψn	Thunder (With or Without Trecipitation)	1	:	ļ	į	7	÷.	į	i	o.	inchil to Milk tabhudi (noisaigleard	ü	۲.	٦.	٦.	₫.	9.	ņ	Ċ	ú
	Cloud Cover 53/10	67.0	9:59	9.96	53.1	47.8	6.94	₹9.	63.4	96.9	Cloud Cover <3/10	8.8	9.69	59.4	57.0	51.4	9.54	53.3	62.9	9.0
1 0	Cellings <\$000 Ft and/ Visibilities <6 Mi	3.7	4.3	9:	5.0	6.2	6.9	5.0	3.5	÷.	no\bna #4 000#> agailfed IM &> asisifidialV	2.5	1.8	1.9	3.1	6.9	8.9	6.9	4.3	4.6
10	Ceilings <2000 Ft and/ Visibilities <3 Mi	1.7	1.7	6.5	3.1	3.5	3.6	1.8	1.2	2.3	To\bne FT BOOS = sgniii-50 IM E> selsilidielV	7:7	ωį	÷	1.1	7:3	5.1	3.6	1.7	
2	Cellings '200 Ft and/o	7.	7.	٠;	ij	₫.	₫.	7	۲.	ú	Cellings <200 Ft and/or Visibilities <1/2 Wi	∹:	7	7	۲.	7	9	ċ	ú	ú
	smoltrer of Observations	1,633	1,84	1,935	1,947	1,946	1,946	1,908	1,908	15,267	Shaber of Observerons	1,886	1,890	1,974	1,978	1,977	1,979	98,1	1,978	15,644
	#30mm#	20-05	93-05	90-90	09-11	13-14	15-17	18-20	21-23	All Hours	s.mog :	20-00	03-05	90-90	11-60	12-14	15-17	18-20	21-33	All Hours 1
			Ü	-							1				J			_		-
	Total Occurrences of Obstructions to Vision	1.2	7	oi oi	1.9	1.9	1.6	1.5	1.1	1.6	Total Occurrences of Made	1.7	1.5	17	4.6	7.3	10.4	6.9	3.7	9;
	Dust (Blowing and/or Suspended)	oi.	ė,	₹.	9	1.5	1.4	ė.	÷	٠.	Suspended)	1.6	1.2	1:1	0.4	7.1	10.3	6.8	3.6	4.5
	Blowing Snow	0	7.	1	ļ	;	i	i	į	o.	Mond Baiwold	ŀ	:	-	ł	į	;	1	į	i
	sank tollane salomE		o.	4	ď.	o.	ļ	i	ó	.1	Smoke and or Haze	į	7	ú		}	į	1	i	ę.
	Bog	ø.	بو	1.2	1.1	. * .	οį	ņ	æ		Ro [©]	7	ď	9.	9.	αĬ	o.	7.	o.	ú
	Total Occurrences of Trecipitation	£.3	3.9	9.4	4	3.8	3,6	3.6	3.9	0.	Total Occurrences of Precipitation	÷.		5.6	6.9	5.6	2.3	1.9	1.9	8.3
	: FeH	;	ì	i	ì	9	}	į	1	o.	He.t.)	i	:	i	o.	į	i	ţ	i	ó
ξX	Snow and/or Sleet	1.8	1.6	2.3	9.6	1.9	1.1	1.1	1.4	1.7	guon sing to greet	ĸ.	ę.	1.0	1.1	9.	s,	₫.	₫.	Αė
JANUARY	Treezing Baizest?	o;	;	į	ì	i	į	}	o.	o.	MARCALING States and vor	į	;	į	į	į	ì	į	i	;
Y	efazind rolbhe qie8	2.6	6.3	2.3	1.9	2.0	2.5	9.6	2.5	2.3	Sizzird no/bms miss	1.9	1.3	1.6	1.9	8.0	6	1.5	1.5	1.7
2r	Thunder (With or Witnor Precipitation)	-	}	į	o,	į	i	۲.	1	°.	Transfer (With or Without Transfer (With or Without Transfer (With the Without Transfer Transfer (With the Without Transfer Trans	1	į	į	o,	œ.	٠.	o,	ì	o.
	Cioud Cover 43/10	33	61.3	51.4	48.6	₹ .0	43.7	51.0	\$8.3	52.6	Cloud Cover 53/10	63.6	61.3	52.0	4.0%	1.1	42.3	51.4	59.7	53.1
.10	Ceilings <4000 Ft and A	5.3	5.8	7.0	. .	7.8	6.3	4.2	4.9	6.9	motens #9 0004> agmiliad im 8> asizilidiatV	6.9	ä	7	6.5	4.6	11.8	8.1	4,6	6.3
4:	:\bns 74 0000 sgniii+0 iM 5> seitiilidisiV	2.8	3.0	4,6	÷.3	3.7	3.0	2.1	ď.	3.1	Tollings '2000 sanilian WE's seizziidisty	ė.	ø.	1.8	9.6	7:4	4.9	4.0	1.7	9:
	Ceilings <200 Pt and/or Visibilities <1/2 Mi	ب	vi	89.	ņ	e;	ė	7:	į	Ŀ.	Tollings <200 Ft and/or Visibilities <1/2 Mi	İ	ł	αį	-₹,	,;	1.1	ī.	į	₹.
	snoisevreadO To redmink	2,046	2,046	2,105	2,137	2,139	2,136	640,5	2,046	16,704	Number of Shservations	1,952	1,953	2,041	2,040	2,043	2,039	2,043	2,039	16,150
	gomes	00-05	03-05	90-90	09-11	12-14	15-17	18-20	21-23	All Hours 1	Honis	80-00	03-05	90-90	09-11	12-14	15-17	18-20	21-53	A11 Hours
		1			-						*									

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time.
A blank indicates that the data are not available.

HOLLOMAN AFB, ALAMOGORDO, NEW MEXICO

Percentage Frequencies of Occurrence of Specified Weather Conditions

To securrence IstoT moisiv us amoispursedO	4.1	۲.	7.0	9		CV CV	2.7	9.0	1.4	Total meeting to Vision	'n	-4.	٦.	:	ci.	9.	κį	- 1 .	ú
Dust (Blowing and/or Suspended)	7.1	ż	-7.	-4,	.7	o.	2.7	2.0	1.3	Duck (Blowing and/or Suspended)	έ	÷.	1		٦:	9.	o,	-7.	αi
Honing Snow		1	1		1	;	i	1	-	won? Bulwold		1			i	1	1	;	-
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Cloud Gaver 1975	73.6	6.69	69.5	71.1	59.5	45.3	48.5	65.2	62.7	OE/FT acknowled proof	97.6	58.5	52.4	9.65	38.8	23.6	32.3	48.5	1.9
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

HOLLOMAN AFB, ALAMOGORDO, NEW MEXICO

Percentage Frequencies of Occurrence of Specified Weather Conditions

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	To esourrence of Total Occurrences obstructions	4	1.0	1.6	ò	1.0	1.0	υį	ĸ.	æ		Mrences of me to Vision	ueed imate? oitauratedD	1.1	2.2	3.7	2.8	2.5	1.5	1 .1	1.0	2.0
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Succession of Chaervacions

ANNUAL

HOLLOMAN AFB, ALAMOGORDO, NEW MEXICO WIND ROSES

AAMUARY State Data Dat												
PEBRUARY State Long Lo		Mean Section	Speed	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5.7	1		9 7	200		6.9	
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HOLLOMAN AFB, ALAMOGORDO, NEW MEXICO

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HOLLOMAN AFB, ALAMOGORDO, NEW MEXICO WIND ROSES

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McGUIRE AFB WRIGHTSTOWN, NEW JERSEY (Lat. 40°00'N, Long. 74°36'W, Elev. 148 ft.)

The areas surrounding McGuire AFB are flat to the south and east and in all directions under 25 miles. The Allegheny Mountains, lying 75 miles to the west and the Atlantic Ocean 30 miles to the east, have a noticeable effect on the weather at this station. From fall through spring, air masses moving across the mountains from the west to east are considerably warmed in the lower levels by down-slope motion, and weather conditions will generally remain good except for brief periods during a frontal passage. The most hazardous weather conditions, heavy snows with low ceilings and visibilities, are associated with low pressure systems moving up the east coast. Throughout the winter months freezing rain or sleet is a very real hazard. With easterly or southeasterly winds, advection-radiation fog forms at night under clear skies and results in several hours of poor visibilities near dawn. Throughout the spring season there are brief periods of shower activity with stronger surface winds, decreased visibilities, and low ceilings.

The prevailing wind is from the southwest during summer. During this season visibility may be reduced by ground fog and haze. At times the haze may extend as high as 12,000 feet.

Thunderstorms have occurred in every month of the year, but the majority of occurrences are associated with prefrontal squall lines forming east of the Allegheny Mountains and may occasionally be accompanied by gusty surface winds. The occurrence of hail is rare, but it is always a threat in any well developed squall line.

McGUIRE AFB (Cont'd.)

Average cloud cover is less during the fall than in any other season.

These low cloud amounts also permit free radiation which often brings about the formation of ground fog by sunrise.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from August 1942-March 1946 and August 1948-December 1964; with the exception of cloud cover for which data are not available prior to 1946.

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				₽	mperat	Temperature (°F)	F)						
	Jan.	Feb.	Mar.	Apr.	May		July	June July Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	40.2	42.1	49.9	4.19 61.4	71.9	81.0	84.8	81.0 84.8 82.5 75.8	75.8	66.1 54.1	54.1	41.4	62.3
Mean	32.7	32.7 34.2	41.1	41.1 51.4	61.5	70.8	75.3	73.2	4.99	61.5 70.8 75.3 73.2 66.4 56.6 45.5 33.9	45.5	33.9	53.2
Minimum	24.9	26.1	32.1	24.9 26.1 32.1 41.1 50.7 60.3 65.4 63.7 56.7 46.7 36.5 26.1	50.7	60.3	65.4	63.7	26.7	1.94	36.5	26.1	43.9
			 4	Record Temperature Extremes	Temper	ature	Extrem	ee					
Maximum	47	47	87	8	93	26	100	100 100	100	88	88	71	
Minimum	0	7	9	19 35 42 50 47 35 2 Period of Record: 1942-1946, 1948-1964	35 of Rec	42 ord:	50 1942-1	1, 946, 1	35 948-19	95 ⁴⁹	15	7	
MONTHLY MEANS				Preci	pitati	Precipitation (Inches)	ches)						
Precipitation	2.85	2.86	3.99	2.85 2.86 3.99 3.67 2.87 2.92 4.53 4.66 3.42 3.11 3.56 3.66	2.87	2.92	4.53	7.66	3.45	3.11	3.56	3.66	42.09
Snowfall* (*Hail was incli Summary prior	5.1 4.5 .uded in Snowfall to January 1956)	4.5 Snowfa rry 195	5	1 .2 T .0 T .0 .0 .1 .8 4.2 Period of Record: Precipitation 1942-1946, 1948-1964 Snowfall 1946, 1948-1964	of Rec		T Precip Snowfa	.0 itatio 11	0. n 194.	2-1946 6, 1946	.8 1948 8-1964	4.2 -1964	19.9

Surface Winds (Knots) - Record Peak Gusts

WINW 51
ESE 73
NW 42
1964 1964
SSW NW 87 56 1948-1964
WINW 43 1946
W 71 cord:
WNW Lt2 of Re
E WNW W 50 42 71 Period of Record:
SSE 54
NW 148
MS 61
Wind Direction Velocity

Maximum and/or Minimum Anemometer Height: 50 feet 06/53; 15 feet 07/61

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	31.0	33.5	£.4.3	90.5	33.3	31.6	35.8	30.6	34.7	To security of enoitourised	26.8	34.8	8.04	25.8	8.5	21.4	24.2	23.9	27.3
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	Sanke and/or Haze	15.6	16.0	25.1	25.7	19.6	18.7	16.8	16.3	19.5	Smoke and/or Haze	9.1	12.9	9.8	14.0	10.2	10.c	10.4	8.5	0.51
	30 ₃	18.9	9 8	23.0	16.3	13.6	13.5	15,2	26,1,	17.2	90,3	3.2	59	24.7	13.0	10.4	7.1	4.4	17.1	17.1
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ao	\bns M 0004* sgallien M 0. selbilidisiV	35.9	36.3	6.3	5.5	39.5	35.5	30.8	35.*	30.9	rothus 14 060s - sgaillei IM A- saillidialV	32.7	5.5	8	3	55.52	31.7	20.4	9.62	34.3
a:	\bara 14 000:- samitiah iM E> sasitilidisiV	39.1	21.5	9.75	6.49	21.7	୍.୧୪	13.e	19.7	6:3	molema eff 00000 squiller: IM &> seifillidiniv	19.1	13.2	25.8	20.1	27.0	1£.5	16.3	17.8	19.5
1	o/bas 39 conz escilion IM c\t> enitifidativ	7	4.5	-1	5.3	;- ;-	4.5	2.3	5.5	C4 e5	To/bins JY 005 - Spd1f105 48 TAI - 25(2)111d18/V	3.6	£.3	3.5	~⁺.	۳.	· ·	ıı i	1.7	1.9
	anoivernedO to madmuM	1,695	1,695	569'1	1,695	1,693	1,693	669'	1,634	13,555	anolisevendo to medmuk	C17,1	1,709	1,710	1,710	1,708	1,708	1,710	1,710	13,675
	nours	20-00	03-05	9-9	1	47	5-17	974	57-13		sunoj;	00-06	63-55	90-93	09-1: 1	15-1-31	25-23	18-81	21-23	ALI Hours 13
			0	0		7.1	-	74	rsi.	46.61		13	:3		Š.	13	74	34	23	53
	To secondaminate (mitol) notes: it constrainted	35.1	37.4	Ç.	44.2	8	2	35.1	T.	F.	in memerando (nio); metallees meditadistr	28.3	7.5	4	33.4	2.2	£.	3.5	26.1	8.5
	moltum aniwolf) foud (behavious	-:	7	"!	1,	ď	7		ė,	*!	T have satisfied for find (behindant)	1	}	}	į	;	۳:	}	1	0
	Months Showerd	5.	-1,	!	ņ	٠.;	ú	()	έď	",	ecult galestia	Ċ	*2	: ;	1	1.2	9.	6.	Ċ	<i>a</i> :
	наку доурив ниовер	19.7	γ; 	25.	28.3	23.	25.5	:3	3.67	6.38	esul T.\bine exiom♡	ा.ज	15.5	23.5	16,9	25.3	12.3	12.1	17.7	14.3
	ko#	16.9	5.	9	u:	07	-1	H	155	£;	Wog	17.5	8.3	6	17.3	7.4	23.	12	15.3	2
	unijemidiovaj Je samouanoo, imagi	5.5	2	3	S S	e)	i	: :i	Ÿ.	17.5	to secondation label and indigional	4	<u>.</u>	к.э	7. H	à	.5.3	16.1	15.4	ē.
	(19)	-	7	1	ì	}	{	i	ł	*1	TIME	i	į	i	į	:		ì	!	1
RY	parts anypus song	4	5.5	(i)	21	(i)	e) m	3.5	۵۱ ات	4.5	# 1990 to add the source	~	-1	-;	9.	S	3.1	3.6	÷	3.3
JANUARY	to their need anisocraft elanied anisocraft	-1	¥	o;	V.	¥	. :	4	113	t;	MARCH avaing battath and the function of the first guide of the first	"?	?	e4	?	}	1	e)	۲:	ci.
ŕ	Missing of Principle	13.1	3	S	3.5	9.3	9.5	ļ: -	'n.	9.3	ofazial sobas ales	33	à	12.5	12,6	27	12,5	12.9	4.3	12,2
,n-	milw w driw) wohandT .x :teriip:"exi	-	ì	į	7	ł	}	-!	;	e;	dmonthis ac drive manner (ac finite property)	1	ď	7.	٦.	r.	11	۲.	۳.	₹.
	Cloud Cover 13/10	5,0	1	8	3.5	5.5	100	7	9.24	36.2	21 <≥7 dua(γ) pho(j)	6.	3.3	36.2	4.5	<u></u>	3	35.8	£	155 135
20	them to 104 smalling im as assistinguable	4c.ĉ	çş	es F	· :	.9	i.	-3	ŝ	ij	an ban 29 model manified the equilibrials	33.1	e E	0	41.5	i.	S.	35.5	37.0	36.1
	thum 14 300% agailters	53.7	i.	8	25.	8	8	3	21.	33.3	wokhing 14 0000, sanifikat "woo sanifilialisi	16.3	4.38	27.1	22.7	83	0.0	17.7	0.71	8
40	Visitings - 200 Ft and A		ey.	90	4	ä	-1	À	-f	9	To\bun_3% ucc.s manifieD iM c\ls metalilidialV	1.5	iņ.	3.3	2.1	a) .:	C)	1.5	es C	ei ei
	menganasang nagarawang	1,560	3	3,86	39.7	1,33	18	9 1	1,250	K.	gunt poetanes ; 30 design)	1,859	36.7	1,96	1,96	1,966	138	1,856	1,553	1,33
	салод .	3	17	8	11	14	Ŋ,		07A0	1	sanoli	25-00	50-60	85-95	1	1	54	28-20	1-83	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	J												.,	O	. ,		**	• •	.4	n, m

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

Total Occurrences of Modelructions to Vision	9°04	6.95	52.5	32.5	23.9	9.13	24.9	31.7	35.6	To securrence LetoT Obstructions to Vision	53.3	64.9	67.8	43.5	8.5	63.0	35.5	41.5	4.5.6
Dust (Blowing and/or Suspended)		į	1	7	٦.	ç		;	۳.	Suspended)		:	1	}	Τ,			1	9
wond Eniwolf	1	1	;	;	1	;		į	:	наиз Эштногд		į	;	:	į	1	1	1	1
essH To\bas amone	18.1	24.1	0.9K	6.59	39.7	17.7	16.2	18.4	21.6	sash rolbine saome	9.42	39.3	3.04	36.3	26.1	0.45	3.93	FC. 3	30.1
30%	25.0	39.3	27.7	7.8	4.3	7	6.2	15.0	16.5	30 _{-d}	7:26	8,44	39.8	5.6	4.4	4.3	2.6	15.9	19.5
to sennerment Defort restigities.	0,0	4.3	9.5	çu t-	e ;	7.7	a.	6.1	7.7	% esourrences of fine firefigious and firefigious fire	6.0	4 0.0	6.5	R.O.	2.5	2.5	-+ -5	6.2	7.7
£1,mB		1	;	1	1	ļ	1	į	ł	₹ 19 H			:	:	;	1	1	1	
lests to/box Wool	1	1	1	1	1	;				JeelS wo/pure wons			;		:			,	;
no/bne nis8 poissers N sizzing gaizeers			1	1	1	}	1		!	O no base aise gaiseers e eiszirű gaiseers e	;	;	;					}	
#####################################	9.0	7.3	6,2	7.2	8.8	7.7	9.0	P.1	7.7	Alabita accents alse	. 67	9.0	6.2	6.0	7.2	0.5	, ,	6.2	7.4
Thundak on Maid Website (Windam)	77	٠.	ņ	ći.	ó:	6*3	5.7	1:8	1.3	Jundalé ya ncié; mabhund (mulistigiost)	5.1	œ.	۵.	9.	1.1	2.5	1.3	1.3	1.2
Clead Cover 13,70	37.6	9	33.2	୍ୟ	9.61	0.3	36.0	18.7	35.1	Sing Gover 13:30	6.34	41.6	33.1	35.6	51.6	56.3	39.1	8.5	36.8
Tolisher + 2000) Ft and/or IM 3 - 25 HitlidialV	36.7	58.5	53.1	35.5		37.43	25.3	32.0 4	36.4	re the of Code agailted IN do seletificialV	4C.9 A	63.1 4	66.9	59.1	2 2.54	32.5	2.1	37.7	16.1 3t
twips of 2000 symmics of the section	20.3	5.2	; C.C	17.2	11.3	8,8	10.4	14,6	18.1 3	to base of occio agailted. (M.g. selectionaly)	4 9.52	33.9 6	39.8	22.3 5	13.0 %	9.5	10.3 ×	13.5 3	9.0
nolbine 37 925 sandile0 Wellilitises <1/2	£.3	7.4	3.5	ņ	-	!	₹.	1.9	2.2	rolans 37 00% saniile0 M Clib ceitlidisiV	3 1.4	7.3	L.3	.1	.1	1	.3 E.	1.1	er er
Enoliseviesd()o vedenk	1,709	1,709	1,708	1,710	1,709	.,710	1,710	1,709	13,674	Sindistryaged to madmid	1,922	1,922	1,323	1,923	1,323	1,922	616,1	1,920	15,374
gamag	00-05	03-05 1	95	09-11 1	12-14 .	15-17	18-20 1	1-23	All Hours 13	sanoH	00-06 1,	03-05 1,			1, 41-51	15-17 1,	18-20 1,		All Bourn 15,
	8	63	96	8	=	Ť	82	22	¥ 8	×4108	6	03	30-05	69-17	Š	15	6	21-23	. B
To seconstructed Latel noisiv of smolfourdade	31.0	44.1	64.6	39.5	60.05	16.5	18.9	23.3	28.5	% senneranged fator noisiv of anoldourded	1.74	61.2	80.5	39.3	25.0	55.0	25.9	34.4	39.4
Tokking galacity and tokking galacity (paragraph paragraph paragraph paragraph and salacity of smottaurado		141.1	.1 44.8		.1 20.0	.2 16.5	18.9	23.3		Total (Blowing and or Suspended) Total Occurrences of Total Occ	47.1	61.2	.1 60.5	39.3	.1 25.0	0.52	25.9	34.4	11.6E 0.
Total Occurrences of	표	141.1	.1 44.8	ર્જ			6'41	23.3	8	Suspended)		2.19 61.2		39.3		85.0	25.9	34.4	
To became and the form of the	31.	14.4 44.1	21.41 44.8	ર્જ			9.7 10.9	9.5 23.3	8	To be and or some successions of the perfect of the	i	29.2 61.2		33.8 39.3		19.3 22.0	m.5 25.9	23.0 34.4	Q.
vone gaivoid roling gaivoid roling gaivoid (betnequid (betnequid	31.	-	4.	.1 29.		2		5	.1 28.	Plowing Secv Suspended) Suspended)		.2 61	2 5	8 39	9 6	52	25.	-	0'
ered Tolone exomed vone barboid to the allocation and barboid tend to the allocations of the total to enchange the tend to enchange the tend to enchange the tend to enchange the tend to enchange the tend to enchange the tend to enchange the tend to the tend	9.7 31.	14,4	21.4 ,1	18.3 ,1 29.	13.0	10.7	7.6	9.5	.g 13.31 28.	packe and/to-first accepted the special series of the control of t	25.4	29.2 61	38.21	33.8 39	22.9	19.3 22	30.5 25.	83.0	96.5 ,0
jo septelamaj (persedams (persedams 10,700 Sinents) ismo entro includada entro includada Sou universidio esta	23.2 9.7 31.	34.3 Mail	2 28.3 21.41	18.3 ,1 29.	7.3 13.01	4 5.9 10.72	9.3 9.7	14.7 9.5	16.8 13.31 28.	peoperation (Text) 10. pure (spokers) 10. pure (spokers) 10. pure (spokers) 10. pure (spokers) 10. pure (spokers) 10. pure (spokers) 10. pure (spokers) 10. pure (spokers)	25.7 25.4	ho.7 29.2 61	2 31.9 38.21	7.6 33.8 39	2.8 22.91	3.2 19.3 22	6.7 30.5 25.	13.5 23.0	16.5 26.5 ,0
or sectalization field from the field field field from the field field from the f	11.5 23.2 9.7 31.	34.3 Mail	2 28.3 21.41	18.3 ,1 29.	7.3 13.01	4 5.9 10.72	9.3 9.7	14.7 9.5	16.8 13.31 28.	To securation (fact of the cour	25.7 25.4	ho.7 29.2 61	2 31.9 38.21	7.6 33.8 39	2.8 22.91	3.2 19.3 22	6.7 30.5 25.	13.5 23.0	16.5 26.5 ,0
tref to separation of their solutions and their separations are separations and their separations are separations are separations and their separations are separations are separations are separations are separations are separations.	11.5 23.2 9.7 31.	34.3 Mail	2 28.3 21.41	18.3 ,1 29.	7.3 13.01	4 5.9 10.72	9.3 9.7	14.7 9.5	16.8 13.31 28.	Their accountance fact to be seen the second to second t	25.7 25.4	ho.7 29.2 61	2 31.9 38.21	7.6 33.8 39	2.8 22.91	3.2 19.3 22	6.7 30.5 25.	13.5 23.0	16.5 26.5 ,0
AAA TO STANDER STANDER T	11.5 23.2 9.7 31.	34.3 Mail	2 28.3 21.41	18.3 ,1 29.	7.3 13.01	4 5.9 10.72	9.3 9.7	14.7 9.5	16.8 13.31 28.	To present the contract of the	25.7 25.4	ho.7 29.2 61	2 31.9 38.21	7.6 33.8 39	2.8 22.91	3.2 19.3 22	6.7 30.5 25.	13.5 23.0	16.5 26.5 ,0
Toward and parties of the control and and to have any and to have any and to have any and to have any and to have any and to have any and to have any and to have any and to have any and to have any and to have any and to have any and have any and have any and have any and have any and have any and have any and have any and have any and have any and have any any and have any any and have any and have any any and have any and have any any and have any and have any any and have any any and have any any any any and have any any any any and have any any and have any an	.5 31.5 83.2 9.7 31.5	.6 11.6 34.3 14.4	2 11.2 28.3 21.41	5 11.6 18.3 1, 29.	9.0 7.3 13.01	9.4 5.9 10.72	5 5 9.3 9.7 5	7 10.7 14.7 9.5 7	15,5 16,9 13,31 28,	Depusées of the continued facility of the co	7.5 7.5 25.7 25.4 7.5	7.0 ho.7 29.2 61	6.2 6.2 31.9 38.21	6,3 7,6 33.8 39	6.7 2.8 22.91	6.0 3.2 19.3 22	7.9 6.7 m.5 25.	6.3 13.5 23.0	7.0 16.5 26.50
MAX (leatandumon) (11.5 11.5 23.2 9.7 31.	11.6 11.6 34.3 14.3	11,2 11,2 28,3 21,41	10.5 10.5 11.6 18.31 29.	9.0 9.0 7.3 13.01	9.4 10.1 5.9 10.7 4.9	10.5 10.5 9.3 9.7	10.7 10.7 14.7 9.5	10.5 10.5 16.8 13.31 28.	Consideration of fact to be and to the fact to bare and to the fact to be and to the fact	7.5 7.5 25.7 25.4 7.5	7.0 7.0 ho.7 29.2 61	6.2 6.2 31.9 38.21	6,3 5,3 7,6 33.8 39	6.7 6.7 2.8 22.91	8.0 8.0 3.2 19.3 22	3.2 7.9 7.9 6.7 30.5 25.	6.3 6.3 13.5 23.0	7.0 7.0 16.5 36.50
MAAY Townselven or the control of t	1.0 11.5 11.5 23.2 9.7 31.	.5 11.6 11.6 34.3 14.4	.3 11,2 11,2 28.3 21,41	,2 10.5 ,1 29.	.3 9.0 9.0 7.3 13.0 11	1.2 9.4 9.4 5.9 10.72	1.5 10.5 10.5 9.3 9.7	1.6 10.7 10.7 14.7 9.5	. 10.5 13.3 16.8 13.31 28,	Trought to using the presidence of the control of t	.9 7.5 25.7 25.4	.3 7.0 7.0 ho.7 29.2 61	.h 6.2 6.2 31.9 38.21	,6 6,3 6,3 7,6 33.8 39	1.7 6.7 6.7 2.8 22.91	3.2 8.0 6.0 3.2 19.3 22	3.2 7.9 7.9 6.7 30.5 25.	2.0 6.3 6.3 13.5 23.0	1.5 7.0 7.0 16.5 26.50
MAY Support of the state of th	6 43.8 1.0 11.5 11.5 83.2 9.7 31.	46.3 37.1 .5 12.6 11.5 34.3 14.4	31.0 .3 11.2 11.2 28.3 21.41	37.0 26.6 ,2 10.5 12.5 11.6 18.3 ,1 29.	23.7 .3 9.0 1.0 9.0 7.3 13.0 1.	25.3 1.2 9.4 9.4 5.9 10.72	29.6 1.5 10.5 10.5 9.3 9.7	8 41.6 1.6 10.7 10.7 14.7 9.5	.5 38.4 .P 10.5 17.5 16.8 13.31 28.	Certings - Continues - C. Con	47.7 .9 7.5 47.7 25.7 29.4	36.8 .3 7.0 51.0 7.0 hn.7 29.2 61.	34.6 .h 6.2 6.2 31.9 38.21	27.9 .6 6.3 6.3 7.6 33.8 39	17.6 1.7 6.7 6.7 2.8 22.9 1	20.7 3.2 8.0 8.0 3.2 19.3 22	31.5 3.2 7.9 7.9 6.7 30.5 25.	46.8 2.0 6.3 6.3 13.5 23.0	9 38.6 1.5 7.0 7.0 16.5 36.50
MAX Suppose 4400 Feathors Clud Cover (Mith or Mithous Preside Add or Mithous Preside Add or Mithous Preside Add or Mithous Preside Add or Mithous Fre	31. 34.6 43.8 1.0 11.5 31.	46.3 37.1 .5 12.6 11.5 34.3 14.4	47.1 31.0 .3 11,2 11.2 28.3 21,41	37.0 26.6 ,2 10.5 12.5 11.6 18.3 ,1 29.	34.1 23.7 .3 9.0 9.0 7.3 13.0 1	26.4 25.3 1.2 9.4 9.4 5.9 10.72	25.7 29.8 1.5 10.5 10.5 9.3 9.7	28.8 41.6 1.6 10.7 10.7 14.7 9.5	h yk.5 ya.4 .P 10.5 17.5 16.9 13.31 28.	Contract of the property of the contract of th	5 43.8 47.7 .9 7.5 7.5 25.7 25.4	6 60.0 36.8 .3 7.0 7.0 hn.7 29.2 61	59.5 31.6 .h 6.2 6.2 31.9 38.21	1 143.1 27.9 .6 6.3 6.3 7.6 33.8 39	34.9 17.6 1.7 6.7 6.7 2.8 22.9 1	27.7 20.7 3.2 8.0 8.0 3.2 19.3 22	26.1 31.5 3.2 7.9 7.9 6.7 20.5 25.	2 31.9 46.8 2.0 6.3 6.3 13.5 23.0	0, 38.6 1.5 7.0 7.0 16.5 26.5 0
CHAPT COURT PARTY OF THE COURT	21.2 34.6 43.8 1.0 11.5 11.5 83.2 9.7 31.	29.3 16.3 37.1 .5 11.6 11.5 31.3 14.4	26.6 47.1 31.0 .3 11.2 11.2 28.3 21.41	20.4 37.0 26.6 ,2 10.5 17.5 11.6 18.31 29.	14,2 31,1 23,7 .3 9.0 9.0 7.3 13.01	10.9 26.4 25.3 1.2 9.4 9.4 5.9 10.72	13.0 25.7 29.8 1.5 10.5 10.5 9.3 9.7	17.7 28.8 41.6 1.6 10.7 10.7 14.7 9.5	kaf 2.8 19,4 34.5 32.4 ,/ 10.5 1.28,	Constituent of the contraction o	21.5 43.8 47.7 .9 7.5 7.5 25.7 25.4	32.6 60.0 36.8 .3 7.0 7.0 ho.7 29.2 61	33.0 59.5 31.6 .h 6.2 6.2 31.9 38.21	19.4 43.1 27.9 ,6 6.3 5,3 7.6 33.8 39	10.7 34.9 17.6 1.7 6.7 6.7 2.8 22.9 1	9.0 27.7 20.7 3.2 8.0 8.0 3.2 19.3 22	In.6 36.1 31.5 3.2 7.9 7.9 6.7 30.5 25.	13,2 31.9 46,8 2,0 6,3 6,3 13,5 23,0	1.9 18.7 40.9 32.6 1.5 7.0 7.0 16.5 26.5 ,0
Cellings - 200 Pt and/or Vasibilities - 1/8 Mi University But and/or Vasibilities - 2 Mi Should Cower (2000 Pt and/or President Collings - 4000 Pt and/or President - 4000 Pt and/or President -	5.9 21.2 34.6 43.8 1.0 11.5 11.5 23.2 9.7 31.	7.5 29.3 16.3 37.1 .5 11.6 11.5 34.3 14.4	4.8 28.6 47.1 31.0 .3 11.2 11.2 28.3 21.41	.2 20.4 37.0 26.6 ,2 10.5 12.5 11.6 18.3 ,1 29.	.1 14,2 31,1 23,7 ,3 9.0 9.0 7,3 13,0 ,1	.3 10.9 26.4 25.3 1.2 9.4 9.4 5.9 10.7 2	L.0 13.0 25.7 29.8 1.5 10.5 10.5 9.3 9.7	2.3 17.7 28.8 41.6 1.6 10.7 10.7 14.7 9.5	.1 28, 13, 13, 16, 16, 16, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	Continues of the contin	3.4 21.5 43.8 47.7 .9 7.5 7.5 25.7 25.4	6,1 32,6 60,0 36,8 .3 7,0 11. 7,0 h0,7 29,2 61	3.9 33.0 59.5 31.6 .h 6.2 6.2 31.9 38.21	.1 19.4 43.1 27.9 .6 6.3 39	10.7 34.9 17.6 1.7 6.7 6.7 5.8 22.9 1	.2 9.0 27.7 20.7 3.2 8.0 8.0 3.2 19.3 22	A 40.6 26.1 31.5 3.2 7.9 7.9 6.7 20.5 25.	1.2 13.2 31.9 46.8 2.0 6.3 6.3 13.5 23.0	18.7 to 9 32.6 1.5 7.0 7.0 16.5 26.5 ,0

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

,	Total Occurrences of Obstructions to Vision	39.3	0.74	0.0	39.1	23.1	22.7	58.6	¥.4	36.4	,	Total Occurrences of Obstructions to Vision	35.1	38.3	48.1	47.2	37.7	36.2	34.7	33.3	36.8
	To\bns Aniwolf) faud (babnaqau2	1	:	1	ŗ.	۲:	cv.	į	۲:	₹:		Dust (Hlowing and/or		i	1	÷	-7.	۲,	1	1	i.
	Wond Smiwold		1	-	į	i	į	i	۲.	0.		Blowing Snow	ui	ú	ď	٦.	ņ	÷	4.	ĸ.	οi
	Smoke and/or Haze	18.6	80.0	35.2	27.3	16.3	15.2	18.9	18.0	89.E		Smoke and/or Haze	16.1	8.3	53.5	35.4	24.2	23.0	20.7	18.1	23.2
	803	24.45	33.8	41.2	15.1	7.3	9.7	10.9	15.3	19.4		30.1	19.6	21.12	24.9	16.91	13.7	0.4	15.0	16.4	17.7
	Total Occurrences of Precipitation	9.1	-	9.6	6	9.0	9.6	9.0	9	2		To seconstructor latel noitaliqicent	14.0	22.9	15.1	13.5	13.7	13.9	15.1	25.2	13.8
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anc	Thunder (With or Withouthree)		•!	ű	7	- ₹.	eş.	ŗ.	œ	ú	şnı	onsiw so dilW) sebmudT (nolimatqioes9		i	i	1	٦.	1	į	4	٥.
	Cloud Cover 23/10	54.4	53.5	6.04	39.9	37.4	38.7	6.64	53.4	3		Of/f? Jevol buof)	45.5	9.44	35.5	31.5	2:1	32.8	9.5	1.51	36.9
40/	Cellings (4000 Ft and M do selfitidisty	1.3.6	8.5	9.19	4.5.4	35.8	36.3	30.2	34.3	ş.	30,	Ceilings choud Pt and/ IM do seitilidisiV	0.14	41.9	51.6	6.9	42.6	٦.	37.5	38.1	0)
20.7	Cellings <7000 Ft and Wisbilities <3 Mi	19.6	37.6	37.7	55.4	13.6	6.11	15.7	34.6	19.7	an,	Abne 19 0000: agnille) IM E: selfilldielV	19.8	21.0	6.75	25.8	a. 8	9,5	19.6	19.5	8. 8.
10	\\bar 17 305> manified M \\(\(\)\(\) asitifidialV	5.4	9.0	6.3	a.	}	cų.	÷	2,2	5.5	ac.	Ceilings <2500 Ft and/d Visibilities <1/2 Mt	3.7	4.5	3.4	3.6	5.3	3.1	3.1	3.0	3.5
s	Number of Observations	1,953	1,353	1,353	1,353	1,953	1,953	1,953	1,953	15,624	8	Rumber of Shaerwarions	1,952	1,952	1,953	1,951	1,952	1,952	1,953	1,953	15,618
	ном	00-05	69-69	90-90	11-65	15-14	77.7	19-00	52-53	All: Hours 13		enoit	20-00	3-62	90-90	09-13	57.57	15-17	18-20	87-13	All Hours 15
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u	To ammeritable faioT misly of emolibraried	17.3	53.5	60.1	37.0	25.4	21.7	9.12	33.9	37.5	c	To assemment to the Total Occurrences of Salarion	32.1	37.2	8	39.8	36.6	8.	56.9	26.0	33.8
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	Cloud Cover 53/10	51.0	9"3"	38.9	35.5	53.5	34.1	2.4	43	4		01/87 Jakes pho()	7.7.	9.74	31.7	35.1	7.55.	32.7	13.5	6.54	39.8
10/	Ceilings <40000 Ft and: Wielbilities A	4.5.4	¥.4	62.3	0	38.2	9.6	4.00	34.6	ુ•€ †	10,	Centings - 4000 Ft and Weibilitings of Mi	% %	41.9	54.5	4.54	37.2	36.0	34.5	34.0	D.04
ao/	Cellings <2000 Ft and Visibilities <3 Mi	ત્ર.વ	æ.3	38.4	23.0	14.6	12.3	13.0	15.0	6.5	30,	Ceilings <2000 Pt and/ Viwililitites <3 Mi	18.6	21.2	27.3	21.8	16.5	16.4	16.5	17.5	19.5
10	Ceilings <200 Ft and/ Wisibilities <1/2 Mi	0.4	6.2	5.3	÷.	r.	ď	·:	9	9.	10	Ceilings <200 Ft and/o	٠ 9	5.0	4.9	1.1	9.	ď.	۲.	5. E	2.4
si si	Number of Observation	1,869	1,990	1,989	1,890	1,890	1,889	1,890	1,890	711,21	4	випрет от Орветуватора	1,890	1,890	1,890	1,890	1,990	1,889	1,890	1,389	15,118
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McGUIRE AFB, WRIGHTSTOWN, NEW JERSEY

WIND ROSES

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McGUIRE AFB, WRIGHTSTOWN, NEW JERSEY WIND ROSES

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WIND ROSES

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SEPTEMBER	Speed in Knots	28-33 34-40 61-67 48-55	• • • • • • • • • • • • • • • • • • •		TOTAL HENDS OF DESENVATIONS NOVEMBER	Epeed in Knots	28-33 34-40 41-47 48-51	ę. ę.	.1 .0 .0 .0 .0 TOTAL NUMBER OF OBSERVATIONS
SEPTEMBER	Speed in Knots	22-27 28-33 34-40 61-67 48-55	999 999 99 19	0.	•	Epend in Knots	27-27 28-33 34-40 41-47 48-55	e ee ee ee ee ee ee ee ee ee	.7 .1 .0 .0 .0 .0 TOTAL NUMBER OF OBSERVATIONS
SEPTEMBER	Speed in Macta	17-21 22-27 28-33 34-ho h1-h7 48-55	999 999 99 19	1.1 .3 .0	•	Speed in Knots	17-21 27-27 28-33 34-40 41-47 48-55	4004444040040444 401444444444 60 466 44 64446 64 66 66 6	3.0 .7 .1 .0 .0 .0 .0 TOTAL NUMBER OF OBSERVATIONS
SEPTEMBER	Speed in Mocks	11-16 17-21 22-27 28-33 34-40 61-67 48-55	999119 001999149 999119 001999141	6 7.9 1.1 .3 .0	•	Speed in Knots	11-16 17-21 27-27 28-33 34-40 43-47 48-55	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.8 3.0 .7 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
SEPTEMBER	Speed in Knots	7-10 11-16 17-21 22-27 28-33 34-40 51-57 48-55	######################################	32.6 7.9 1.1 .3 .0	•	Epead in Knots	7-10 11-16 17-21 27-27 28-33 34-40 51-47 58-57	4.0 % 6.0 %	31.8 15.8 3.0 .7 .1 .0 .0 .0 .0 .0 .0 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

	S	Speed	6.9	7.5	4.6	9.6	4.6	7.5	7.0	5.6	7.3	2.6	4.5	7.1	8,8	5.6	0.6	8.1			6.9	•
		Total	5.4	3.7	3.7	3.6	3.7	5.6	5.6	3.5	6.2	6.7	9.5	6.5	8.8	9.9	6.8	5.0		13.5	100.0	175766
		35.																				TIONS
		48-55						0.													o,	OBSERVA
		4,3~4,7						o.													o,	TOTAL NUMBER OF ORSERVATIONS
		34-40				ò	o.	o,		c,	ó			o,		ó	o.	0			0.	TOTAL IN
AL.	go.	28-33	0.	o.	6.	o.	9.	0.	o.	o.	o.	Ö		e,	0.	0	0.	o,			7	
ANNUAL	Speed in Knots	12-22	o.	o.	o,	c.	0.	o.	0.	0.	o,	0.	ç	o.	7	7	7	o.			۲.	
•		17-81	٦.	7	-7	ď	7	7	7	7	٦.	ď	ج.	7	s.	ģ	4	ĕ			3.0	
		11-16	ż	-4.	ø.	٠.	٠.	۳.	ņ	4.	œ.	1.0	1.0	1.1	1.9	ę. 3	1,6	1:1			9,41	
		7-10	2.1	4.4	1.3	1.3	4.1	1.0	6	1.1	8.5	è,	3,3	2.5	3.1	3.5	5.5	2.5			35.1	
		9-4	P. B	1.8	7:1	¢.	7	40.	æ	0.1	0.0	o Ni	5,6	5,0	2.5	6:1	1.6	1.1			25.0	
		9-3	6.	9	÷		ن	4	s.	٠.		1.0	1.0	æ	ō,		9.			13.5	4	
		Dir.	25	XXX	NS	EME	w	355	28	388	ss	SSW	38	ASA	;m	MAN	MA	MAN	VARBL	SALM.	TOT	

SHAW AFB SUMTER, SOUTH CAROLINA (Lat. 33°58'N, Long. 80°29'W, Elev. 242 ft.)

Shaw AFB is located in the upper central plain, six miles westnorthwest of Sumter and 30 miles east of Columbia. The Watertee River
is nine miles west and Lake Marion 18 miles southwest. The fall line or
division between the hilly Piedmont and the generally level Coastal Plain
is near Columbia. Toward the southeast the elevation decreases rapidly
from 300 feet to 100 feet and then decreases slowly toward the Atlantic
Ocean about 80 miles from the airfield. The area surrounding the airfield is mostly wooded with some marshes interspersed.

Weather conditions in this area are influenced by the nearness of the Atlantic Ocean and the position of the Bermuda High. Southeast to easterly circulation brings moisture upslope to the upper coastal plain. This circulation frequently results in night and early morning stratus or fog, with the maximum occurrence in December and January. From December through March occasional snow and freezing rain can be expected and accounts for some of the most adverse flying conditions. The best flying conditions exist from late September to early November.

From fall through spring the thunderstorms that occur will be associated with fronts or squall lines. Most of the summer thunderstorms, from May through September, are of the air mass type with the maximum occurrence in July. During this period when radiational heating and cooling are the dominant weather controls, sky cover varies directly with the development and dissipation of the cumuliform clouds.

SHAW AFB (Cont'd.)

Tropical storms affect this area from June through December with the maximum occurrence in September.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from January 1946-December 1966; with the exception of cloud cover for which data are not available prior to 1946.

SHAW AFB SUMTER, SOUTH CAROLINA

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Те	Temperature (OF)	ure (°	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	June July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	56.8		65.3	59.7 65.3 75.1	83.3		88.8 89.8	89.2	83.8	75.3	62.9	₹ 9	74.2
Mean	47.5	49.8	55.3	64.5	55.3 64.5 73.0 79.2	79.2	80.8	80.1	74.8	65.3	55.7	47.1	64.5
Minimum	37.8	39.7		53.6	45.1 53.6 62.4 69.4 71.7 70.8	4.69	71.7	70.8	65.7	55.0	45.2	37.6	54.5
			Æ	ecord	Record Temperature Extremes	ature	Extrem	ស					
Maximum	81	82	89	92	66	104	103	102	101	66	88	8	
Minimum	15	0,	22	32 eriod	32 40 51 Period of Record:		59 56 1942-1965	56 965	1	ಜ	16	ω	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	3.00	3.55	4.25	3.59	3.00 3.55 4.25 3.59 2.95 4.65 5.71 4.96 4.05 2.77	4.65	5.71	7.96	4.05	2.77	5.46	3.10	45.02
Snowfall* .2 .3 (*Hail was included in Snowfall Summary prior to January 1956)	.2 .3 .uded in Snowfall to January 1956)	.3 Snowfa ry 195	•	Teriod	2 T .0 .0 .0 .0 .0 Period of Record: Precipitation Snowfall	ord:	.0 Precipita Snowfall	.0 itatio	0. n 1921 1491	.0 1942-1965 1946-1965	EH	α.	ø.
		Su	rface	Winds	Surface Winds (Knots) - Record Peak Gusts	- Re	cord P	eak Gu	sts				

Maximum and/or Minimum Anemometer Height: 50 feet 05/55; 13 feet 04/64

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NNE ENE 55 58 1947-1965

WSW WSW WSW 50 54 68 Period of Record:

WSW 58

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Wind Direction Velocity

SHAW AFB, SUMTER, SOUTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

	To swentermood Later noisiv or anoideurstado	6.13	31.7	9.54	35.7	55.0	17.8	52.0	27.5	39.1	So esonomento isono? Intellore to visiv or	14.1	23.3	36.8	17.2	7.6	9.1	9.1	17.1	16.1
	Dust (Blowing and/or Suspended)	:	1	:	1	÷	o.	1	1	ė,	ro/bne garved) zewo (bebraquus	0	0.	0	Q.	ż	1.0	ķ	ci	ű.
	Mone Smiwold	;	i	;	į	;	:	1	٥.	o.	Mon's Baivoid	į	i	1	;	1	:	}	:	ł
	Smoke and/or Haze	14.5	16.3	¥.92	55.9	14.5	11.1	79.5	17.1	17.4	ereg in/pre emoms	6.3	9.6	18.0	6.01	5.9	4.6	5.1	6.5	4.6
	304	14.5	18.1	56.2	16.3	9.1	4.9	10.6	11.7	14.3	30g.	8.1	9.91	75. tr	6.5	 		3.5	9.4	9.5
	Total Occurrences of Precipitation	12.7	12.8	15.0	15.7	10.1	10.4	11.5	11.8	12.1	Total Occurrences of Precipitation	8.3	1.9	7.0	4.8	7,2	6.9	6.8	7.1	4.7
	11 mH	ļ	i	1	1	;	į	1	1	}	राष्ट्र	1	o.	1	1	}	o.	i	:	o.
RY	seets notbas wood	4.	9	-4.	ŵ	- †.	αį	- †.	÷	₹.	Snow and/or Sleet	;	1	-	į	į	;	į	;	;
FEBRUARY	Treezing Pain and/or Freezing Baismer?	0,	ė	ė.	'n	ci	7.	i	i	τ.	A aplane ales gaiseer? H associate gaiseer?	į	ì	;	į	i	i	į	1	-
25	efiziti mo/bos nisk	12.2	12.0	14.5	12.3	9.6	10.1	1.11	11.3	11.7	elsaist solane ale8	8.3	4.9	1.0	7.8	7.5	6.9	6.8	7.1	7.4
	ariosetk i daik) mebundī Jungek i daik) mebundī	-:	7	۳.	ł	7	αį	ij.	7.	7.	nuchtik me salik) mekandi (meliksigiosm	ė	₫.	ė	.#.	-	ø.	ŋ.'t	7 .7	ø,
	CIVER TAVAR BEOLD	49.1	9,6.0	38.0	34.5	33.0	32.1	6.04	47.5	10.1	DIVES HAVED MINES	55.7	51.6	43.6	43.5		35.4	43.8	54.2	45.5
43	tns 37 555+> 83 mis2 > 5 tns 37 555+> 83 mis2 > 5 tns 37 555+>	33.5	38.1	6.84	6.0	31.3	27.2	30.8	31.5	35.2	4. [28년 - 4.000 - 유리다. (M) 4. [28년 : 4.000 - 유리다. (M)	21.7	30.1	39.4	27.7	25.7	18.3	16.0	17.0	24.5
4:	TA Ex setatinistA pur 18 3000 x Suite TA Ex setatinistA	18.0	22.1	28.1	23.5	16.8	14.0	14.8	15.4	19.1	n bine fin south wantibed Wisebitteres x3 Mi	12.9	17.7	4.05	15.0	6.7	6.9	4.9	9.3	12.0
۵	olbine of 505. sgallide M. GAI> sellitidielV	2.4	3.7	9.4	2,1	9.	9.	6.	1.6	5.1	to bak da 2004 agailled in CAI> selitidiaiV	æ.	4.5	3.0	٠,	}	!	į	τ.	ø,
	Subject of Speedwations	2,118	2,117	2,117	2,118	2,116	2,116	2,114	2,118	16,934	chultevasi to medmuX	2,248	2,250	2,250	2,249	2,246	2,249	2,250	2,249	17,993
	номгз	70-00	03-05	90-90	69-11	12-19	15-17	υβ βυ	7	A11 Heurs	६स्राव्य	30-06	03-05	90-90	71-60	12-16	15-17	18-20	9	All Hours
	MOTELL OF SHOTE OF LIGHT	۱ 🗻	~	_			_	-	~		CONTROL OF RESIDENCE		•	-	_			-	_	_
	Operations to Miston of Costs	6.79	8.9	45.0	34.6	1.22.1	- 19.8	24.3	6.43	28.6	Toespendent Toespendent Toespendent Toespendent Toespendent	21.5	8.5	41.7	2 26.1	9 15.2	12.4	16.5	1.61 €	3 22·#
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	Suspended)	ļ	×	3 42.0	:	Ţ:	19.		0	8	Pong Entrole Tolore palvate selection of basenders Tolore contraction of the palvate of the pa		0.	7.14 41.7	e	8 15.	L:		·	o.
	Tush falowing and for Suspended)	ļ	14.4 40 38.	21.3	80.0	13.01	10.9 19.	14,30	0.	8	po enconstraint Frog. In page description of the constraint of th	cų.	т.з .0 ж.	22.4 .0	ci.	7.58 15.			y.8	ņ
	Soft mediation and a wind salvets and the salvets and (palvets) and (palvets)	16.5 12.91	SK 0,	6:	17.7 20.0	10.7 13.01	9.8 10.9 19.	0 14.3	12.3 13.70	15.7 15.10 28.	TO HOUSEARTHON PERSON FOR THE STATES AND SURVEY AND SU		0.	0. 4	6 8	8 15.	L: 0	4 4	9.4 9.8 3	12.4 11.3 .0 .3
	South and Annual Sand	5 12.9 1	O 14.4 0 32.	.7 21.3	80.0	13.01	8 10.9 19.	14,30	3 13.70	7 15.10 28.	po enconstraint Frog. In page description of the constraint of th	2 6.6 0.	т.з .0 ж.	0. 4.22 5.	1 15.62	7.58 15.	5.07	4 4.8 4	y.8	4 11.3 .0 .3
	postpostance of the contraction	11.7 16.5 12.91	12.1 21.0 14.40 35.	13.1 26.7 21.3	12.0 17.7 20.0	10.5 10.7 13.01	10.6 9.8 10.9 19.	11,1 11,0 14,30	10.6 12.3 13.70	11,5 15.7 15.1 0 28.	To enconstraint From the property of the prope	12.4 12.0 9.9	12.3 17.1 11.3 .0 26.	12.2 25.2 22.4 .0	s 12.3 12.1 15.6	.25 7.6 7.58 15.	10.5 7.1 5.07	10.4 6.4 6.4 ,4	10.6 9.4 9.83	11.4 12.4 11.3 .0 .3
ARY	The secondaries of the secondaries of the secondaries and the seco	. 9 9.51 16.5 12.9 9.	.6 12.1 21.0 14.40 36.	.6 13.1 26.7 21.3	12.0 17.7 20.0 9.	.5 10.5 10.7 13.0 1	.7 10.6 9.8 10.9 7.	6 11.1 11.0 14.3 0.	.8 10.6 12.3 13.70	.7 11,5 15,7 15,1 7.	Jo e-posalmono (Find) Joynos Butange, semo Anug Putange Anug Putange Anug Putange Anug Putange Anug Putange Ingelia Anug Jo e-constantes, find Item Leang Johnstein Anug Item Leang Johnstein Anug Leang Johnst	.3 32.4 12.0 9.92	3 17.1 11.3 .0 26.	2 25.2 22.4 .0	.4 12.3 12.1 15.6 4.	.4 40.5 7.6 7.5 4.	.2 10.5 7.1 5.07	.2 10.4 6.4 8.4 4	.2 10.6 9.4 9.83	.3 11.4 12.4 11.3 .0 .3
JANUARY	po escalinace two. (papadang (papad	1 9.51 5.61 7.11 9. 4.	.3 .6 12.1 21.0 14.40 36.	.6 .6 13.1 26.7 21.3	9 12.0 17.7 20.0 6. 9.	.4 .5 10.5 10.7 13.0 1	.3 .7 10.6 9.8 10.9 7.	0 6 41 0.11 1.11 6. 4.	.1 .8 10.6 12.3 13.70	.4 .7 11.5 15.7 15.1 7 46.	MARCH MARCH	3 3 12.4 12.0 9.92	12.3 17.1 11.3 .0 26.	12.2 25.2 22.4 .0	.3 .4 12.3 12.1 15.6 4. E.	.2 .4 10.5 7.6 7.58 15.	7 5.0 7.1 5.0 7.	10.4 6.4 6.4 ,4	.1 .2 10.6 9.4 9.8 3.	.1 .3 11.4 12.4 11.3 .0 .3
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	go supparament through the property of the pro	1 9.51 5.61 7.11 9. 4.	2 .0 11.4 .3 .6 12.1 21.0 14.40 35.	.1 12.2 .6 .6 13.1 26.7 21.3	10.8 .6 .9 12.0 17.7 20.0	1 9.7 10.7 10.5 10.7 13.0 1.	.3 .7 10.6 9.8 10.9 7.	0 6.41 0.11 11.11 6. 4. 4.3 0.	.0 9.7 .1 .8 10.6 12.3 13.70	.1 10.6 .4 .7 11.5 15.7 15.7 0 28.	MARACA (With at Withour Pression and 19 Effects Pression and 'or fetests' Pression and 'or fetests' Pression and 'or fet	3 3 12.4 12.0 9.92	.3 12.3 1 12.3 17.1 11.3 .0 26.	.3 12.22 12.2 25.2 22.4 .0	2. 11.7 .3 .4 12.3 12.1 15.82	.3 9.9 .2 .4 10.5 7.6 7.58 15.	.3 10.2 .1 .2 10.5 7.1 5.07	.5 10.1 .2 .2 10.4 6.4 6.4 6.44	.3 10.2 .1 .2 10.6 9.4 9.83	.1 .3 11.4 12.4 11.3 .0 .3
27	go successioned their contract of the property	1 9.51 7.10 9. 4. 7.01	.36 0 4.41 21.0 14.14 · 6 35.	9 36.3 .1 12.2 .6 .6 13.1 26.7 21.3	4 32.6 10.8 6 .9 12.0 17.7 20.0	5 32.4 9.7 .4 .5 10.5 10.7 13.0 1	32.4 9.9 .3 .7 10.6 9.8 10.9 19.	41.0 .0 10.2 .4 .6 11.1 11.0 14.30	٠٠٠ .٠٠٠ 9.7 .١ .8 ٠٠٠٠ 10.6 12.3 13.7 ٠٠٠٠ 0	10.6 .4 .7 11.5 15.7 15.1 7. 46.	MARCHITECTON MARCH MA	12.0 .1 .3 12.4 12.0 9.92	12.3 1 12.3 17.1 11.3 .0 26.	4 37.4 ,3 12.2 ,2 12.2 25.2 25.4 ,0	2 12.3 12.1 15.6 4 2.	.2. 9.9 .24 10.5 7.6 7.5 4. 2. 9.9	6 31.4 .3 10.2 .1 .2 10.5 7.1 5.07	4, 39.9 .5 10.1 .2 .2 10.4 6.4 6.4 6.4 4	4 49.1 .3 10.2 .1 .2 10.6 9.4 y.83	40.1 .3 11.1 .1 .3 11.4 12.4 11.3 .0 .3
ar ac	TO SHORMWOOD CANDO THE STATEMENT OF THE	1 6.51 7.11 6. 4. 10.1 2. 9.45. 12.9 1.	אל סי ליולן סיום וופו י 9. לי ליודן סי פיוליו פיסל זיי.	48.9 36.3 .1 12.2 .6 .6 13.1 26.7 21.3	41.4 32.6 10.8 .6 .9 12.0 17.7 20.0	31.5 32.4 9.7 .4 .5 10.5 10.7 13.0 1	27.0 32.4 9.9 9.9 .3 .7 10.6 9.8 10.9 4.3g	0 11.1 11.0 11.1 14.3 0	8 31.1 47.5 .0 9.7 .1 .8 10.6 12.3 13.70	39.0 .1 10.6 .4 .7 11.5 15.7 15.10 28.	MARK Supported to the confinement of the confineme	8 29.8 48.3 .6 12.0 .1 .3 12.4 12.0 9.92	34.6 47.1 .3 12.31 12.3 17.1 11.3 .0 26.	45.4 37.4 ,3 12.2 ,2 12.2 25.2 22.4 ,0	34.6 34.7 .2 11.7 .3 .4 4.8.3 12.3 15.82	28.8 32.2 .3 9.9 .2 .4 10.5 7.6 7.58 15.	23.6 31.4 .3 10.2 .1 .2 10.5 7.1 5.07	23.4 39.9 .5 10.1 .2 .2 10.4 6.4 6.4 6.44	9 24.4 49.1 .3 10.2 .1 .2 10.6 9.4 9.83	6 30.6 40.1 .3 11.1 .1 .3 11.4 12.4 11.3 .0 .3
gr ac	The separation of the control of the	1 6.51 6.51 7.11 6. 4, 7.01 9. 6.54 0.55 7.61 0.	.25 14.4. 0.12 1.51 6 14.4 14.4 1.55.	29.5 48.9 36.3 .1 12.2 .6 .6 13.1 26.7 21.3	25.4 41.4 32.6 10.8 .6 .9 12.0 17.7 20.0	19.1 31.5 32.4 9.7 .4 .5 10.5 10.7 13.01	16.7 27.0 32.4 .0 9.9 .3 .7 10.6 9.8 10.9 19.	0 11.1 11.0 11.0 10.2 4. 6 11.1 11.0 14.3 0	16.8 31.1 47.5 .0 9.7 .1 .8 10.6 12.3 13.70	5 80.8 15.6 19.0 1. 10.6 14 7. 11. 11.5 15.7 15.1 10 28.	MARY STATE SHAREST AND STATE SHAREST S	16.8 29.8 48.3 .6 12.0 .1 .3 12.4 12.0 9.92	19.7 34.6 47.1 .3 12.3 1 12.3 17.1 11.3 .0 26.	25.1 45.4 37.4 .3 12.22 12.2 25.2 22.4 .0	19.2 34.6 34.7 .2 11.7 .3 .4 12.3 12.1 15.82	14.1 28.8 32.2 .3 9.9 .2 .4 10.5 7.6 7.58 15.	12.5 23.6 31.4 .3 10.2 .1 .2 10.5 7.1 5.07	4, 39.9 .5 10.1 .2 .2 10.4 6.4 6.4 6.4 4	12,9 24.4 49.1 .3 10.2 .1 .2 10.6 9.4 9.83	16.6 30.6 40.1 .3 11.1 .1 .3 11.4 12.4 11.3 .0 .3
gr ac	To exceeding the following of the follow	4.0 19.5 35.0 45.6 .2 10.7 .4 . 9 11.7 16.5 12.9 1	4.1 23.4 to.2 th.2 0 11.4 .3 .6 12.1 21.0 14.40 56.	5.5 29.5 48.9 36.3 .1 12.2 .6 .6 13.1 26.7 21.3	1.9 25,4 41.4 32,6 10.8 .6 .9 12.0 17.7 20.0	.5 19.1 31.5 32.4 9.7 .4 .5 10.5 10.7 13.01	.6 16.7 27.0 32.4 0. 9.9 .3 .7 10.6 9.8 10.9 19.	1,0 15.4 29.9 41.0 .0 10.2 .4 .6 11.1 11.0 14.3 0	2,3 16.8 31.1 47.5 .0 9.7 .1 .8 10.6 12.3 13.70	2,5 20,8 35,6 39,0 .1 10,6 .4 .7 11,5 15,7 15,10 28.	MARS 4000 F and/or Estitude 500 F and/or Statitude 500	1.8 16.8 29.8 48.3 .6 12.0 .1 .3 12.4 12.0 9.92	3,5 19,7 34.6 47.1 .3 12,3 1 12,3 17,1 11,3 .0 26.	3.5 25.1 45.4 37.4 .3 12.22 12.2 25.2 22.4 .0	.6 19.2 34.6 34.7 .2 11.7 .3 .4 12.3 12.1 15.82	.4 14.1 28.6 32.2 .3 9.9 .2 .4 10.5 7.6 7.58 15.	.3 12:5 23.6 31.4 .3 10.2 .1 .2 10.5 7.1 5.07	4, 4.8 4.9 4.9 4.01 2, 5, 1.01 7, 9.99 4.5 8.21 8.	1.7 12.9 24.4 49.1 .3 10.2 .1 .2 10.6 9.4 9.83	1.7 16.6 30.6 40.1 .3 11.1 .1 .3 11.4 12.4 11.3 .0 .3
gr ac	The separation of the control of the	1 6.51 6.51 7.11 6. 4, 7.01 9. 6.54 0.55 7.61 0.	.25 14.4. 0.12 1.51 6 14.4 14.4 1.55.	29.5 48.9 36.3 .1 12.2 .6 .6 13.1 26.7 21.3	25.4 41.4 32.6 10.8 .6 .9 12.0 17.7 20.0	19.1 31.5 32.4 9.7 .4 .5 10.5 10.7 13.01	16.7 27.0 32.4 .0 9.9 .3 .7 10.6 9.8 10.9 19.	0 11.1 11.0 11.0 10.2 4. 6 11.1 11.0 14.3 0	16.8 31.1 47.5 .0 9.7 .1 .8 10.6 12.3 13.70	5 80.8 15.6 19.0 1. 10.6 14 7. 11. 11.5 15.7 15.1 10 28.	MARY STATE SHAREST AND STATE SHAREST S	16.8 29.8 48.3 .6 12.0 .1 .3 12.4 12.0 9.92	19.7 34.6 47.1 .3 12.3 1 12.3 17.1 11.3 .0 26.	25.1 45.4 37.4 .3 12.22 12.2 25.2 22.4 .0	19.2 34.6 34.7 .2 11.7 .3 .4 12.3 12.1 15.82	14.1 28.8 32.2 .3 9.9 .2 .4 10.5 7.6 7.58 15.	12.5 23.6 31.4 .3 10.2 .1 .2 10.5 7.1 5.07	12.8 23.4 39.9 .5 10.1 .2 .2 10.4 6.4 6.4 4	12,9 24.4 49.1 .3 10.2 .1 .2 10.6 9.4 9.83	16.6 30.6 40.1 .3 11.1 .1 .3 11.4 12.4 11.3 .0 .3

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

SHAW AFB, SUMTER, SOUTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

Total Occurrences of Obstructions to Vision	10.8	₹. 62	₹	10.7	÷	3.3	5.1	6.1	13.2	Total Occurrences of Obstructions to Vision	14.3	35.6	₽ 9.3	14.3	8.9	6.5	3:5	4.6	17.3
Tolowing and/or Suspended)	;	i	į	٦.	o.	o.	٦.	ပ	ó	Dust (Blowing and/or Suspended)	1	;	!	ţ	1	7	ł	l	9.
Mond Sniwold	1	į	į	;	-	1	1	i	1	wond gaiwoid	-	1	ł	}	1	i	-	l	į
Smoke end/or Haze	5.2	9.3	18.1	9.1	3.9	5.9	3.9	# #	7.1	szah tolbna swom6	5.1	8.2	16.5	10.8	0.9	5.0	5.5	5.	7.9
304	6.3	85.8	21.3	5.0	4	-#.	1.1	1.8	1.0	30 _d	9.0	8.3	36.1	3.7	œ.	ę.	2.3	3.0	10.3
Total Occurrences of Precipitation	5.3	3.	3.7	7.7	5.5	4.	8.5	J.C	5.7	To neournood fatol Precipitation	5.5	3.6	3.5	5.6	4.5	7.8	8.7	6.7	5.3
11,001	1	1	;	1	1	į	1	1	!	Heall	;	1	;	1	1	ļ	•	:	1
forth mo/bus word		1	į	1	1	;	1			SeelS to/box work	:	:	i	:	1	1	i	;	į
To\bns ning suizeera S elseing suizeera		į	į	;	-	1				AUGUST	:	į	i	į	1	1	1	i	1
Alsziz: To\bne nieR ها	5.3	2.4	3.7	7.7	5.5	7.4	8.5	7.0	5.7	Alszird re/bas aisel	5.5	3.6	3.5	5.6	4.5	9.2	8.7	5.7	5.3
modith m. dith) mebundi (meidethgloeth	7.6	4.	çi.	ď	2.3	5.6	5.7	3.3	oi	Precipitation (With or Without	1.6	ij	o,	. 	2.5	6.4	4.5	3.9	2.4
GINES TOYOU MUSES	54.0	9.54	36.1	33.9	21.7	23.9	30.8	1 .94	9.		ž+.8	53.5	35.4	33.4	24.2	25.3	31.9	48.5	38.5
Toleilings 'hooo Pt and/or Visibilities 'e Mi	17.0	31.6	37.1	25.8	6.45	17.2	14.8	12.0	83.5	no/ban 34 0004, agaille? IM è moillifele!	16.5	33.5	1.8.1	8.75	89.	18.4	14.8	13.4	8.4°
no∖bna 19 000%: agmilled Visitibilitidia?	0.6	9.91	89.E	14.3	6.1	4.4	6.4	4.5	10.1	A About of Color agailted in Experitificialy	9.3	18.0	25.2	15.3	6.2	5.5	5.7	5.5	1:1
Tolhas 39 000 samiliso JM chr saitifidiaiV	ú	2.2	1.7	;	1	ci.	1	7	ė	ro\bns 34 (F.G. sgaille) iM (A)> swifilldisiV	6.	3.7	4:3	۲.	٦.	o,	۲:	1	1.2
annitarymeth lo medment	2,250	2,250	6,2,5	2,250	5,249	2,247	2,250	2,250	17,995	sunffermost, to madmin	2,323	2,325	2,323	2,324	2,325	2,324	2,323	2,325	18,592
Hours	30-00	39-60	96-96	09-11	25-25	15-17	39-50	22-23	ALL Hours 17		20-05	63-63	97-98	09-11	2-2-	175	18-20	52-53	All Hours 18
		(1	0	0	**	-1	74	74	46 32		0	()	Ö	5			_	τü	≪ #
To menderation Index noisit , smoissurfer	10.7	28.1	%	10.8	3.9	3.5	5.0	6.4	12.9	Total Occurrences of adol Obstructions to Vision	10.3	89.98	₹ *	10.2	4.8	9.9	÷.5	4.9	ं स
nothers goiver(8) faud (behrequed	٥.	٦:	i	7.	٦.	7	۲.	٦.	7.	Dest (Blowing and/or	į	:	į	:	1	o.	1	1	o.
woni: Aniwold	1	1	}	-	1	1	:	i	-	work gaiwatii	ł	ì	į	-	-	į	ì	į	-
эсия из/рим эмомя	£.3	0,0	17.2	ø.	2.5	5.5	3.7	5.6	9.	эген до/рим эхоин	Ţ.	9.9	13.5	8.1	.÷	2.1	3.5	3.0	5.6
30તું	6.8	21.7	23.3	3.1	7.7	1.2	1.5	2.5	7.7	go.g.	4.7	23.0	24.5	2.3	9.	.7	1.4	2.7	1.1
To secontrupol ladoT m (/#d)qiperi	4.	5.6	5.3	4.	6.4	5.8	6.3	6.9	5.5	So seonamusofi Ladoff nejsadigipedi	6:4	3.6	5.9	4.0	ج. 6	10.3	8.6	8.5	6.2
LieH		-	-	1	į	o,	1	:	o.	Ligh	1	1	1	-	1	1	ļ	1	i
Josef Solban Word		;	!	1	}	1	į	i		shalfs tolkius word	1	}	ł	;	1		}	į	1
Technia niad anixaeri	1	i	;	}	1	1	i	1	į	Treesing distant	1	1	;	}	1	;	1	}	į
Mazini no/ban aind	4.5	9.6	5.3	4.2	6.4	5.8	6.3	6.5	5.5		6.4	3.6	89.	0.4	5.8	30.3	8.6	8.5	6.2
Thunder (With r Withour (a.thuitine)	Æ.	'n	÷	Ņ	1:1	3.7	2.9	2. F	1.4	thoust the drive ambund?	1.2	60	9	ij	3.8	7.6	7.3	4.3	3.5
	Į									OTAE; savor buoff	6.84	m.	m	п				5	31.3
Cloud Cover 13/12	55.6	9.6	36.1	36.4	4.	27.9	36.2	51.8	10.1	****	4	45.3	8.3	27.1	16.3	19.6	23.7	39.5	***
no/bms J4 0004: amillial iM as amillialialy Uffg mayor bunff			39.8 36.1	25.0 36.4	24.3 27.4	16.2 27.9	12.3 36.2	12.5 51.8	22.4 40.1	im 3. a. i.tiiddatv	16.2 . 45	29.6 45	#0.5 30.	29.5 27.	31.9 16.3	20.1 19.6	14.6 23.7	14.3 39.	 ¥.∵
iw as swittinisty	.0 55.	1.49	60			c,	е	~	4	The Establishment of the State	cy								
iM t. sairtidisiy no\bms J9 000d. sanilis0 iM n. sairtiidis2V	1 17.0 55.	32.1 49.	2 39.8	25.0	24.3	16.2	12.3	12.5	4 .	iM E> maistidieiV To\ban 34 0004 - smailiab iM 3 - swiniliab	5 16.2	9.6	40.5	29.5	31.9	80.1	14.6	14.3	.e 24.7
IM S/(5 e-lift)disty	.7 10.1 17.0 55.	2.9 17.5 32.1 49.	8 22.2 39.8	25.0	7.1 24.3	5.2 16.2	4.8 12.3	5.6 12.5	4.22 20.9 22.4	IM CLE anistituteby rotann Pt 000% agaitte? IM Es seistiditeby rotann Pt 0004 agaittes IM 34 aeistidieby IM 34 aeistidieby	6.5 16.2	2 15.9 29.6	5 23.9 40.5	16.1 29.5	6.14 31.9	5.2 20.1	5.0 14.6	14.3	.7 10.2 24.7
To North and Tool of a spatified by Victor and Library Control of the Control of	10.1 17.0 55.	17.5 32.1 49.	2.8 22.2 39.8	14.6 25.0	.1 7.1 24.3	.3 5.2 16.2	.1 4.8 12.3	.3 5.6 12.5	10.9 22.4	To be an and to be a smilled by the smill distribution of the smill distribution of the smilled by the smill by the smilled by the smilled by the smilled by the smilled by	.3 8.5 16.2	2.2 15.9 29.6	2.5 23.9 40.5	16.1 29.5	.2 6.4 31.9	.3 5.2 20.1	5.0 14.6	5.5 14.3	10.2 24.7

--- indicates that the condition has occurred exactly 0.00 percent of the time. $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

A blank indicates that the data are not available.

SHAW AFB, SUMTER, SOUTH CAROLINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

w	Total Occurrences of Obstructions to Vision	19.8	28.9	45.5	55.¥	4.6	6.9	12.2	16.2	8. 8.		Total Occurrences of Gestructions to Visita	24.3	8	39.1	34.1	16.4	15.6	20.1	55.6	% .9	
	Tolbine anivolf) faud (behinedaus)	1	į	;	}	1	1	7	į	o.		Dust (Blowing and/or Suspended)	1	}	!	;	ò	;	ì	į	9	
	wond Batwold	i	;	1	i	į	;	į	i	į		wond Salvold	1	i	į	į	i	ł	}	ļ	į	
	ezeH To\bns esione	9.4	9.6	17:1	14.2	6.2	3.9	8.1	9.3	9.6		Sanoke and/or Hare	10.7		18.8	18.2	4.6	8.5	4.11	11.7	12.5	
	90 _d	15.1	80.5	32.8	9.3	3.6	3.3	4.5	7.2	11.7		Bog	15.1	19.5	25.1	16.0	8.1	4.6	9.01	12.4	14.4	
	To annearment LatoT. noitatigierq	7.5	9.7	6.7	6.2	5.8	0.9	9.6	1.1	9.9		To senderwood istol noiteigibers	4.01	10.6	11.9	11.0	9.01	10.0	6.6	9.0	4.01	
	राज्य	į		į	:	;	:		i	ļ		Heli	ŀ	;	;	į	ŀ	ó	{	;	0.	
ER	Show and/or Sleet	1	ł	:	;	}	į	1	ļ	į	E E	guon sud/or greer	ú	ķ	οį	.≄.	ò	ņ	ű	0.	ú	
OCTOBER	Freezing Bain and/or Freezing Drizzle	;	;	į	1	1	į	į	:	}	E W	Tookana Rain and/or Preezing Drizzle	ņ	ė	9.	ij	7	ŗ.	á	ij	ú	
8	elssimC mo\bos miss	7.5	4.6	6.1	6.2	5.8	6.6	5.6	1.1	9.9	J.H.C.	Rein and/or Crissle	0.01	10.2	11.2	10.4	10.1	9.3	5.6	6.9	0.01	
200	Thunder (With or Without T	7	r.	œ.	į	o.	ė	٠.	œ.	o.	1	Laccibicacion. Linudes (Airi os Mirhon	;	₹:	o.	ó	o.	o.	οį	7	7.	
	Cloud Cover 13/10	63.2	7.09	9.61	19.3	45.0	47.0	57.2	63.8	54.5		01/67 4-And prints	52.2	50.7	41.0	37.4	æ.	37.5	45.0	8.0	43.8	
40/	Apna 59 0904 sanilieo 18 è asidilidialV	9.92	34.6	£6.3	30.8	23.1	17.71	17.0	19.7	86.9	-	Cestings shoot Pt and/or	30.8	35.9	9.4	37.2	28.7	4.45	25.8	27.9	31.8	
4(2)	Cetiings <2000 Pt end/ Wistiiiisiv	15.0	8	8.5	17.3	10.3	4.5	8.9	0.1	14.7		Ceilings <0000 Pt andi::0	18.6	21.5	23	95.6	17.3	14.2	13.2	15.5	18.5	
40	>\bmm of 000> egailis0 iw c\rl = sairfilidisiV	1.7	3.7	9.6	8.	;	į	ij	۲	1.4		Totalings >200 Ft and/or Wishbilities <1/2 Mi	5.0	9.9	9.9	8.9		1.1	1.5	2.8	ě	
ī	ancidevreedC to medmuR	2,323	2,324	2,324	2,325	2,325	2,325	, 382 287	2,323	18,591		annitavisad0 to redmarK	2,323	2,323	8 38	2,325	2,325	2,324	2,325	2,324	18,594	
	Hours	20-00	60-60	90-90	09-33	7(-21	2-17	18-20	21-53	All Houre 1		#curs	20-00	03-05	90-90	09-11	15-14	15-17	07-81	51-43	All Hours	
			_		_							1										
:	Total Occurrences : f Obstructions to Vision	17.2	34.1	16.0	16.1	6.1	5.2	8.3	10.7	18.3		To escriptional Laio? doistV or encitourisedO	23.3	28.7	45.2	86.8	12.1	10.3	14.3	16.0	2.5	
	To boar and behind and for the series of the	1	ì	}	o.	i	;	į	į	o.		Tolbae gaitel (Blowing and/or	į	Ì	į	į	;	į	;	ò	o.	
	Blowing Snew	1	i	i	ì	i	;	;	ļ			eoug Puleolg	į	į	;	;	1	1	į	į	1	
	sash tolbas shom2	9.9	7.2	14.5	9.3	3.9	2.7	4.6	5.7	6.8		Accel Tribne exions	9.3	10.7	19.3	17.1	9.1	9.9	10.0	10.0	17.4	
	805	11.5	3	99.0		2.3	9.6	3.9	5.1	12.6		2 0.1	13.2	80.8	89	6 11	£.3	3.9	4.6	6.9	11.7	
	Total Goommences	6.5	7.5	7.7	6.7	7.8	9.5	8.9	6.9	9.7		3. c-orparatopo6 im²-07 : noldadigioenT	7.8	4.6	8.3	6.8	5.3	6.5	6.3	6.9	7.0	
	Heii		1	ļ	i	į		i	-	ł		T3#H	į	}	1	ì	į	-	į	i	ì	
BER	Sect acobas von		ì	:	i	į	:	;	1	į	9		1	ļ	۲:	0.	į	i	į	1	o.	ΑL
SEPTEMBER	Treezing Bairser's eiszing Bairser's	1	}	;	į	;	ì	į	į	-	307137	a		1		ì	i	i	}	1	i	ANNOAL
SEF	Sissing no/bas miss	6.9	7.5	7.7	6.7	7.8	8.5	6.9	6.9	7.6			7.8	4.6	9.5	6.8	5.3	6.5	6.3	6.9	7.0	•
20	Thunder (With or Withol Precipitation)	9	ø	ø	o.	ė.	1.6	1.8	0.1	89.		Thunder (With or Without	٠.	-:	ó		ď	o,	c,	e.	7	31
	Oligi Tevol buof	\$6.6	52.5	38.1	±.	28.1	37.6	45.4	55.3	4; 3		Cloud Cover 13/10	55.7	55.2			4.54	43.2	53.2	56.1	49.5	
40	Ceilings «4,000 Ft and/c Visitiittes» «6 Mi	1 %	41.1	53.7	9, 1	ą. R	19,3	18.1	18.7	30.3		Cellings (4000 Ft and/or Visibililies (6 Mi	28.2	35.7	45.3	1.15	27.0	18.7		21.7	7.13	J.
10	Ceilings <2000 Ft and/o Visibilitites *3 Mi	6.41	94.8	S.		11.3	89	9.0	9.1	16.7		To\bas 24 0000> egailis0 TA\bas 34 0000> egailis0	15.6	8	X6		11.6	8.8	7.9	20.5	15.2	J
ı	Ceilings <200 Pt and/or	1.1	6.5	7.9		ú	7	7	ć	2.5		Ceilings <200 Ft and/or Visibilities <1/2 Mi	ě	5.6	6.5	1.1	ď	۲.	9.	в.	2.3	
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^{0.0} indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

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SHAW AFB, SUMTER, SOUTH CAROLINA WIND ROSES

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SHAW AFB, SUMTER, SOUTH CAROLINA

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SHAW AFB, SUMTER, SOUTH CAROLINA WIND ROSES

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ELLSWORTH AFB RAPID CITY, SOUTH DAKOTA (Lat. 44°09'N, Long. 103°06'W, Elev. 3286 ft.)

Ellsworth AFB is located about five miles northeast of Rapid City on the extreme eastern slopes of the Black Hills. The "Hills" flank Ellsworth to the southwest through the northwest with elevations exceeding 7200 feet within 30 miles of the base.

Poor flying conditions in the Ellsworth area occur most often from December through April. Most of these poor conditions are in the form of low stratus and fog, and are usually associated with upslope winds. Radiation fog is very infrequent and of short duration.

During the summer months from May through September, ground fog may form after the passage of a thundershower. The fog can lower visibilities below one mile; however, it seldom lasts more than one or two hours.

Thunderstorms occur most often in June, July and August. When compared with other areas of the United States the frequency of damaging hail is quite high.

Air pollution is no real problem to aviation in the Ellsworth vicinity.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from February 1939-May 1943, July 1943-June 1945 and April 1948-June 1967; with the exception of cloud cover for which data are not available prior to 1946.

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Te	Temperature $(^{\circ}F)$	$^{\circ})$ arm	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	32.5	36.4	41.0	56.1	67.2	75.7	85.6	84.9	73.8	63.4	47.1	38.6	58.7
Mean	22.3	26.2	31.2	45.3	59.5	65.2	73.7	72.6	61.7	51.6	36.6	28.6	47.8
Minimum	11.9	15.6	21.2	34.2	45.5	54.4	61.5	60.1	49.3	39.7	26.0	18.4	36.6
			Щ.	Record	Temperature	ature	Extremes	ໝ ໝ					
Maximum	99	72	8	87	97	105	108	901	103	76	11	4/2	
Minimum	-25	-23	-18 F	7 20 31 Period of Record:	20 of Rec		42 1939-1	42 41 19 1939-1945, 1948-1965	19 948-19	14 65	-14	-22	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	.57	.72	1.02		1.68 3.08 3.16 1.63 1.60	3.16	1.63	1.60	.99	.67	.57	97.	16.08
Snowfall* 4.8 6.7 (*Hail was included in Snowfall Summary prior to January 1956)	4.8 6.7 uded in Snowfall to January 1956)	6.7 nowfall y 1956)	ω̈́	8.5 6.6 Period	.9 of Rec	. h ord:	T Precipit Snowfall	5 6.6 .9 .4 T T Period of Record: Precipitation Snowfall		.2 1.0 3.7 4.1 1943-1945, 1948-1965 1948-1965	3.7 , 1948	4.1 -1965	36.7
		Su	rface	Winds	(Knots	.) - Re	cord F	Surface Winds (Knots) - Record Peak Gusts	s t s				
Wind Direction Velocity	NNW 62	NW 61	N 78	W WNW WNW 72 59 70 Period of Record:	WNW 59 of Rec	WNW 70 ord:	NE SSW 70 63 1949-1963	ssw 63 963	NNW 53	WINW 55	NW 65	NW 62	

Maximum and/or Minimum Anemometer Height: 100 feet 04/53; 13 feet 04/56

Percentage Frequencies of Occurrence of Specified Weather Conditions

	O.	Total Occurrences of Obstructions to Visio	8.7	9.5	11.9	15.0	6.6	8.8	8.8	4.6	9.6	Total Occurrences of Chairmations to Vision	6.4	9.7	6.6	7.5	6.4	5.0	6.4	5.5	4.9
		Suspended)	;	ó	o.	3.	ú	~!	o,	}	7	To/bine and/or Suspended)	2.	٦.	i	œ	4.	ī,	ų.	.≠.	αi
		Blowing Snow	3.0	3.1	3.0	3.1	3.1	2.8	3.6	3.4	3.1	wone aniwold	1.0	€.	9	-7.	ŗ.	4.	9.	6.	9.
		sasH to\bns salone	1	٠.	Τ'	į	ł	7.	e.	i	o.	Since another salound	0.	}	÷	ì	7	۲,	-:	;	7
		904	5.8	4.9	9.5	8.8	6.7	5.9	5,2	5.1	9.9	304	5.2	6.7	9.1	0.7	4.2	4.1	4.1	3.8	5.5
		Total Gecurrences of Precipitation	19.6	6.0	17.7	15.8	13.9	14.5	18,1	20.1	17.5	Total Occurrences of Precipitation	13.8	14.0	14.9	13.7	13.5	13.4	14.5	13.9	14.0
		Link	ł	1	į	i	1	ļ	1		1	रम्भ	i	į	1	1	;	0.	-	1	o,
	RY	1001S 40/pure mong	19.4	19.1	17.1	15.2	13.5	13.7	17.4	19,1	16.7	seets mo/pum work	7.9	8.2	8.8	8,2	6.5	5.7	7.1	6.9	4.4
	FEBRUARY	Preening Bain and/or Preening Drinie	۲٠	4.	'n	'n	o,	٦:	- ₹.	ņ	-4,	APRIL Freezing Sain and/or Freezing Brizatie	C.	5.	۲.	3,	Ģ	çi.	٦:	ભુ	ņ
	FE	sissing motion of states	9.	9	ņ	٠.	÷	6.	9.	۲.	٠	elzzird mo'bnæ miafi	6.2	5.7	5.9	5.1	7.3	8.0	7.7	7.5	6.7
	gnet	Thunder (With at Witt Precipitation)		;	į	į	1		į	1	;	Trecipitation)	0	1	ļ	į	ď	۲٠	6.	9,	ņ
		SI/E2 TevoS buolD	42.2	41.7	9.00	4.75	5.5	8,92	35.3	0.04	33.9	Cloud Cover 23/10	9,44	38.9	28.1	299.5	21.2	7.13	6.63	41.0	31.4
2	20/1	Cellings **Localitics***********************************	24.7	25.8	25.2	23.5	21.8	25.4	23.8	22.7	23.7	echnas 37 0004> agailias: 2X 3 - seinilidia!V	20.7	55.6	25.2	27.3	25.7	23.4	39.7	19.9	23.1
	ac, p	Ceilings <2000 Ft and Visibilities <3 Mi	17.6	17.7	18.9	17.3	15.6	9,41	16.5	17.4	6,91	The Expension of the Color of t	13.8	15.5	19.5	9.61	15.8	13.5	12.4	13.3	15.4
	10/	Ceilings <290 Ft and Visibilities <1/2 Mi	2.4	3.5	4.4	5,9	1.4	1.5	5.0	2.7	9,5	Cellings <200 Ft and/or Visibilities <1/2 Mi	2.5	5.6	5.6	1.6	.7	ŷ,	1.2	1.7	1.7
	st	Number of Observation	2,201	2,200	2,200	8,198	2,192	2,197	2,199	2,198	17,585	exclaration of Spectrast	2,426	62,420	2,428	2,428	2,428	124,5	624,4	2,423	19,418
1		gorna	20-00	03-05	90-96	09-11	15-14	5-17	02-91	21-23	All Fours 1	Hours	20-00	63-05	83-96	11-60	18-14	15-17	18-20	23-73	All Hours 15
5						-							0	Ç)	0	9	-	-	-	٥.	4 (#
	uc	Obstructions to Visto	6.9	7.1	4.9	0	8	9	cu	7.5	9	Obstructions to Vision	~	60	'n	æ	-1	9.5	'n	6.5	10.2
		Total Occurrences of	9	ţ	۲	9,0	7.8	9.1	7.	-	7.6	To separations fatoT	3.5	10.8	12.5	11.8	9.7	6	6	C)	Ä
		To kee solvole and or selection of the s	9	1	12	.1 9.	.1 7.	.1	7.	7.	.0 7.	To be appropriate to the second secon	.1 9.	.2 10.	.2 12.	.2 11.	.2	6.	.3	e,	7.
2		(papuadsmg			3.4 7.				3.7 7.	4.c 7.		gnebeugeq}									
or a property		Tolbhe galvelet faud (behreque)	1	į	1	۲:	۲:	Ŧ.	3.7 7.	1	٥.	makbas galvaln tend	٠.	ς.	αį	ď	e,	ņ	m.	ď.	7.
or opening		groajuR guoa DrajuR guoa LoajuR guoa	1	į	1	3.3 .1	4.0 .1	Ŧ.	3.7 3.7 7.	1	3.6	wond gatwolf and reflected from gatwolf (behinded)	٠.	ς.	4.1	4.0 .2	3.2 .2	3.1 .3	5.7 .3	2.72	3.3 .1
national of the		Smoke and/or Haze Showing Snow Show Showing Snow Show Showing Snow Showing Snow Sho	4,2	3.7	3.4	.1 3.3 .1	1. 0.4 0.	3.8 .1	3.7	у, г.	o. 3.8 c.	(papuedang ur/pos dispote) sand would dispote	1, 1,6	9 9.7 .2	.1 4.1 .2	5. 4.6 5.	.1 3.2 .2	.1 3.1 .3	5.7 .3	S. 7.5 W.	.1 3.3 .1
north of the		Pode and/or Haze Backe and/or Haze Back and/or Haze Bowling Snov	2.7 14.2	3.4 3.7	4,6 3,4	6 5.7 .1 3.3 .1	3.7 .0 4.0 .1	i, i,0 3.8 .1	3.7 3.7	3.5 4.0	o. 9.8 c. 9.8 3.	(papuadang ac/pow dopace) sand ac/pow dopace) ac/pow dopace woug dupace	6,3 3,1 ,1	.0 6.9 3.7 .2	6.3 .1 4.1 .2	5. 2. 4.6 3.	6.2 .1 3.2 .2	7 6.2 .1 3.1 .3	6.4 .2 2.7 .3	5. 7.5 4. 4.2	5 6.6 .1 3.3 .1
oritode to		uolisidiosa de constante de con	2.7 14.2	3.4 3.7	4,6 3,4	6 5.7 .1 3.3 .1	3.7 .0 4.0 .1	i, i,0 3.8 .1	3.7 3.7	3.5 4.0	0. 9.8 6. 9.9 .0	papedang input disposed pand with 11, put excess with 21, put excess you input disposed pand input disposed	6,3 3,1 ,1	.0 6.9 3.7 .2	6.3 .1 4.1 .2	5. 2. 4.6 3.	6.2 .1 3.2 .2	7 6.2 .1 3.1 .3	6.4 .2 2.7 .3	5. 7.5 4. 4.2	16.5 6.6 .1 3.3 .1
arroada to		HARI. TANK TANK TANK TO ADDIVISE SAUGH TO ADDIVE SAUGH TO ADDIVE SAUGH TO ADDIVE SAUGH TO ADDIVE SAUGH TO ADDIVE SAUGH TO ADDIVE SAUGH TANK	5 15.9 2.7 4.2	3 16.9 3.4 3.7	.8 15.4 4.6 3.4	.1 14,6 5.7 .1 3.3 .1	11.6 3.7 .0 4.0 .1	7 3.8 4.0 3.8 .1	14,7 3,7 3,7	1h.9 3.5 4.c	0. 3.8 6, 9.9 3.48	papedang input disposed pand with 11, put excess with 21, put excess you input disposed pand input disposed	.1 19.3 6,3 3.1 .1	.0 19.0 6.9 3.7 .2	4 17.0 6.3 .1 4.1 .2	15.6 7.4 .2 4.6 .2	1 13.6 6.8 .1 3.2 .2	2 15.7 6.5 ,1 3.1 .3	15.5 6.4 .2 5.7 .3	5, 7,2 d, 4,2 ST	16.5 6.6 .1 3.3 .1
	ARY	tend (States) and	.2 15.5 15.9 2.7 4.2	.2 16.3 16.9 3.4 3.7	14.8 15.4 4.6 3.4	14.1 14.6 5.7 .1 3.3 .1	.2 11.9 11.6 3.7 .0 4.0 .1	.2 11.7 12.4 4.0 3.8 .1	14.3 14.7 3.7 3.7	1h.9 3.5 4.c	24.0 3.8 6, 9.9 3.41 0.41	(mapuedamo, pard parter	17.1 19.3 6,3 3.1 ,1	18.0 19.0 6.9 3.7 .2	15.4 17.0 6.31 4.1 .2	14.1 15.6 7.4 .2 4.6 .2	12,1 13,6 6,2 .1 3,2 .2	12.2 15.7 6.0 .1 3.1 .3	13.7 15.5 6.4 .2 5.7 .3	24. C. 4, 4, 2, 2, 17 B.4.	14.7 16.5 6.6 .1 3.3 .1
	JANUARY	TO term than 301/ore and or the section 2012 of the section and the section of th	.2 15.5 15.9 2.7 4.2	.2 16.3 16.9 3.4 3.7	.1 14.8 15.4 4.6 3.4	14.1 14.6 5.7 .1 3.3 .1	.2 11.9 11.6 3.7 .0 4.0 .1	.2 11.7 12.4 4.0 3.8 .1	.1 14,3 14,7 3,7 3,7	14.4 14.9 3.5 4.C	0. 3.8 6. 9.9 3.4 0.44 4.	To preside an entire a service and a service	1.1 17.1 19.3 6,3 3.1 ,1	1.1 18.0 19.0 6.9 3.7 .2	1.1 15.4 17.0 6.3 4.1 .2	s. 6.4 S. 4.7 5.6 15.4 G.	.5 12,1 13,6 6.8 .1 3.2 .2	.3 12.2 15.7 6.2 ,1 3.1 .3	.4 13.7 15.5 6.4 .2 2.7 .3	.7 14.8 4.4 5.4 17.2 5.4 4. 2.7 .2	.0 14.7 16.5 6.6 .1 3.3 .1
oritoda to	JANUARY	gentlessing, procipies and/or heeplessing brings of procipies of procipies of procipies brings of precipies brings of precipies brings of precipies brings of precipies brings of precipies breather breather brings of precipies	.2 15.5 15.9 2.7 4.2	.2 16.3 16.9 3.4 3.7	.1 14.8 15.4 4.6 3.4	14.1 14.6 5.7 .1 3.3 .1	.2 11.9 11.6 3.7 .0 4.0 .1	.2 11.7 12.4 4.0 3.8 .1	.1 14,3 14,7 3,7 3,7	14.4 14.9 3.5 4.C	0. 3.8 6. 9.9 3.4 0.44 4.	A escaled and a man and a	1.5 1.1 17.1 19.3 6,3 3.1 ,1	1.1 18.0 19.0 6.9 3.7 .2	1.1 15.4 17.0 6.3 4.1 .2	s. 6.4 S. 4.7 5.6 15.4 G.	.5 12,1 13,6 6.8 .1 3.2 .2	.3 12.2 15.7 6.2 ,1 3.1 .3	.4 13.7 15.5 6.4 .2 2.7 .3	.7 14.8 4.4 5.4 17.2 5.4 4. 2.7 .2	1,3 .8 14.7 16.5 6.6 .1 3.3 .1
	JANUARY	The and of the confiction of the confidence of t	3 .2 15.5 15.9 2.7 4.2	6 .2 16,3 16,9 3,4 3,7	14.8 15.4 4.6 3.4	5 14.1 14.6 5.7 .1 3.3 .1	1, 0,4 0, 7.5 3,11 0,11 5, 4,	1. 3.8 12.4 4.0 3.8 .1	3.7 3.7 3.7	4 14.4 14.9 3.5 4.C	. 3.8 c. 3.9 3.9 .0 3.8 .0	(espeedang M ACA ACA ACA ACA ACA ACA ACA	.a .o 1.5 1.1 17.1 19.3 6,3 3,1 .1	.29 1.1 10.0 19.0 6.9 3.72	0 1.1 1.1 15.4 17.3 6.3 .1 4.1 .2	5. 0.4 5. 4.7 3.01 L41 9. 4.4 8.	1.3 .5 12,1 13,6 6.2 .1 3.2 .2	.1 1.2 .3 12.2 13.7 6.2 .1 3.1 .3	1.7 .4 13.7 15.5 6.4 .2 2.7 .3	2. 7.2 d. 5.4 5.4 17.2 5.4 d. 2.7	0.0 3.3 .8 14.7 36.5 6.6 .1 3.3 .1
	JANUARY	Visibilities 6 MM Cloud Cover (3/10 Freezing fain and/or brizzle Freezing fain and/or brizzle Freezing fain and/or brizzle Freezing fain and/or brizzle Mail Freezing fain and/or faze Smoke and/or faze Smoke and/or faze Smoke and/or faze Smoke and/or faze Smoke and/or faze	1 47.53 .2 15.5 15.9 2.7 4.2	1 45.06 .2 16.3 16.9 3.4 3.7	33.6 3.4 .1 14.8 15.4 4.6 3.4	26.45 14.1 14.6 5.71 3.3 .1	1, 0,4 0, 7,5 31,1 0,11, 5, 4, 2,75	29.2 ,6 ,2 11.7 12.4 4.0 3.8 ,1	46.8 3.7 3.7 3.7	2 46.4 4.6 14.4 4.6 3.5 4.6.	2 37.0 0, 14.0 14.6 3.9 .0 3.6 .0	MANAMENT CONTRACTOR OF THE PROPERTY OF THE PRO	2 43.2 .0 1.5 1.1 17.1 19.3 6.3 3.1 .1	.4 46.29 1.1 18.0 19.0 6.9 3.72	29.0 1.1 1.1 15.4 17.0 6.3 .1 4.1 .2	24.68 .9 14.1 15.6 7.4 .2 4.6 .2	22.3 1.3 .5 12.1 13.6 6.2 .1 3.2 .2	82.6 83.7 .1 1.2 .3 12.2 13.7 6.0 .1 3.1 .3	32.0 1.7 .4 13.7 15.5 6.4 .2 2.7 .3	39.7 2.2 .7 14.8 17.2 5.4 .4 2.7 .2	31.8 .0 1.3 .8 14.7 16.5 6.6 .1 3.3 .1
	TAVE COAS OANDARY	Gentlings <3 wt Smokening flowers Smoke and/or Haze Smoke and/or Haze Smoke and/or Haze Freeling flowers Freeling flowers Mail Freeling flower Mail	,5 16.1 47.5 4.2 15.9 2.7 4.2	19.1 45.0 6 .2 16.3 16.9 3,4 3.7	20.1 33.6 7 .1 14.8 15.4 4.6 3.4	19.0 26.45 14.1 14.6 5.7 .1 3.3 .1	16. 0 th 0. 7.5 3.11 11.0 5. 4 2.72 7.61	16.4 29.2 6 .2 11.7 12.4 4.0 3.8 .1	17.6 ho.8 ,h .1 14.3 14.7 3.7 3.7	18,2 46.4 6 14,4 14,9 3.5 4,0	6 18.2 37.0 3.1 14.0 14.6 3.9 .0 3.8 .0	MARCHE GAVIE SAND THE STAN	6 26.2 43.2 .0 1.5 1.1 17.1 19.3 6,3 3.1 .1	27.4 40.29 1.1 18.0 19.0 6.9 3.7 .2	28.5 29.0 1.1 1.1 1.5.4 17.0 6.3 .1 4.1 .2	26. 7.44. 5. 4.7. 7.61 13.4 6. 8 8.45. 7.85	24,4 22,3 1,3 .5 12,1 13,6 6,2 .1 3,2 .2	82.6 83.7 .1 1.2 .3 12.2 13.7 6.0 .1 3.1 .3	23.1 32.0 1.7 .1 13.7 15.5 6.4 .2 2.7 .3	24.1 39.7 2.2 .7 14.8 17.2 5.4 .4 2.7 .2	25.4 23.9 .0 1.3 .8 14.7 16.5 6.6 .1 3.3 .1
	JANUARY	Supprintes 4/2 Milestification Supprint and or single state of the st	831 2.5 12.5 18.1 47.53 .2 15.5 15.9 2.7 4.2	2.3 13.6 19.1 45.06 .2 16.3 16.9 3.4 3.7	2.6 14.0 20.1 33.6 71 14.8 15.4 4.6 3.4	2,3 13,0 19,0 26,45 14,1 14,6 5,7 .1 3,3 .1	1, 0,4 0, 7,6 3,11 6,11 5, 4, 2,72 7,31 9,11 8,1	1.7 12.0 16.4 29.2 3.6 .2 11.7 12.4 4.0 3.8 .1	2.6 12.0 17.6 40.8 3.7 14.3 14.7 3.7 3.7	2.7 11.3 18.2 46.4 6 14.4 14.9 3.5 4.0	377 2.3 12.6 18.2 37.0; .1 18.0 11.6 3.9 .0 3.8 .0	MANA STATE STATE OF S	4.2 18.6 26.2 43.2 .0 1.5 1.1 17.1 19.3 6.3 3.1 .1	4.4 20.0 27.4 40.29 2.1 18.0 19.0 6.9 3.7 .2	22.0 28.5 29.0 1.1 1.1 15.4 17.0 6.3 .1 4.1 .2	20.7 26.7 24.6 19. 14.1 15.6 7.4 2 4.0 .2	16.2 24.4 22.3 1.3 .5 12.1 13.6 6.2 .1 3.2 .2	15.0 62.6 63.7 .1 1.2 .3 12.2 13.7 6.2 .1 3.1 .3	15.5 23.1 32.0 1.7 .4 13.7 15.5 (.4 .2 2.7 .3	3.4 17.2 24.1 39.7 2.2 14.8 17.2 5.4 4.2 2.7 .2	3.7 18.8 c5.4 JL 9.0 L.1 8.7 18.7 6.6 L.1 3.3 .1
	JANUARY	Cellings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200 F and Onlings <200	1 2.5 12.5 16.1 47.53 .2 15.5 15.9 2.7 4.2	13.6 19.1 45.0 ,6 ,2 16,3 16,9 3,4 3,7	14.0 20.1 33.6 71 14.8 15.4 4.6 3.4	13.0 19.0 26.45 14.1 14.6 5.7 .1 3.3 .1	1. 9 16.7 27.2 3.4 12.0 3.7 4.0 .1.	12.0 16.4 29.2 3.6 .2 11.7 12.4 4.0 3.8 .1	12.0 17.6 40.8 3.7 14.3 14.7 3.7 3.7	11,3 18,2 46,4 ,6 14,4 14,9 3.5 4,0	0. 9.8 G. 9.8 July 4. 14.0 18.6 3.9 .0 3.8 .0	Mediant of the sadion of the s	18.6 26.2 43.2 .0 1.5 1.1 17.1 19.3 6,3 3,1 .1	20.0 27.4 40.29 1.1 18.0 19.0 6.9 3.7 .2	5.4 22.0 28.5 29.0 1.1 1.1 1.1 15.4 17.0 6.3 .1 4.1 .2	4,1 80,7 26,7 24,68 .9 14,1 15,6 7,4 .2 4,0 .2	2,5 16,2 24,4 22,3 1,3 .5 12,1 13,6 6,2 ,1 3,2 ,2	2.6 15.0 22.6 23.7 .1 1.2 .3 12.2 13.7 6.2 .1 3.1 .3	3.1 15.5 23.1 32.0 1.7 .4 13.7 15.5 6.4 .2 2.7 .3	17.2 24.1 39.7 2.2 .7 14.8 17.2 5.4 .4 2.7 .2	1. 3.3 5.6 مركا كالجاد المارة ال

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.
--- indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

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Percentage Frequencies of Occurrence of Specified Weather Conditions

To sentermination later moisiv of emolibrized	4.2	6.5	4.9	3.5	4.5	1.9		2.1	3.6	to Occurrences of tructions to Vision	roT edO	2.1	2.1	2.1	1.6	1:1	1:2	1.6	1.5	1.6
Dust (Blowing and/or Suspended)	7.	7	۲.	r!		į	0.	;	7	ro/bra galowing sendod)	2nel Drau	٠.	į	į	į	1	1		7	e.
Blowing Snow		٥.	1	1	1	1	į		o,	eong Buy	no ta	1	1	1	1	1	1	į	;	i
Smoke and/or Hate	7.	ď	₹.	₹.	ē.	۳.	ī.	÷	÷	ezaki to/bna e	ows.		θ.	6.	Θ.	9.	8.	٠.	۲.	a)
304	3.9	6,1	6.5	2.7	2.1	1.6	1,8	9.1	6.5		36-7	1.3	2.0	1.7	يه	-17	,d	φ.	۲.	0.5
To anomarca of Precipitation	0.01	3.6	5.4	7.7	9.0	9.2	5.5	E.3	9.5	to amonaranos te notamitati	Lors	4.6	4.3	3.5	5.7	k.3	4.7	4.7	4.7	C4 !
Li aH	[į	1	1	1	٦.	1	-	়	1	Het	•	1	1	1	7.	7	1	0.	ej.
Snow aud/or Sieer	4	4	e.	ů.	٠.	7.	٠ ٠	-:	ď	şəəts doypus r	vous	1			•	1	i		1	-
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- indicates that the condition has occurred exactly 0.00 percent of the time $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time. A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

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3.6	3.3	3.2	2.7	3.0	. 8.4	4.6	3.6	3.5	Fog.	4.5	1.2	5.1	2.1	2,1	8.3	3.8	2.8	5.5	Precipitani
. ii.8	- 12.7	- 12,2	9.9	9.6	. 11.3	- 13.3	. 13.9	9.51	Total Occurrences of Preclyttation	- 6.3	1.7	. 7.2	- 5.5	6.4	. 6.0	6.3	6.9	- 6.5	Total Occurrences of
	4.	-	5		1.01		13.0		Snow and/or Sleet 📆	2.0	2.0	6.1	1.3	-:	1.8	2.5	3.3	2.3	2207.0 10/000 2000
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39.1	45.0	43.7	31.6	29.5	30.5	5.0	1,8,1	1.8.7	Cioud Cower £3/10	53.4	61.5	55.1	45.9	1.94	47.3	19.4	1.09	61.2	Cloud Cover £3/10
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6.6	9.1	5.4	6.9	6.9	5.6	6.9	10.0	6.6	Total Occurrences of Precipitation	5.6	5.6	5.7	6.5	4.7	5.8	5.9	9.9	0.9	To securrence in Total Cocurrences no.
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1.04	48.4	43.8	31.4	30.2	89.9	36.4	52.4	50.3	Cloud Cover <3/L0	51.8	58.1	6.8	42.4	1.94	47.2	8.00	59.5	61.7	Cloud Cover 43/10
15.3	14.7	13.0	13.7	14.5	16.2	17.6	17,0	16.1	Tolling of 00004> suniliso FM 0> saitilidisiv	7.01	8.9	6.9	9.1	11.5	13.3	12.4	17,6	4.6	Teilings <4000 Ft and/or Visibilities & Mi
10.1	4.6	8.2	4.8	9.5	11.0	11.6	7.1	п.0	Cellings <2000 Ft and/or Visibilities <3 Mi	6.7	5.5	5.6	5.1	6.0	8,9	8.8	7.7	6.1	Ceilings <2000 Ft and/or Visibilities <3 Mi
1.5	1.4	1.1	1.5	1.2	1.2	1.7	5.5	1.6	Ceilings <200 Ft and/or Visibilitites <1/2 Mi	ċ.	9,	ļ	٦:	٦:	ď	1.3	1.2	φ.	Cellings <200 Pt and/or Visibilities <1/2 Wi
17,972	2,247	2,247	2,246	2,246	2,246	2,246	2,247	2,247	Number of Observations	17,996	2,250	2,250	2,249	2,249	2,250	2,250	2,249	5,249	Sumber of Observations
A11 Hours	21-23	18-20	15-17	12-14	09-11	90-90	03-02	00-05	gonta	A11 Hours	21-23	18-20	15-17	12-14	09-11	90-90	03-05	90-05	sanoji

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Cloud Cover 43/10

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MAY		11-16 17-21 22-27 23-33 34-40 41-47 48-55 156 Total	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	2	8.9	28.1 23.9 9.7 5.3 1.5 .4 .1 .0 100.0	HUNDER OF OBSERVATIONS	ADDE		7-10 11-16 17-21 20-27 28-33 34-40 51-47 48-55 -56 Total	2.9 2.3 .8 .3 .0 .0 .0 8.1 1.6 .7 .2 .1 .0 .0 3.9		1.5	3.3 2.9 1.0 4 1.1 9.7	3.5	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	2.0 1.9 1.0 .6 .3 .0 .0 .7.6	2,9 3,2 1,5 .9 .2 .0 10.1	क्षा	29.9 20.5 6.8 3.1 .8 .2 .0 .0 .0 100.0	
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MAY		8-6 7-10 11-16 17-21 22-27 28-33 34-80 61-47 48-55 19481	18 1.2 1.2 1.2 1.2 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		8.8	28.1 23.9 9.7 5.3 1.5 .4 .1 .0 100.0	HUNDER OF OBSERVATIONS	ATOL		0-3 4-6 7-10 11-16 17-21 22-27 28-33 34-49 51-47 48-59 256 Total	2.9 2.3 .8 .3 .0 .0 .0 8.1 1.6 .7 .2 .1 .0 .0 3.9	3.68 0. 0. 0. 0. 1. 2. 2.1 6. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1. 9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	3 1.7 3.3 2.9 1.0 th 1.1 th 1.0 th 1.	1. 2. 1. 2. 1. 2. 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	14 1.0 1.1 1.2 1.2 1.1 1.0 1.0 1.0 1.5 1.5 1.5 1.5 1.0 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	.3 1.1 2.9 3.2 1.5 .9 .2 .0 10.1	4'11	29.9 20.5 6.8 3.1 .8 .2 .0 .0 .0 100.0	

ELLSWORTH AFB, RAPID CITY, SOUTH DAKOTA WIND ROSES

	2	Speed	4.8.5.6	40.0	9.99	4.9	12.0		4.6	_			2	Speed	9.7	0.00.00 0.00.00 0.00.00	9.60	5.4.5	. 444 5.6.44		8.8	
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Knots	28-33	4000000000000000	5.0
Speed in Knots	12-33	ন্ন্ত্ত্ত্ব্লুক্ৰ্ব্ৰুব্ৰুক্ৰ প্ৰত্ত্ত্ব্লুক্ৰ্ব্ৰুব্ৰুব্ৰুক্ৰ	5.3
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ANNUAL

BERGSTROM AFB, AUSTIN, TEXAS (Lat. 30°12'N, Long. 97°40'W, Elev. 507 ft.)

Bergstrom AFB is situated seven miles southeast of Austin, Texas, on the west bank of the Colorado River. The airfield lies in a transition zone between the relatively flat farm land of the coastal plain to the east and the hilly brush covered Edwards Plateau to the west.

Flying weather in the Austin area is quite good throughout the year with the best conditions existing in late summer and early fall. Thunderstorms do occur in all months of the year, with May as the peak month.

During the spring thunderstorms frequently occur in the form of squall lines and are often accompanied by strong winds and hail.

The most common restriction of ceilings in this region results from low stratus which form in the maritime air flowing upslope from the Gulf of Mexico. These low ceilings generally form about 1000 feet above the surface by midnight and then lower to 500 feet or below by morning. Such conditions occur most often in the spring and fall.

Fog occurs with greatest frequency during the winter and early spring.

Most of the fog is of the advection type and results from warm moist tropical air overrunning the cold land surfaces.

Local smoke sources are of no great concern to aviation, due to the almost exclusive use of gas and electricity and the absence of heavy industry in the Austin area.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from November 1942-January 1946 and October 1946-May 1964; with the exception of cloud cover for which data are not available prior to 1946.

BERGSTROM AFB AUSTIN, TEXAS

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Te	Temperature $({}^{\circ}F)$	o) ern	F)						
	Jan.	Feb.	Mar.	Apr.	May		June July Aug.	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
Maximum	60.2	65.1	71.5	71.5 79.3	4.98	95.6	92.6 95.9 96.5	96.5	8.1	81.8	70.1	62.6	78.9
Mean	50.2		54.8 60.6	68.9	4.97 6.89	82.7	82.7 85.5	85.6	8.62	70.9	59.5	52.3	68.5
Minimum	39.9		49.5	58.3	66.1	72.6	44.2 49.5 58.3 66.1 72.6 74.9 74.5 69.3	74.5	69.3	59.8	48.8	41.7	57.9
			æ	ecord	Temper	ature	Record Temperature Extremes	ស					
Maximum	%	95	92	66	66	104	901	107	107	24	8	91	
Minimum	-5	ω	19 P	37 eriod	37 46 57 Period of Record:		66 60 1942-1964	964	53	34	25	17	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	1.71		2.36 1.72		2.93	3.20	2.78 2.93 3.20 1.34 1.58 3.69 2.98	1.58	3.69	2.98	1.78	1.78 2.00	28.07
Snowfall* .2 (*Hail was included in Snowfall Summary prior to January 1956)	.4 uded in Snowfall to January 1956)	.2 Snowfa ry 195	EH	$_{ t eriod}$.0 of Rec	ord:	T .0 .0 .0 .0 .0 Period of Record: Precipitation Snowfall	.0 itatio	.0 194 194	.0 1942-1964 1946-1964	0.	۲.	.7

Surface Winds (Knots) - Record Peak Gusts

Wind Direction Velocity	WNW 63	SW 51	SSW 63	SSE NNW WNW 41 62 69	NNW 62	MNM 69	15.1	N NNE 57 55	NNE 52	NNE 44	NNE 43	SSW 55
				Period	of Rec	ord:	•	1948-	1963			

Maximum and/or Minimum Anemometer Height: 101 feet 04/55; 10 feet 04/59

BERGSTROM AFB, AUSTIN, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstruction	13.6	16.8	24.7	21.5	12.3	5.6	9.5	3.5	14,6		to series doisiv of	ranced Later SmuttedO	4.5	8.5	18.0	9.8	۲.	3.8	8.8	1.5	9
	Dust (Blowing and/or Suspended)	e.	6.	1.1	1.4	1.6	9,1	1.2	۲,	1,2		20, pcm 9	Dust (Blowin Suspended)	9.	1.3	1.5	1.0	1.2	0.1	ţ-	ŗ.	0.5
	nous Suinorg	-	1	1	1	1	į	:	1				Monë gaivoid		:	;	i	į	į	į	1	
	same said/or face	۲.	1	1,4	1.7	1.2	۲-		4.	9,		əzvii	ro/bas salond	ı.	٦.	ō.	1.1	.7	6.	ż	ŗ,	ب
	903	12.7	15.9	22.3	16,4	4.6	7,2	7.8	8.3	12.7			20 _d	3.5	7.1	15.6	6.8	2.8	1.9	1.6	1.1	7
	To securrences of Trecipitation	12.9	16.3	16.1	14,1	5.6	3.1	9.1	10.2	12.2		10 890E2	ruppo LatoT citatiqiperf	7.3	8.8	90.0	7.5	6.5	5.5	4.4	4.5	9.9
	13.68	;	į	į	;	į	į	;	:	1			LiaH		ł	;	1	1	1	1	}	1
'RY	Snow and/or Sleet	ņ	9.	ŀ.	~.	į	1	٦.	ŗ.	ŗ.		1 00 TS	ao/pum nous	1	į	i	;	1	į	1	:	į
FEBRUARY	Treezing Baisson? Preszing Baisson?	₹.	9.	<i>ع</i> .	Ŀ.	.3	7	۳.	ŗ.	-₹.	A P R 11	wizz etzz	ied Boiseerd ind Boiseerd	;	1	į	į	į	į	;	i	
FE	elszinG no'bne misk	12.3	15.5	14.9	13.2	9.3	9.0	8.7	9.8	11.6	•		To\bns aisH	7.3	8.3	8.5	7.5	6.5	5.5	4.4	4.5	9.6
į,	Brecipitation: Inunder (With in Withou	7	1.2	ŗ.	r:	ņ	ç	٦.	4	₹.	:	tu p or Witnow	tiw) mabuud Liimidigisem	1.5	2,3	1.2	۲.	1.0	1.9	1.7	1.1	4.
	Cloud Cover £3/10	9,04	37.9	35.2	8	33.6	35.0	₩ 9.0#	44.1	36.8		01/85	Cloud Cover	35.4	30.4	21.8	24.5	27.7	31.9	36.5	44.7	31.6
an	Cellings < 4000 Pt and/J	43.4	6.74	30.6	4.94	39.6	31.9	28.1	33.3	÷.		5k 9+ 10,79% kg 00	Selfings especial	946.0	95.8	55.2	3.34	35.6	23.2	9.91	26.0	38.0
40	Cettings <2000 Fr and.: 3M t> as::ilidisiV	33.6	9.96	38.3	35.9	25.3	18.2	16.3	23.0	28.4		TN E≠ CC E+ and co	oeliliage <29 VisibilidialV	33.9	39.3	39.9	3.3	12.2	5.7	1.0	15.8	23.5
4	Cellings *200 Ft and/o	3.2	6,3	7.0	2,8	ej.	6.0	1.1	2,1	B.		FW 7, 1> FG put 13 3	Cettings v20	-4,	٥.	1.2	ŗ.	7	į	οų	ŗ,	.37.
	Number of Observations	1,779	1,777	1,781	1,782	1,782	1,761	1,780	1,778	042,41		sun]]fhAlbs	d) lo madmu.K	1,797	1,800	1,876	1,871	1,871	1,866	1,818	1,606	114.711
	Hours	20-00	03-05	90-90	09-11	12-14	15-17	18-20	21-23	Au1 Hours			e.moy	.:0-06	50-Ec	80-90	09-11	12-14	15-17	18-20	23-73	Ail Hours 1
	obsituotions to Vision	I _	_				_						opartmetons	' I				9	3			
	To among the of	13.3	18.0	25.3	18.8	12.9	10.3	10.5	11.2	14.6			Total Goour	7.0	12.4	8.7	13.8	1.6	6.3	5.5	5.5	6,6
	Toloving and or or Silvering and or or or or or or or or or or or or or	٠.	rų.	٦.	. .	Ę.	۲,		-7.	ú			Dust (Blowin	1.3	1.4	1.8	1.9	8.3	2.8	5.0	1.5	1.9
	Monting drow		-	٠.	°,	-		-		0.			word Briwold		-		-	-			i	į
	эдай то\ <i>b</i> га эхож д	۲.	ŗ.	6.	1.0	۲.	r.	ú	ŗ.	'n		əceli	in a syone and the state of th		çi.	۲.	6.	9.	<u>.</u>	ė.	e.	r,
	903	12.7	17.4	21.0	17.4	11.5	9.6	10.0	10.6	13.8			30 <u>4</u>	5.8	10.3	18.3	11.0	÷.7	2,5	2.9	ă.	7.5
	Total Conumrences of Trecton	6.51	16.0	15.1	14.2	11.6	9.6	10.4	11.2	7:31		in evine	ranoo(Tabol Citabligloens	8.0	9.5	3.6	9.0	5.8	£.3	4.5	4.8	6.9
	Hait			İ	-	o.	-	i	}	o.			। सम्बद्धाः	i	Ì	1	:	;	1	٠,	~.	0,
ARY	feetS no/bms wons	7.	9	9.	6.	ō,	Φ.	₹.	-7.	٠.	CH		re/pue wong	i	;	.,	εų	ŗ.	7	-	1	7
JANUARY	ro\bas alsö geisəsr? sitsirü gaisəsr?	1.0	1.4	1.6	1.1	٠.	9.	ę.	6.	1.0	MARCI	To\bas a	ing maisseni ing maisseni ing maisseni	-	6.	Τ.	-	CV.	;	-	į	o,
•	Cactatatiqisərd	11.3	14,1	13.0	12.3	10.3	9.7	9.1	10.0	11.1			Precipitati	9.0	9.3	9.5	8.8	5,6	4.2	4.5	4.8	6.8
3n	Thunder (With or Witho	.3	ė,	Τ.	₹	7.	o.	•	ŗ,	ú	-	odije ao d	Thunder 'Bit	8.			9.			6.	÷	v.
	Visibilities «6 Mi	41.7	39.4	31.7	27.5	30,0	32.4	39.5	42.6	35.5			Cloud Cover	10.5	35.9	8.	28.1	31.4	33.9	39.4	45.8	35.5
40	Vena #5 0004 * sanitie0	39.4	¥3.6	9797	44.3	36.6	31.9	29.8	34,1	38.5	,ac	o\bas #1 00:	eellings cellings cellings	9.04	47.4	1.64	0.44	35.6	25.6	21.3	19.3	36.7
10	Visibilities <1/2 Mi Ceilings <2005 Pt and/	30.5	35.2	38.5	36.0	26.1	89.6	19.5	25.1	28.9	40	o/bme # 900	Cellings <20	29.7	35.5	36.8	8	16.4	4.6	8.1	18.2	23.1
2	Cellings <200 Pt and/o	4.4	1.6	7.2	3.4	0.5	0.5	1.7	2.5	3.5	-		Seilings <20	1.5	3.8	4.2	6.	ů.	ď	₫.	6.	1.5
	smoltevreadC to redem#	2,001	2,008	2,046	2,041	2,041	140,5	2,030	2,000	115,211		suo; ;wAJas;	do no sedemik	1,947	1,946	1,950	1,950	1,947	1,945	1,946	1,944	15,575
	я доп.	00-05	03-05	90-90	09-11	12-14	15-17	18-20	21-23	All Hours			e r uo∄	00-05	0 3- 02	90-90	09-11	12-14	15-17	18-20	21-23	All

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

BERGSTROM AFB, AUSTIN, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

To assert to continue of noisiv of anoitsurfado	1.1	3.6	7.5	o.	aj.	ωį	0.1	6.	2.2	Total Occurrences of Obstructions to Vision	s:	1.3	6.4	÷	o.	1	-	}	1.0
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Smoke and/or Haze	9.	1.1	2.4	1.3	₫.	ē.	.7	9.	1.0	Smoke and/or Haze	1	ci.	4.	;	7.	-	}		7
304	15	2,6	3.6	r-	PŢ	ca.	÷	m		Pog	è.	7.3	u^.	9.	οų	-	į	;	ů,
to annormnoon ladnf moltaliqioarq	3		÷	65	m 	10.	1:3 2:4	a: ei	2	No secretarioso isdu? noitsiiqiceri	£-3	e i	7.	eri evi	्र स	5.6	ü	: 2	5
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sizsird ro\bus nissi	겳	<u>ا</u>	3.6	10	.5		~	6,0	10	A sizzizi welban alnu	1.3	5.6	3.1	ē.3	2:5	(0) (4)		â	e)
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01\E2 hovo2 buo1?	25.6	5	6	3	e.	ν. (ζ.	54.7	4.39	g g	C1/to meyor broad	÷.	67.3	45.2	43.9	37.6	£1	54.5	76.1	얾
Tolbing of 1000 - agailing PM 4: selfillidialV	71.12	2.2	52.1	16.3	ã	9.1	5.3	ë.s	8	no\bna #% 0004- ngariio? NM A- asisiidia!V		1791	23.7	8.7	3.5	.5	5:5	9	ä
Thus "Thomas agailte) iM Expedititidisty	3.8.6	5.	7.	23.5		2.3	1.3	5.1	-	Tollane 17 OCAL Smaller	÷.6	5.5	13.9	ei Si	0.0	0.1	o;	Ċ	6,2
To\bms JY CoS. samilied IM c\i. cellilifisiV	7.	5	è	4	;	۲.	;	}	4	Tollings *?** Out. Sading	7.	:	91	1	į	į	-	;	7.
AntoitmyseedS to medmuN	1,797	1,796	1,970	1,87	7,961	1,839	1,795	1,778	14,620	anotherned? To reduce	1,960	3,860	3,336	1,938	1,325	1,301	1,960	1,866	15,143
yorns	20-00	03-05	96-36	13-6	12-77	5-17	3-30	69-1	All Pours	emoji	20-05	63-65	95-36	11	5	5-53	02-81	57-53	ALI Hours
	,									1		-							
To someranoso fainT noisiv of smoid-unitadO	2.1	6.3	13.5	3.9	2.3	1.6	1.6	1.2	-† -†	% semenanoso Indot mois!/ o. smoidourdado	′:	1.5	3.9	4	r:	ę.	οi	۲.	ę.
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ezwy ic/pums ewoods		5.	7	1.1	1.2	6.	6.	CV	φ.	Smoke and/. r Haze	-	ıų.	1.0	-4	cv	(V	(ų	-!	ű.
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To an american' fairt acitatiqiness	-F	6.2	5.5	3.9	Ġ	ë.	3.6	6.0		jo snauszność legoj	7.7	.4	.:	ċ!	è:	3	12	14	3
L z.m.H		Ì	1		-	۲:	۲.	•:	1	1902	1	Ì	1	1	i	:	1	ł	1
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etssimi modern nies	-	6.2	5.5	3.9	3.5	e)	3.6	3.9	4.	Pinaint nother atest	7.7	ä	1.5	11.3	13	e5	6,	ä	ri ri
turdrik a. drik) gebandi (modikaliquen)	7.	2.3	1.0	ė.	1.3	1.7	2.1	1.4	1.5	montrix ac drivi ashmoff (not test quoser)	• •	Lug.	κų	-7.	3,1	O.	64	7	i,
attit and broth	37.7	30.1	8	23.0	23.6	2).5	41.0	46.1	31.5	Cloud Cover 23/10	ej.	7.1	35.2	4	5.43	35	52.2	73.6	
molbus 12 Ordal sgailis: IM As seidlidiaik	38.3	₹. 8.	55.3	9.54	27.7	14.5	10.2	18.3	7.7	no/ban 39 (6004 - egailish) IM An emisilidisiV	<u>.;</u>	19.8	23.3	25.5	1	23	2.5		12.8
moldom 19 000% agailted iM t. asiiilidiniA	8	36.3	39.5	19.1	4.6	65	3.1	9.6	17.9	nolitings coops by and/or Visitings coops	6.0	17.2	8	7.5	3	4	w.	9.	6.5
Tolbins 19 000: sgmlfled Millitain - 1/2 Mi		1.2	1.1	-	1	1	ď	7	-7.	ro\bne ff 00S> amniifeD IM S\I> asiffidialV	į	۳.	eų.	į	i	}	1	i	۲.
anoitewread to reduci	1,860	1,960	1,941	1,941	1,931	1,916	1,966	1,858	15,167	Snoilervased to andmud	1,858	1,8%	1,941	4,46,4	1,933	1,301	1,859	1,96	15,153
sanoj	37-56	53-55	80-30	29-31	12-14	15-17	19-20	21-23	All Hours 1	ноте	20-00	03-05	90-90	11.60	75-27	15-17	16-20	21-23	in the state of th
	1 "	.,		••						1	-	_	-						

BERGSTROM AFB, AUSTIN, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

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Ü	(ncitabligioses) siszisi To\bna nia8	3.6	5.5	5.0	4.1	3.5	3.6	3.4	3.2	3.9	DE	Actan)	Precipity	ä	10.8	11.0		7.0	ý	₹.9	9.4	ů
şn:	oditw no ditw) mebaudī	1:1	7.0	-	7-	٠,	ż	ę.	œ.	ω.	gn:	очаты до часы)	Tabandī	4.	9.	ŗ.		o.	.3	-₹	4	m,
	Cross Cover 23/10	61.4	55.4	4.1	43.0	43.2	49.5	59.7	65.7	52.5		01/E2 194		48.3	47.9	38.6	34.3	36.2	37.7	48.0	1.64	41.9
10	Ceilings choop Fr and/	21.2	30.0	₹.62	30.5	25.5	11.8	10.0	12.0	85.2	æ,	\bnz # 0004 \ IM 0 = ealt	sanilie:	35.2	38.5	41.5	38,3	32.5	25.3	24.6	9.62	33.2
40	Cellings <2005 Pt and/	15.6	21.6	27.5	16.7	6.5	3.9	4.5	7.0	12.9	20,	/bns 13 000;> [K.E> self	Ceilings	3.€	28.8	31.9	33.0	21.1	14.2	13.8	19.5	8.9
1	Oeilings <200 Ft and/o Wisibilicies <1/2 Mi	۲.	1.9	3.1	7	1	٦.	۲.	۲.	ø,	ac	<200 Pt and/o thes <1/0 Mi	Seilings Visitings	3.7	9.4	5.9	2.3	9.	4.	6.	is.	2.5
	Fumber of Chservations	1,945	1,945	2,031	2,031	2,082	1,998	1,953	1,952	15,877		amoitavaed())	Sumber o	1,970	1,972	2,125	2,123	2,118	2,100	2,032	1,969	16,4ng
	Hours	00-05	03-05	90~90	09-11	12-14	15-17	02-81	21-23	All Hours 1			Hours	20-00	03-05	90-90	09-11	15-14	15-17	18-20	21-23	All Fours 1
			-	•	Ĭ	•							1			~	*					
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•	Blowing Smow Tolone and/or Suspended) Suspended Oceal Joed Tolone of	1	:	:	:	:	:	:	B 3.	!	•	entrences of	2 Bulwolf (1	at £'	.3 19	н е:			g I	-	e.
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SEPTEMBER	Total Countries of Millor	.2 17.1 64,3 1.1 4,6 4,6 1.3	16.7 60.3 1.2 5.6 5.6 3.5 .2	.1 33.9 46.5 .9 5.7 5.7 12.1 1.1	4 36.1 42.4 ,3 4.7 4.7 3.6 ,5	18.7 36.4 .9 4.3 h.3 1.3 .2	9.5 43.8 1.8 5.5 5.8 .8 .8	5.8 57.8 1.3 4.5 4.5	5 68.5 1.2 h.6 h.6 h.6 .8	19.2 52.2 1.1 5.0 5.0 3.0	NOVEMBER	C1/17 Microsoft College of Ki	and the state of t	4 31.8 40.9 .4 7.7 5 7.7 6.8 .8	.6 37.7 46.4 ,6 8.8 1, 9.8 11.0 1.0 4.44 7.75 3.	6 43.1 40.0 .3 8.6 .1 .0 8.7 17.6 2.4 3 19.	36.3 39.5 .2 7.7 .1 .2 6.0 6.9 2.73 11.	30.4 42.9 .4 6.9 .1 7.0 4.6 1.20	14.6 .1 6.0 6.9 4.0 1.30	.3 6,3 6.3 4,1 1,1	8 24.0 51.7 .3 5.6 5.6 4.5 1.0	1 30 1 455 .3 7.2 .0 .2 7.3 7.7 1.1
SEPTEMBER	Austrilles (6 Mt) Outlings Accord Pt and/Or Pt and/Or Dristles (6 Mt) Precipites (6 Mt) Sale and/Or Mterior Stock Control C	3 14,2 17,1 64,3 1,1 4,6 4,6 1,3	60.3 1.2 5.6 5.6 3.52	Z7.1 33.9 46.5 .9 5.7 5.7 12.1 12.1 1.7	38.1 42.4 .3 4.7 4.7 3.6 .5	36.4 .9 4.3 1.3 1.3 2	9.5 43.8 1.8 5.5 5.8 .8 .8	5.8 57.8 1.3 4.5 4.5	.2 8.5 68.5 1.2 h.6 h.6 h.6 .8	.2 52.2 1.1 5.0 5.0 3.0 .4	NOVEMBER	A) (c) Mark of (c)	eguillos sguill	8, 48,9 ,4, 7.7 2, 7.7 4, 6,8	27.6 37.7 46.4 ,6 8.8 1 8.8 11.0 1.0 3 ts	43.1 40.0 .3 8.6 .1 .0 8.7 17.6 2.4 3 19.	39.5 .2 7.7 .1 .2 6.0 6.9 2.73 LL	4 42.9 .4 6.9 .1 1. 7.0 4.6 1.20	20.8 44.6 .1 6.0 6.9 4.0 1.30	6 17.4 51.5 .3 6.3 6.3 4.1 1.12	24.0 51.7 .3 5.6 5.6 4.5 1.0	19.1 30.4 45.5 .3 7.2 .0 .2 7.3 7.7 1.42
SEPTEMBER	Assistitities 4.1/2 and contracting and contract of the contra	.3 14,2 17,1 64,3 1.1 4,6 4,6 1,3	.6 21.1 16.7 (6.3 1.2 5.6 5.6 3.52	1.8 27.1 33.9 46.5 .9 5.7 5.7 12.1 1.7 1	.1 18,4 38,1 42,4 .3 4,7 4,7 3.6 .5	.1 5.8 18.7 36.4 .9 h.3 h.3 1.3 1.3 .2	.1 3.5 9.5 43.8 1.8 5.8 5.8 .8 .8 .8	2,7 5,8 57,8 1,3 4,5 h,5, ,5 ,5 ,6	5.2 8.5 68.5 1.2 h.6 h.6 h.6 .8	12.3 19.2 52.2 1.1 5.0 5.0 3.0 3.0	NOVEMBER.	Account at July (control of the Account of the Acco	Sentiness Sentiness	1.2 23.4 31.8 40.9 .4 7.72 7.7 6.8 .8	2.7 27.6 37.7 46.4 ,6 8.8 1 8.8 11.0 1.0 3 12.	3,5 29,6 43.1 40.0 .3 8.6 .1 .0 6.7 17,6 2.43 19.	1.0 23.9 36.3 39.5 .2 7.7 .1 .2 8.0 8.9 2.73 11.	.3 13.8 30.4 42.9 .4 6.9 .1 7.0 4.6 1.20	9.5 20.8 U.6 .1 6.0 6.0 6.3 4.0 1.30	.1 9.6 17.4 51.5 .3 6,3 6,3 4,1 1.12	.4 15.8 24.0 51.7 .3 5.6 5.6 4.5 1.0	1.1 19.1 50.4 65.5 .3 7.2 .0 .2 7.3 7.7 1.42
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Main and/or Drizzle

ST/EF HEADS PROTS

^{0.0} indicates that the condition has occurred less than 0.05 percent of the time.

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indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

BERGSTROM AFB, AUSTIN, TEXAS WIND ROSES

	Mean	Speed	40,000,000	8.0.5 6.0.5 6.0.5	2.69.4 1.51.4		8.9	1		Ne s	Speed	3 3 8 5 6 6 6 6 6 6	5.62.23.2	8,5-7-16 10,2-3		5.4	
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		13						#0 Maga			1,1-47						AND HER
		34-40	ó	o.	ó		9	TOTAL NUMBER OF ORSERVATIONS			34-40						OTAL NAMED OF ORSERVATION
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F	e,	17-23	9446644	9,77,51	5445		9.0			å	23-27	ففطط	0,4,4,6	400400		0.01	
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JANUARY	With the design	29-33 3		شغش فأفاد	श्नन्त्र		9.		МАВСН	Speed in Mine	11 11 11 11 11 11 11 11 11 11 11 11 11		ódóó	નંતનાનાન		0.	č
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BERGSTROM AFB, AUSTIN, TEXAS WIND ROSES

	2	Speed	84949494494664696 849496499466466		8.9		į	Wind Speed	**************************************	7.5
		Total	gggggggggggggggggggggggggggggggggggggg	9.3	0.001	14613		Total	พูพูพูพูลุลุษุมีผู้ผู้พูลุลุ . น ถื สุดเพลายายายายคลังจังจัง ย	15144
		256				1 25 50		35,		SMS
		ù8-55				INVERSION ON OBSERVATIONS		65-64		BESTVATI
		41-47				B M		74-17		8
		34-40				TOTAL MAG		34-40		TOTAL NUMBER OF OBSERVATIONS
	note	28-33	66		7		<u>.</u> ;		ó ó	ó
JUNE	Speed in Knots	22-21 2	66666446446		1.9		AUGUST	22-27 24	ંંં લેં લેંલેલાં મું	بو
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					9.7			17-21		4.
		11-16	خرشية والمقرض والمناز والمناز		4,45			11-16	سيم ونه نيانية ونيه نيانان	18.1
		1-10	خۇمۇھۇنۇلانىيە ھۇمۇھۇنۇلانىيە		30.1			7-10	ವವವನ್ನವನ್ನು ಇತ್ತುಗಳ ವಹ್ಮದ ಕಾಣಕಾಗಿ ಕಾಟಕಾಗಿ ಕಾಣಕಾಗಿಕೆ	33.8
		9-4	هم ها بـناه هم و ن ي ي خدا خدا دا		17.2			9-1		ง ส
		Ş	عوط شيخ وشوط والمعارض فالمعارض فالمعارض فالمعارض والمعارض	9.3	18.3			3	ۈخدىئۇنۇللىرى ئالىرىمىنىڭ ئالىرىلىدىن ئا	23.1
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	New	Speed	999		9.0	J	į	Wind		8.3
	Ken	Total Speed	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.6	0.000	19161	4	Wind Total Speed	-	100.0 8.3 15151
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	Mean	41-47 48-55 256 Total	აგი განი განი განი განი განი განი განი გ	6.6	0.001		ķ	48-55 256 Total	-	15151
		34-40 41-47 48-55 256 Total	ό ở ởở « « « « « « « « « « « « « « « « « « «	6.6	0.001	TOTAL RANGES OF DISTRIBUTIONS 1526		34-40 43-47 48-55 256 Total	ন্ধন্ধ্ৰৰ্থনীয়ুমুদ্ন ব্ৰহ্মপুৰ্বিশ্ৰম্পন	TOTAL NUMBER OF OBSENVATIONS 100.0
AY		28-33 34-40 41-47 48-55 256 Total	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6.6	.1 .0	TOTAL INCHES OF DESIRANTIONS		34-40 43-47 48-55 256 Total	٥٠ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١ ١	O. OOL O. OOL SEEDIN TATOL OF SEEDING TATOL O. O. OOL OOL OOL OOL OOL OOL OOL OOL
MAY	Speed in Knots	22-27 28-33 34-40 41-47 48-55 256 Total	ό ở ởở « « « « « « « « « « « « « « « « « « «	6.6	0.001	TOTAL INCHES OF DESIRANTIONS	Cont. In Sect.	34-40 43-47 48-55 256 Total	ন্ধন্ধ্ৰৰ্থনীয়ুমুদ্ন ব্ৰহ্মপুৰ্বিশ্ৰম্পন	TOTAL NUMBER OF OBSENVATIONS 100.0
MAY		28-33 34-40 41-47 48-55 256 Total	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6.6	.1 .0	TOTAL INCHES OF DESIRANTIONS		34-40 43-47 48-55 256 Total	ರ ರವಚಿತ್ರವರ ರ ರ ಇವನ್ನಡಚಿತ್ರವರ್ಗ ಇವಹನ್ನಡಚಿತ್ರವರ್ಗ ಇವಹನ್ನಡಚಿತ್ರವರ್ಗ	O. OOL O. OOL SEEDIN TATOL OF SEEDING TATOL O. O. OOL OOL OOL OOL OOL OOL OOL OOL
MAY		22-27 28-33 34-40 41-47 48-55 256 Total		6.6	0.001 ,0 ,0 ,100.0	TOTAL INCHES OF DESIRANTIONS		22-27 28-33 34-40 41-47 48-55 256 Total	64666446666666666666666666666666666666	. 5 .0 total number of deservations 15151
MAY		17-21 22-27 28-33 34-40 41-47 48-55 256 Total	2.1100-13524000104 4.100-054414000000 6.00-100 6.00-0	6.6	8.1 1.8 ,1 ,0 100.0	TOTAL INCHES OF DESIRANTIONS		17-21 28-87 28-49 34-40 hith 48-55 256 Total		5.4 .5 .0 TOTAL NAMBER OF OSCIEVATIONS 12151
MAY		11-16 17-21 22-27 28-33 34-40 41-47 48-55 256 Total		6.6	25.3 8.1 1.8 .1 ,0 100.0	TOTAL INCHES OF DESIRANTIONS		11-16 17-21 28-27 28-43 34-40 41-14 48-55 72-52 Total	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	23.1 5.4 .5 .0 100.0 100.0 23.1 5.4 .5 .0 TOTAL HARBER OF ORSERVATIONS 15151
MAY		7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 256 Total		6.6	30.2 25.3 8.1 1.8 .1 .0 100.0	TOTAL INCHES OF DESIRANTIONS		T-10 17-25 12-27 13-14 On-th 08-35 13-71 31-11 01-7		33.3 23.1 5.4 .5 .0 TOTAL NUMBER OF DESENVATIONS 19551

BERGSTROM AFB, AUSTIN, TEXAS WIND ROSES

	F	Speed	80 95 F. 80 F. F. F. F. F. F. F. F. F. F. F. F. F.	- 0 0 0 0 - 0 0	9 W-4 W	6.7			2 2	Speed	30.00	20 8 9 9 0 20 4 8 7 6	5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0		7.8	
		Total	3 44 4 4 4 2 4 6 6 6 6	20 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	i di i	16.7 100.0	15877			Totel	86.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	1442 da.	4 -1 01 01 02 09 0 0 4 0 0 0 0	16.1	0.001	16410
		356					SMOIT			256						LIONS
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		17.7					10 M			14-14			9.		•	B B B
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ANNUAL

BIGGS AFB EL PASO, TEXAS (Lat. 31°50'N, Long. 106°24'W, Elev. 3961 ft.)

Biggs AFB is located five miles northeast of the city of El Paso and 10 miles north of the Rio Grande River. The Franklin Mountains lie 10 miles to the west, the Juarez Mountains 15 miles to the southwest, and the Hueco Mountains 25 miles to the east. All have peaks near 7,000 feet in elevation.

The mean annual precipitation is less than eight inches, and the climate is quite dry throughout the year. More than half of the precipitation occurs in the summer from brief but sometimes heavy thunderstorms.

With dry loose soils and sparse vegetation any wind in excess of 25 miles per hour will generally lower surface visibilities in blowing dust or sand. In cases of prolonged high surface winds reduced visibilities may be encountered to altitudes as high as 12,000 feet above ground. Short periods of blowing dust may also occur with the outflow of air ahead of well developed thunderstorms.

Low ceilings and visibilities occur most often during the winter months, December through March, and are most often associated with cold fronts which generally pass the station from the northeast and become stationary as they approach the mountains to the west.

Some industrial smoke from El Paso and Juarez occasionally reduce surface visibilities at Biggs AFB but generally not below six or seven miles. However resulting haze layers may reduce visibilities aloft, and during such conditions pilots have reported difficulty in visually locating the field.

BIGGS AFB (Cont'd.)

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from April 1941-June 1945, September 1946-March 1947, February 1948-January 1959 and July 1959-December 1964; with the exception of cloud cover for which data are not available prior to 1946.

BIGGS AFB EL PASO, TEXAS

Temperature, Precipitation, and Wind (Peak Gust) Summary

												•	
MONTHLY MEANS				Τe	Temperature (°F)	o) ern	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	56.4	62.0	67.7	77.0	86.1	94.5	93.8	92.3	4.78	6.77	65.2	57.6	76.3
Mean	4.44	49.2	55.0	0.49	72.8	81.5	82.4	81.0	75.6	65.3	52.0	45.4	63.9
Minimum	32.0	36.1	42.2	50.8	59.4	68.3	70.8	69.5	63.6	52.6	38.6	33.0	51.3
			14	Record	Temperature Extremes	ature	Extreme	Ω Ω					
Maximum	92	8	86	96	901	107	107	105	103	93	83	75	
Minimum	6	Q	19 F	26 Period	38 51 of Record:		60 59 1941-1964	59 964	91	34	17	ſΛ	
MONTHLY MEANS				Preci	Precipitation (Inches)	uI) uc	ches)						
Precipitation	.42	.42	.26	.27	.29	.50	.50 1.62 1.35	1.35	1.22	.7 ⁴	.27	.48	7.83
Snowfall* (*Hail was included in Snowfall Summary prior to January 1956)	1.2 ded in o Janua	1.0 Snowfa ry 195	i,	T Period of		T .0 Record:	.0 .0 Precipitation Snowfall	.0 itation 11	• 11 11	.0 1941-1964 1946-1964	ċ	1	4.3
		Su	rface	Winds	Surface Winds (Knots) - Record Peak Gusts	- Re	cord Pe	eak Gue	sts				
Wind Direction Velocity	wsw 71	№	wsw 56 P	WSW 67 eriod	WSW W WSW 67 55 49 Period of Record:		SE N 49 43 1946-1963	N 43 963	39 39	24 W	WSW 48	≥6	

Maximum and/or Minimum Anemometer Height: 50 feet 04/53; 13 feet 05/55

BIGGS AFB, EL PASO, TEXAS Percentage Frequencies of Occurrence of Specified Weather Conditions

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... indicates that the condition has occurred exactly 0.00 percent of the time. 0.0 indicates that the condition has occurred less than $0.05 \ \rm percent$ of the time, but more than $0.00 \ \rm percent$ of the time.

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BIGGS AFB, EL PASO, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

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Percentage Frequencies of Occurrence of Specified Weather Conditions

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⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time. 0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time. A blank indicates that the data are not available. Mons Buivola

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BIGGS AFB, EL PASO, TEXAS WIND ROSES

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BIGGS AFB, EL PASO, TEXAS WIND ROSES

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SEPTEMBER		22-27 28-33 34-40 41-47 48-55 156 Total	9 999 9911119	Ç Ç		0.00.1		NOVEMBER	Spend in Knota 22-27 28-33 30-40 kg-47 48-55 ,56 Total	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	646466 666 666 667 668	9'86	.6 .1 .0 100.0	
SEPTEMBER		17-21 22-27 28-33 34-40 41-47 48-55 56 Total	9 999 9911119	9		0.001 0. 1. 6.		NOVEMBER	Spend in Knots 17-21 22-27 28-33 34-40 41-47 48-55 ,56 Total		64485111 61666 6666 6666 6666 6666 6666 666	979.	2.0 .6 .1 .0 100.0	
SEPTEMBER		7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 15-51	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$227333131 9		0.001 0. 1. 0. 1.00.0		NOVEMBER	Spend in Knota 7-10 11-16 17-21 22-27 28-33 30-40 k1-47 40-55 55 Total			978.	18.6 7.8 2.0 .6 .1 .0 100.0	
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SEPTEMBER		7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 15-51	1.8 1.3 1.9 1.3 1.0 0.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	\$227333131 9		15.1 25.0 22.8 6.4 .6 .1 .0 100.0	TOTAL MARIE OF CISTANTIONS	NOVEMBER	Speed in Knota b=6 7-10 11-16 17-21 22-27 28-33 30-40 k1-k7 48-55 .35 Total	2.8 3.9 3.6 3.9 3.1 5.0 1.0 1.0 1.1 1.1 1.2 1.2 1.2 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	त्वात्य्यं स्वयं व्यव्यं व्यव्यं व्यवं व्	9.2	18.6 7.8 2.0 .6 .1 .0 100.0	

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ott.	9-3	9-1	7.30	11-16	17-21	22-21	28-33	34-40	41-47	19-55	355	Total	Bpe nd	
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CARSWELL AFB FORT WORTH, TEXAS (Lat. 32°46'N, Long. 97°27'W, Elev. 617 ft.)

Carswell AFB is located in the Grand Prairie region of northeast Texas in an area characterized by numerous low eroded cliffs and dissected plains which are traversed by many small streams and rivers. The city of Fort Worth lies immediately east of the airfield.

Weather conditions related to aviation show a marked change from summer to winter in the Fort Worth Area. The centers of most cyclones and anticyclones pass to the north; however, fronts do pass over the station and as a result poor flying conditions occur most often during the winter.

Low ceilings and visibilities during the winter are brought about not only by frontal activity, but also by the occurrence of low stratus and fog. Such conditions occur when winds at the surface shift to a southeasterly direction pulling the warm moist Gulf air over the cool land surface.

Thunderstorm frequency is greatest in May, but they may occur in all months of the year. During late spring most thunderstorms occur during the hours around midnight.

Smoke is present throughout the year with the highest concentration occurring during the fall and winter when surface inversions are most frequent.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from November 1942-October 1945 and September 1946-March 1965; with the exception of cloud cover for which data are not available prior to 1946.

CARSWELL AFB FORT WORTH, TEXAS

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Т	Temperature $({}^{\circ}F)$	ure (°	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua1
Meximum	55.4	9.09	6.99	76.4	83.8	91.9	95.8	96.5	88.8	79.3	t 99	58.2	76.8
Mean	45.3	50.3	56.4	66.1	0.47	82.0	85.7	85.9	78.5	68.7	55.9	48.4	9.99
Minimum	35.1	39.9	45.5		55.5 63.9 71.8	71.8	75.3	75.1	6.79	57.8	45.2	38.3	56.1
			Æ	ecord	Temper	ature	Record Temperature Extremes	ស					
Maximum	88	88	95	66	100	106	109	110	107	105	89	91	
Minimum	N	7	H TT	31 eriod	31 42 55 Period of Record:		63 61 1942-1964	61 964	52	34	18	11	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	1.80	2.08	2.12	3.69	3.69 4.51	3.13	5.06	1.88	3.26	2.61	1.83	2.10	31.06
Snowfall* (*Hail was included in Snowfall Summary prior to January 1956)	2.1 .8 uded in Snowfall to January 1956)	.8 Snowfa ry 195	·	T eriod	5 T T T Period of Record:		.O T Precipitation Snowfall	T itation 11		T 1942-1964 1946-1964	EH	.	3.9
		SS.	rface	Winds	(Knots) - Re	Surface Winds (Knots) - Record Peak Gusts	eak Gu	sta				
Wind Direction Velocity	NW 45	84 64	£ 69 ₹	WSW 64 eriod	WSW SW NW 64 68 55 Period of Record;		N 47 1947,	SSW NE 54 59 1949-1964	图 62.4	NW 45	N 45	53	

Maximum and/or Minimum Anemometer Height: 65 feet 06/53; 12 feet 04/57

CARSWELL AFB, FORT WORTH, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

To securrences of last on vision to Vision	18.3	19.6	9,42	0.53	9.91	14.5	15.0	13.9	18.5		uo.	to esone	L Occurre	fatoT ttedO	9.6	9.00	18.7	9.21	7.9	9.9	1.1	6.1	9.8
st (Blowing and/or spended)	a :	1.3	1.3	1.4	1.2	1.7	1.9	7.F	1.5			To\ban 1	(Blowing	Pust Suspe	2.1	1:1	1.2	1.1	1.4	2.0	2,1	1.9	1.6
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szaH TO\bna saio	*S =	3.5	9.6	9.0	5.6	4.3	4.4	3.1	4.7			əzvy	TO\bns	Stacke	1.8	5.9	5.6	5.4	3.8	2.0	5.5	1.7	3.5
9-	.d .g	15.8	18.9	6.91	2.01	9.6	8.7	9.6	8.51					Bog	5.0	9.6	12.5	6.2	2.8	5.6	5,6	5.6	5.2
fel Occurrences of ecipitation	ي ايد	5	7.11	10.6	9.1	0.6	8.1	4.6	1.6			jo sabu	orrupsO. noitatiq	Total Preci	6.2	6.3	7.2	6.1	6.7	6.5	7.5	7.0	6.7
τţ	eH -		-	4	1	1	٦:		o.					Heil	7.	1	1	٦:	ı	ı	1	i	0.
₩ 3Heli3 πo\bas wo	45 o	1.2	۲.	1.1	1:1	1.2	1.1	1.1	0.1) eet	S to\bus	ADUS	1	-		1	1	1		1	ļ
AA DAY THE STATE OF THE STATE O	ra v	9.	ć	٠.	9.	.7	۲.	5.	9.	1	APRIL	and/or	ainA gai sirG gai	2991A 2991A	cų.	٦:	!	į	-	1	;	1	9.
F 9(22) TO\bns ni	В С	6.6	10.2	9.5	5:2	7.4	4.9	6.9	8.5		∢	#TZZŢ4	end/or D	Rein	0.9	6.2	7.2	6.1	6.7	6.5	7.2	0.7	9.9
twoiffilm a With medical and the control of the con	17 19	: :	m,	7.	٥i	ú	٠٠	9.	è.		nou	(115M 40	driw) ma molimatiq	Thund	1.9	1.8	1.7	1.	1.6	5.0	2.2	5.6	1.8
ond Cower 13/10	r) g		4.6	37.1	5.5	1.0	1.1.	50.5	42.6			01/6	COVOT :	(Long	H6.8	4.3.2	31	37	9:36	34.5	0.34	51.5	38.1
to\bas #7 coud> smaili iM d: selbilidia	A C		37.7	37.7	31.9	26.7	o.6	25.2	32.6		10/1	- 6 M2	ngs .4000	Visib	24.4	ж. З	38.0	36.6	30.2	21.4	16.5	14.3	27.0
moletan 17 2000 amaiti iM E. aminitidia	1A 0		7.72	27:1	30.5	16.4	14.9	15.2	21.0		40/1	o Ft amo	ngta ::00:	dialV	12.3	18.6	24.0	2.1	9.11	9.4	6.9	8.1	13.7
wo\bms of CCS canili IM S\I > soldilldis	A C	33		1.8	ű.	÷	ď	1.3	1.6		10/	Ff and	ngs <pre>cputtles</pre>	A781P C=111	₫.	9.	÷	7.	۲.	٦.	1	7.	ø.
snollsevenedO to medm	тк 3	38	596,	986,	98,	1,866	98,	1,865	986,		su	erastion	są, jo i	a-querit.	1,990	1,890	1,890	1,890	1,890	1,990	1,890	1,890	15,120
sæn	2		06-30		778	15-17	5	21-13	All Hours 14					s.moj(005	575	9090	35-50	12-11	15-17	18-20	21-23	All: Bours 12
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1: sernemucco lat noisil or anoitounte	10 g		25.7	89	14.7	15.9	15.1	11.9	16.1		uc	itsia ou g sacu	edotjan Scontum	lasof noedo	10.8	- 1	19.1	17.4	10.2	4.6	10.0	9.4	12.3
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osafi to\bina eMo	es c	. (4	 8:	7.5	4.2	0.4	3.5	5.6	3.8			a 2 hr	e arr, poni	natomi:	9.	2.6	0.9	6.5	3.9	2.5	2.7	2.1	3.6
8	P.4 5	15.2	17.6	15.6	₹.01	8.3	6.6	9.3	12.2					Ro4	6.2	e0 	12.7	5.4	5.5	5.4	4.7	4.7	7.1
to securatuos! (at doitatigice		; ii	1.1	0.01	9.3	6.6	7.3	9.0	9.6			រួល ផលា	untinti:	iş cestşi 1930-l	6,2	ei G	6.2	7.5	4.9	5.8	4.2	4.8	4.9
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\$ tests nothing wo	ug:	1.9	1.9	1.9	1.6	1.8	1.3	-,	1.5		Ŧ	149	18 To/bin	noug	0	₹.	5.	.5	٦,	ű.	Ġ	٥.	÷.
AND TOTAL TOTAL OF THE STATE OF	44 ¢	2.5	1.9	1.6	1.3	1.5	1.5	1.8	1.8		MARC	an/pue	ning yai reini yai	Zooday Zooday	ď	٦.	ŗ.	₹.	εń	7:	7	-	Ġ
5 4[22]4.[40/pus ut	BH (7.5	9.9	6.5	4.5	5.2	6.7	9.9		2	A(22).	rd to\bnr	a ninH	0.9	7.6		9.9	5.e	5.4	3.9	4.8	5.9
tuodat With at Wishout an idealijioe		i d	7.	ď.	7:	0.	;	7:	۲:		no		ditte) a		1.1	۲.	.7	₹.	₫,	۲.	۲.	1.1	1.7
55/{T awwo_i pho	L. S	, t	· &	8	34.5	36.1	43.9	49.3	41.3			01/1	fil awweb	Puol')	51.1	47.3	35.5	36.1	38.6	38.6	41.7	51.8	42.6
molybus 13 0004 - agailli jk a- amidilidje			35.3	35.9	38.6	24.9	8.5	4.45	29.5		40/	bne 19 (oook am itii	n (1 4 7) idisi¥	28.7	31.7	38.1	4.	25.0	21.7	9.08		3.5
ro∖bos 49 0000> egatii iMi⊹ neidilidie		9 8		25.1	19.8	15.7	14.5	17.7			10/	bαπ 1¶ (IM E	000°.° ea. 11tins ×	nitie) IdielV	15.7	18.6	24.45	25.2	13.0	10.3	10.3	17.1	15.7
ro/brus 14 005 samili M 5/1, seldilidis	AE CF	, v	3.1	1.2	ú	c,	.5	1.2	1.5		10	TE and/	003 × 890 8 × 500	Ceilir Visibi	1.0	4.4	1.3	₹.	ci	ú		9.	۲.
виој Јактенеб) је тэба	m N	9 9	2,045	2,046	2,046	2,045	2,043	9,046	16,363		8	LAWE FOR	ead() to	тэбший	2,046	2,044	2,046	2,046	2,045	2,045	2,046	2,046	16,364
y.r.	- 1	20-00			12-21	15-17	18-20	21-23	All Hours 1					в тиојі	00-05	63-05	90-90	1140	38-34	15-17	29-61	21-23	A:: Hours

 $0.0\,$ indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

CARSWELL AFB, FORT WORTH, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

Total Occurrences of Obstructions to Wision	3.7	6.7	4.6	3.9	4:1	1.1	5.0	2.5	3,68		Totalv of ano.	coo LatoT ItouritedD	1.2	5.6	10.5	4.3	۲-	٠.	1.4	1.1	8.8
Dust (Blowing and/or Suspended)		7	;	ł	i	;	;	Ċ.	e,		ZO/pume Suja	Suspended	7.	į	-	:	;	۲.	œ	ļ	o.
Blowing Snow		1	ļ	į	1	}	į	į	1		моц	Baivois S			i	ì		i	į		1
azeM Tolbin saloms	2.6	3.6	5.3	2.5	ę.		1.2	1,6	2.3		etwa Jo/	brus salosas	ε0.	1.5	6.3	3.4	ı.	٠.		6.	5.1
3 03	1.2	3.3	4.7	4.1	.5	-≉.	φ.	٠.	1.6			90d	4.	1.0	5,6	0.1	e.	٦.	٥į	ď	.7
Total Occurrences of Precipitation	0.4	5.7	0.4	3.7	6.9	3.7	3.5	2.1	3.6		ucia mmences of	Total Occ Precipita	1.5	2.5	8.8	4.5	2.3	2,3	1.9	1.9	2.2
र इ ल् स		1	1	į	į	1	į	ļ	;			t i wh	1	;	;	į	:	ì		į	
19912 TO\bins wond			1		;		,		;	E-	ieels do	pure apug		;	;	;	:	1	:	;	;
D no nied gaireerif N edszirű gaireerif El		;			•					AUGUST	Rain and/or Drizzle	Saizser?	;	;	;	:	;	;	;		;
Rain and/or Drizzle	0:	5.1	. 0.4	3.7	. 6.5	3.7	3.5	2.1	3.6	AU	elszial ao	\bns nief	1.5	2.5	2,8	2.tr	2.3	2.3	- 6:1	. 6.1	
Thunder (With to Without Predigitating)	2:2	4.5	:	1.3	1.2	1.8	5,0	1.4	1.6	2	uontik to natk (mota	Thunder : Precipits	ú	1.1	æ	₫.	φ.	1.6	1.2	90	ė.
Cloud Cover 23/10	63.6	55.3	12.3	1.4.1	38.1	9,4,	26.0	9,49	51.6		et/f7 de	Cloud Cow	78.0	9.2	54.0	50.3	5.5	39.5	59.8	75.2	58.2
mo/bas 37 0004> emailise0 IM 8- seifilidisiV	0.01	17.1	23.8	23.0	14.6	1.9	5.6	5.3	13.4	3	148 9: 841 *7556 bf 979(;	Cellings Visibilit	2.5	6.9	11.0	10.0	7.5	2.9	2.0 5	2.1 7	5.6 5
TW E> selititidiety	0.4	9.1	9.21	7.0	2.9	2.1	3.4	2.1	5.1	ā	:/ Bine : # 93000 k	Cettings Visibilit	Ci.	3.8	5.3	3.8	1.4	9.	.7	1.1	2.5
Tolbing of Cost sailtidiatv	7.	-:	- :	.1	ļ	cų	1	۲.	7.		*200 Ft and'or	Cellings Visibilit	1	٦.	7	;	;	-	;	1	į
Sumber of Observations	1,890	. 068	1,890	1,889	1,890	1,890	1,889	969	15,118		catifevavado.	grapet ot	1,953	1,953	,953	1,953	. 858	. 256'1	1,951	1,950	15,618
Hows	00-05	03-05 1	06-08 1	09-11 1	12-14 1	5-17	18-50	1-03-1	All Hours 15			Hours.	00-05	03-05 1,	06-08 1,	09-11 1,	12-14 1,	15-17 1,	19-20 1,	21-23	All Houre 15,
	ŏ	0	š	90	12	-	16	5	₹ ¥				90	6	š	\$	12	15	19	2	₹ S
Total Occurrances of noisturesed	6.1	10.5	17.8	6.1	3.6	3.5	4.3	3.5	7.1		g: secuentalia g: secuentalia	ool imrol Staurindo	 	5.1	9.01	0.4	1.4	1.1	1.3	1.5	3.5
Dust (Elowing and/or Suspended) foresteer of Observed to Vision Observed to Vision	.3 6.1	.5 10.5	.5 17.8	٠, 8.1	.2 3.6	.3 3.2	.3 4.3	.3 3.5	.3 7.1		g: securaan	babnaqau3	2.4	5.1	10.8	.1 4.0	.1 1.4	1.1 1.1	.1 1.3	1.5	.0 3.5
Zorwi Cosmrences of											ac/pore states	babnaqau3	4.2 5.4	5.1	9.01						
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Smoke and/or Hate blowing Smow Suspended Smow Total Documentes of	1.53	2.8 45	7.25	J.5 ,4	1.92	1.43	1.9 3	1.43	2.73		eren zo/	Bore shows Sacrete and Sacrete Sacre	1.4	3.4	7.4	2.8 ,1	8.	.7 1.	1.1	1.0	2.30
pos sousantes (Twos. (repaiding (any of the strain) and (but grows grow	4.3 1.53	5 7.5 2.8 5	10.4 7.25	4,2 3.5	1.5 1.92	1.6 1.4 3	1.9 3	1.9 1.43	4.2 2.73		Acet To\ Pos To\back acts (1)	Bore shows Sacrete and Sacrete Sacre	1.0 1,4	3.4	3.8 7.4	1.3 2.81	.6 .81	.3 .71	.2 1.11	.6 1.0	1.2 2.30
to securation from the property of the propert	6.8 4.3 1.53	6.5 7.5 2.85	6.8 10.4 7.25	4,2 3.5	1.5 1.92	1.6 1.4 3	4.7 2.2 1.93	1.9 1.43	5.6 4.2 2.73		3: secondant	actions and tales and tales and tales and tales and and and and and and and and and and	1.0 1,4	3.4	3.8 7.4	1.3 2.81	.6 .81	.3 .71	.2 1.11	.6 1.0	2,8 1,2 2,3 ,0
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Dark Section of Marcon Control	.1 17.5 46.6 3.4 6.6 6.6 4.3 1.53	23,4 40,8 2,8 6,51 6,5 7,5 2.85	34.2 29.0 1.6 6.8 6.8 10.4 7.25	31.2 29.1 1.0 h.6 h.6 h.2 3.5 h	25.8 31.4 1.6 4.5 4.5 1.5 1.9	17.4 35.0 2.0 5.2 5.2 1.6 1.43	12.6 40.3 2.7 4.71 4.7 2.2 1.93	12.9 50.9 3.0 5.8 5.8 1.9 1.43	22.5 38.2 2.3 5.6 0 5.6 4.2 2.73	.t. 12.	THE FORMAL STATES AND THE STATES AND	sgnition sitidizery sgnition voo bundr voo bundr voo principal voo farot fina voo farot fina voo farot fina soo farot fina soo farot fina soo farot fina con serot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con farot fina con	4.5 71.7 .3 1.6 1.8 1.0 1.4	8.5 63.6 1.2 3.2 3.2 1.8 3.4	14.3 46,7 1.4 4,2 4,2 3,9 7,4	11.4 46.7 .7 3.0 3.0 1.3 2.81	8,2 31,4 1,3 3,3 3,3 ,6 ,81	4.8 34.9 1.6 2.9 2.3 .3 .71	2.7 52.1 1.3 2.3 2.32 1.11	2.5 67.3 .8 1.5 1.5 .6 1.0	7.1 51.9 1.1 2.8 2.8 1.2 2.30
Continues of Act	9.1 17.5 48.8 3.4 6.8 6.8 4.3 1.53	15.9 23.4 40.8 2.8 6.51 6.5 7.5 2.85	21.2 34.2 29.0 1.6 6.8 6.8 10.4 7.25	16.2 31.2 29.1 1.0 4.6 4.6 4.2 3.5 ,4	9.3 25.8 31.4 1.6 4.5 4.5 1.5 1.92	5.9 17.4 35.0 2.0 5.2 5.2 1.6 1.43	5.6 12.6 40.3 2.7 4.71 4.7 2.2 1.93	5.8 12.9 50.9 3.0 5.8 5.8 1.9 1.43	617 .2 11.1 22.5 38.2 2.3 5.60 5.6 4.2 2.73	.e. .e.	THE FORMAL SECTIONS AND ADMINISTRATION OF THE PROPERTY OF THE	inidesty serification serifi	1.6 4.5 71.7 .3 1.0 1.8 1.0 1.4	2,7 8,5 63.6 1,2 3,2 3,2 1,8 3,4	5.9 14.3 46.7 1.4 4.2 4.2 3.8 7.4	4.1 11.4 46.7 .7 3.0 3.0 1.3 2.81	1.8 8.2 31.4 1.3 3.3 3.3 .6 .81	1,1 4,8 34,9 1,6 2,9 2,3 ,3 ,7 ,1	2.7 52.1 1.3 2.3 2.32 1.11	1.0 2.5 67.3 .8 1.5 1.5 .6 1.0	2.4 7.1 51.9 1.1 2.8 8.8 1.2 2.30
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0.0 indicates that the condition has occurred less than 0.05 percent of the time.

of the time, but more than 0.00 percent of the time.

--- indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

CARSWELL AFB, FORT WORTH, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Vision	7.0	7.01	18.9	13.9	9,	3.5	6.4	÷	8.5	uo; Jo	o securrences of the contract	13.4	15.6	9.02	30.5	14.3	15.1	9.11	11.0	14.9				
	Dust (Blowing and/or Suspended)		1 1 0 0 0 0 0 1								J.	Toka (Bloving and/or Suspended)			9.	θ,	6.		1.0	٠.	æ.			ime.	
	Mond antwold	1								į		wong gaiwold			1	1	;	i	1	1				indicates that the condition has occurred exactly 0.00 percent of the time.	
	Smoke and/or Hare	13.8 10.3 11.8 11.8 1.8 1.8							8,8	£.8		эзэн то\рла эмошё	5.7	5.6	5.5	5.5	4.0	4.7	3.8	2.7	4.4	occurred less than 0.05 percent percent of the time.			
	303	3.3	6.6	10.1	5.5	2.1	1.7	5.0	1.9	0.4		80.4	10.0	₹'टा	15.2	12.6	8.5	6.7	6.9	7.7	0.01		.05 pe) perc	
	To secontración LadoT noidediqicenT	3.8	5.0	.9 Ic	6.4	3.8	1.2	1.1	1.0	4.3		noitatiqisse?	7.4 10	टा ०.९	10.4 15	8.8 12	7.5 8	9 0.7	6.7 6	۲.	ot 6.7		han 0 time.	ly 0.00	le.
	Light	9.	-	<i>a</i>	-7		0.	-7	<i>-</i> #	0.	,,	Heil Total Occurrences or	:	6 :	9 :	9	:	-	9	•			indicates :hat the condition has occurred less than of the time, but more than 0.00 percent of the time.	exact	A blank indicates that the data are not available.
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Ü	(nollasiiqlosmi eissind nokone miss		5.0	6.4	6.4	ų	4	1.1	4	4.3	Δ.	Trecipitation)	6.9	7.8	9.1	7.8	7.0	6.5	5.9	5.9	7.1		onditi re tha	onditi	nat th
10	odiiW v. diiW) webmudC		7.5	9.	4	7	φ.	æ	1.1	7.	tuodi	ik qu doik) qobund?	7	۲,	ď	o.	٦.	٥.	1	ď	r.		the continuo	the co	ites th
	Cloud Cover 15/10	5 67.8	6.4.9	52.7	9.64	48.5	51.6	61.1	68.2	58.0		OIVE: 39VOD Buol7	56.7	55.5	45.7	38.8	41.5	41.0	9.6	55.4	0.8		hat ne, bu	that	indica
***	Alban 25 (1954 - Agentian) IM die Beitallidisty	19.3	28.4	25.3	18.1	10.0	10.1	10.5	17.1	uc/por	д 29 OCG4- eBailie∩ 199 д. şei⊁iridisiV	25.2	28.9	33.5	32.7	28.0	23.8	٥ ا	83	27.0		icates he tir	icates	lank	
Ji.	Abus F(9000; amolite0 [M.t. aoli][13]#[F)	7.6	10.4	14.2	13.9	7.8	6.4	4	5.1	6.5		M of coops againsmin IX to againtifidealV	17.4	8.	24.0	23.1	18.3	15.3	13.1	14.7	18.3			ind.	A b
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	anolikavanadii lo madmuN	2,046	2,046	2,045	2,046	2,046	9,0,46	2,042	2,045	16,362	suo	insvisado to redmin	2,046	2,044	2,044	2,043	2,043	2,043	2,045	2,046	16,354				
	flours	20-00	03-05	90-90	09-11	17	17.5	ź.	2	Adi Sours 10		Honts	20-35	33-05	80-96	09-10	2-3-	17.0	9-80	52-53	All Hours 16				
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	won's gaiwedd	1	1	-	į	-	1	1	;	ļ		Plowing June	į			į	-	1	1	1	1		Nous Bain	PTG.	°.
	Smoke and/or Here	5.t	3.2	30.5	5.8	6.1	.7	1.2	1.9	3.4		астар то/рим тамом;		5.9	e0 -	0.9	5.9	5.9	2,4	5.5	 	a.	zви 40/ри в э я	ows	3.4
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	Triestitum ion Triestitum	3.9	6.4	£.5	0.4	9.4	-	7	3.9	m		uoy paydysaaji . nacioaan jayoy	5.5	7.5	8.5 1	0.8	9.9	6.3	L	5.2	. 1.9	To the	eipitation eipitation	32d	5.8
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S	i itaili) meri	3.9	6.4	4.5	0.4	4.5	F.4	1.1	3.9	÷.3	Z ·	factualitations:	7.0		4.8	0.8	9.9	9	4.7	5.5	9.9		(molinaliq)	- [5.3
įži	offie to dried mobined?	4.	9	4.	9.	۲.	1.7	1.8	1.8	6.	trodti	(W to daiw) mabmud?	v.	-7.	4.	4	.5	4.	Cų.	ů.	۹.		ic dtiW) isbn	ndT	e,
	01/61 asver buol0 (70.7	67.2	54.4	6.64	1,2,1	6.5	61.8	70.1	57.8		OT/15 Taves broof	%	88.0	48.8	47.7	4.64	49.5		61.8	53.7		TA CHARL TALL		9.94
40	\bns 12 0004> cmillin0 \\ \chi = \chi	9.6	14.3	24.1	8.7	_	8.9	7.5	7.2	13.3	10/bm	s 14 0004+ emailing 1M 3+ anilitalialV	8	24.4	28.7	27.9	2,5	15.8		16.9	8	To bas !	4 Octobranii A. mallitidi	1-0	8.3
20	Abna "f bhhir agnille) iM f anlailidisiV	4.9	9.	13.1	11.9	£:3	·.0	3.3	3.4	6.9	To\bin	# 19 0000 × #8481140 IM E × maintidial?	F.31	15.5	19.1	16.8	11.5	9.6		9.3	12.8	my hara i	W GOOTS amail Er soldflidi	رودا	11.5
1	Cellings <200 Pt and/o	٠:	Q.	αį	į	}	7	Ġ	ď.	۲:	ao/ba in	us 24 000 saniliso N S\ls seltitidisiV	9.	1.3	1.4	₫.	αį	۲.	'n.		9.	To\brace,	j¶ OU;> manil ∖(' malititidi	SIA 190	ı.
	and terrario To medamik	1,980	1,980	1,980	1,979	1,980	1,980	1,980	1,978	15,837	suoj	Number of Observati	1,965	1,965	1,970	1,970	1,967	1,369	1,971	1,968	15,745	ano! In	set of Opserv	un ç	169,043
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CARSWELL AFB, FORT WORTH, TEXAS WIND ROSES

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CARSWELL AFB, FORT WORTH, TEXAS WIND ROSES

	Mean	Speed	995	9.1		Mean Wind Speed	99,49,49,99,99,49,49,99 99,49,49,99,99,49,49,99	6.7
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		35.			SMOI	98,1		SNOT
		18-55			TOTAL NUMBER OF CREEKVATIONS	9×5≥		IODAL NUMBIR OF OBSERVATIONS
		14-14			BER OF	FT 53		E183
		34-45	o, o	o.	OEAL MA	34-40		OLAL YU
60	faots	28-33	4.6	⁻ :	н	ST Knot.	ó ó	o.
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	6	17-21	प्रमुख्य प्राप्त वृत्त क्षा क्षा क्षा क्षा वृत्त वृत्	8.5		Sp 87-21	व्यव्यव्यव्यक्षण्यक्ष ००	2.2
		11-16	ۼۺۺڛۼڿڛڟ؈ڟ؈ٵ۬ڽڂڟۼ	9.6		11-16	4,6,0,0,4,4,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	13.0
		7-10	ن مستوحة (١٥٠٥) دمة وغد مقع و ويطونون	9. %		7-10	ن ما ساس موم با ف هاس موم وه ما دن که خود کرد	°.
		9	ݩݟݞݥݖݞݞݥݖݥݥݥݥݥݥݥݥݥ	17.9		ÿ	ݥݧݠݥݽݽݚݞݙݞݭݞݽݥݽݖ	7. 1.
		3	شنشششخونه كششننننن خ	4.42		3	મુંલ્ઇ પ્રેપ્ટે મુંલ વર્ષ છે. આ પ્રાથમિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થામિક સ્થ	2.2
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	6)	12	ૡ૽ૹ૽ઌ૽ઌ૽ઌ૽ઌ૽૽ઌ૽૽ઌ૽ઌ૽ઌ૽ઌ૽ઌ૽ <i>ઌ</i>	6.5		60 1	ناه فاده ناه نام شوه ده د	2.5
		11-16	ڟۿڛٛڛٛۿۼڎڎڎڞۺڎۿۿڟڂڂ	3.7		97	ڛ؈ڛ٦ ڿڛؙۺڛؗڎۼ؈ۻۻٷڞۻۏۻۻ	16.9
		P	स्टब्रुल्य क्षेत्र क्षेत्र क्षेत्र क्षेत्र वर्तन सम्बद्धाः	25.5		2		37.6
		9	ىل مالايون ئادۇ ۋېدا ئاد ئادۇن ئادى ئادۇر	19.1		1	ရက်ဝစ်တွင်းဆွယ်သို့သို့ ကို ကို	83
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CARSWELL AFB, FORT WORTH, TEXAS WIND ROSES

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OCTOBER	Speed in Knots	22-27 28-33	जांचंत्रं ठाठांबांच्यं वंबंद्यं	7:	DECEMBER	Speed in Knote	55-51	နေ့လက် စိတ်တိတ်တိတ်တိတ်		1.9	
0	6	17-21	**************************************	4	ä	S.	17-51	وغيده ونيشوشهمنغهن		9.9	
		11-16	ရုရ ဝင်လဲအယ်ယ်ကို လိုက်စားက်ရရှိချိတ်ခဲ့	16.5			91-11	سات في شام المن المن المن المن المن المن المن ال		19.7	
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		9-,-	4 4 44 88 44 4 VFO 6 6 6 48 48 48 44 44 44	9.0			9-1			19.1	
		6-3		27.5			ã	مو مة بن ما ع سامة ب من عامة عامة عامة عامة عامة عامة عامة عامة	6.5	1.13	
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	Mean	Speed	@@\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6.8		5 T	Rpeed	33999999939999399933 82488669862986		8.3	4
		Total	04444000000000000000000000000000000000	000	1587		Total	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	15.5	0.001	15741
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PTE!	Speed in Knots	22-27	न्त् ९०० न्यान्त् ९०नन्	۲.	NOVEMBER	Speed in Knots	22-27			2.5	
S	20	12-21	فاختر فرخن فاختر فرفت فاختر فا	3.1	Z	uc	17-21	وأيثية والإطاق المراقية أما		7:0	
		11-16	س شونونم شمه بده خاص هر شرخاخ شره	14.5			91-11	در وغيرننونغ هي ويشويغ غينو		80.5	
		7-10	agagagagagaga aodawaaaaaauomomia	33.0			1-10	844		28.0	
		9-1	٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩٩	23.5			9	008-00-4-00-5-5-5-4-4		18.7	
		-0		25.2			5-3	الأشخ شكي شورة وأيت يترفي والمرفع	15.5	23.1	
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DYESS AFB ABILENE, TEXAS (Lat. 32°26'N, Long. 99°51'W, Elev. 1777 ft.)

Dyess AFB is located five miles west of Abilene in the extreme western part of central Texas in an area known as the Lower Plains. The surface is rolling, although large flat areas occur in some places. Elevations decrease gradually to the east and southeast to the Gulf of Mexico, a distance of 350 miles. A low range of hills extends from the southeast through west to northwest with elevations ranging between 2,000 and 3,000 feet.

Dyess lies roughly on the boundary between the humid climate of east
Texas and semiarid climate to the west and north. Southerly and southeasterly circulation brings moisture upslope to the Lower Plains which
results in occasional nighttime stratus or fog at any time of the year,
with the maximum occurring during January and February. From November
through April frontal activity is quite active with cold dry polar air
replacing the warm moist tropical air. With an easterly flow low ceilings
and visibilities may last several days, and with temperatures near freezing
serious icing will occur. The strongest winds are from a northerly direction and result from the passage of cold fronts. Blowing dust occurs
most often with these fronts, however sudden convective wind gusts from
thunderstorms may bring about short periods of severe blowing dust. Flight
restrictions caused by blowing dust are usually of short duration.

Thunderstorms do occur in all months of the year with most of them being confined to the spring and summer months. During the spring most

DYESS AFB (Cont'd)

thunderstorms are of the squall line type, while in the summer months they are more likely to be of the isolated or air mass type. Damaging hail at the surface is infrequent, however chances of hail and severe turbulence aloft are great, even up to altitudes of 45,000 feet.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from December 1943-December 1945 and August 1946-March 1965; with the exception of cloud cover for which data are not available prior to 1946.

DYESS AFB ABILENE, TEXAS

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Те	mperat	Temperature $(^{\circ}F)$	F)					•	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	55.7	60.1	6.79	7.48 4.77 6.79	7.48	92.0	6.46	95.4	88.0	78.7	65.4	57.9	9.92
Mean	44.2	44.2 48.7 55.5 65.2 73.4	55.5	65.2	73.4		84.2	81.1 84.2 84.2 76.9 67.3 54.1	6.92	67.3	54.1	1.94	65.2
Minimum	32.2	36.9		52.6	61.7	2.69	72.9	42.7 52.6 61.7 69.7 72.9 72.6	65.3	55.5	42.3	35.1	53.4
			阵	ecord	Temper	ature	Record Temperature Extremes	ន					
Maximum	88	89	92	66	108	901	107 108	108	901	100	92	68	
Minimum	6	H	о В	29 er iod	38 of Rec	29 38 50 Period of Record:	57 1943-1964	53 .964	24	32	16	10	
MONTHLY MEANS				Preci	pitati	Precipitation (Inches)	(ches)						
Precipitation	7 6.	.93	8.	2.35	4.12	2.35 4.12 2.55	2.66	2.66 1.87	1.93	2.23	1.01	1.01	22.48
Snowfall* 1.6 1.5 (*Hail was included in Snowfall Summary prior to January 1956)	1.6 1.5 uded in Snowfall to January 1956)	1.5 Snowfa ry 195	•	T eriod	.5 T T T Period of Record:		T Precip Snowfa	T .0 T T Precipitation 1943-1.964 Snowfall 1946-1964	л 194 194	T 3-1.964 5-1.964	ų.	9.	4.3

N 42 S NE WSW WSW WNW N NNW 48 43 54 33 58 Period of Record: 1957-1964 **z** R £ ₹ Wind Direction Velocity

Surface Winds (Knots) - Record Peak Gusts

WINW 43

WNW 42

Maximum and/or Minimum Anemometer Height: 25 feet 04/56; 13 feet 04/62

DYESS AFB, ABILENE, TEXAS Percentage Frequencies of Occurrence of Specified Weather Conditions

u	to senderuncial interference of siv of enoithers of siv of enoithers of the six of the s	9.6	10.8	13.5	13.1	10.5	0.6	6.6	9.6	9.01	Total Occurrences of Obstructions to Vision	3.0	3.7	5.1	4.5	4.1	6.4	3.5	ä.	0.4
	Telbine BrivoiE) fauG (bebriegau2)	9'1	4.1	1.7	5.1		3.0	63	1.9	6.5	Tolbing Sales (Blowing and/or Suspended)	1.4	7.	1.6	1.6	2:1	3.6	5.7	5.2	2,2
	Monda Sarved S	ç4	e,	÷	m	ė	Cą.	cş.	cri	e _i	wone galvoid	}	:	-	1	ŀ	į	1	į	[
	Sash To\bns walcad	7	-:	οį	cų.	ci.	۲.	-#.	ŗ	ci	Samble and/or Base	:		-!	· -:	d	· ·	-:		
	3 0.31	6.9	3.2	11.3	9.01	9.7	5.B	7.1	7.4	6.2	30g	1.4	. 3	5.5	2.8	4.1	Ď	ao.	ė.	1.3
	me:battgteaff	9.3 6	10.5	n 5'm	01.9 30			8.6 7	9.4 7	9.6	Precipiteton	0		6.0	6.9	1.6	6.4	4.5	6.4	1.9
	ital To securrences of		CI.	:	S .	د ا	٠. د	2	.1	0.	Total Occurrences of		-	1	 -:	٠ <u>.</u>	7		-	•
_	feetS molbas wons	2.1	2.3	, .	80	2.1	2.1	2.1	1.5	2.5	Suca mod/or Sleet	;	;	:	:	.1	:	;	;	o.
FEBRUARY	Freezing Baizserf			ci c	1.6 2.	8.	2.0.1	9.	1.0 1	ru	,	-	i ci	į.	; -:	;	1	-	i N	7
EBRI	SizzirG To\bns nls8 To\bns nis8 Snizserf	3 1.0	5.0	3 2.0						ri .	elssirG to\bna minfl A					•				6.4
iz.	Precipitation of the state of t	6.3	6.1	5.	7.0	6,1	5.	5.5	7.0	6.4	Precipitation)	9*1	4.5	5.9	6.4	4.5	6.4	4.5		
200	Thursday (With or Witne	ه ا	ŗ.	ŗ.	7.	τ.	O.	e.	1.0	₹.	Sportsky to hatky yeardT	2.0	1,6	œ.	9.	Θ.	1.9	2.5	2.1	1.5
	Cloud Cover 53/10	51.9	6.64	444.3	10,6	LO.3	38.5	44.0	8.	.5.0	Cloud Cover 13/10	53.6	8.9	41.0	40.1	40.3	11.0	46.2	54.1	45.9
40,	Ceilings <4000 Ft and/	6.4	24.4	27.4	23.52	25.5	25.0	8	19,5	23.7	Cetilings <+600 Pt and/or Visibilities <6 M'	14.6	18.5	25.3	22.0	19.7	15.3	11.2	12.0	17.4
AO,	Ceilings <2000 Ft and/ Visibilitites <3 Mi	16.5	19.3	55.0	24.5	18.4	14.2	13.1	14.2	17.71	Tolbam #T 0000> egailie0 IM E> seibilidie1V	6.5	11.9	16.4	14.4	9.5	6.3	6.1	6.7	9.6
10	Ceilings <200 Ft and/c Visibilities <1/2 Mi	1.6	ci ci	2.4	1.9	1.0	7:	1:2	1.6	1.6	Toling of 2000 egailie)	4.	9.	.7	۲.	i	۲,	į	۲.	ú
	enoitevised()o yedmuK	1,781	1,782	1,781	1,781	1,782	1,782	1,782	1,780	14,251	suchitevation от праветия	1,725	1,726	1,722	1,728	1,728	1,727	1,726	1,727	13,609
	go.re.a	00-05	03-05	90-90	11-60	12-21	15-17	18-20	21-53	ALI Hours 1	smo	20~00	69-60	90-90	09-11	15-14	15-17	02-81	21-23	All Hours
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	Total Occurrences of Obstructions to Vision	b.6	6.5	7.6	7.0	5.7	5.4	5.3	4.8	5.9	Screening Cocurrences of Selection Cocurrences of Selections Cocurrenc	4.5	5.7	9.5	8.9	7.0	7.5	7.7	4.6	6.9
	Dust (Blowing and/or Suspended)	, ci	ì	e4	-₹,	θ.	1.4	1.1	٩	9.	Tothing and to The Proving and to Tespended)	.3	1.6	4:	5.6	3.9	4.9	5.5	3.1	e.
	Mond Balwolf	-₹.	Ē,	ci.	ė	ė.	s	7	Ŀ.	ď	Blowing Snow		7.	į	;	1	ļ	į	1	ċ.
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	204	2	6.3	7.2	6.4	9.4	3.7	4.0	3.9	5.0	F06	2.4	4.0	4.9	5.7	2.9	2.4	2,1	1.5	3.4
	To securrences of Precipitation		8.1	0.1	3.0	1.0	7.1	6.2	7.4	3.6	To secretarioso Lares noisasigisers	3.6	5.2	6.3	5	4.4	3.1	3,4	3.3	2.5
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> :	feel2 To\bine wons	2.5	2.4	2.8	4.5	3.6	2.4	3.6	5.0	2.3	Snow and/or Sleet	ż	٦,	1.2	1.3	7	۲.	9,	٠.	æ
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JA	efizitt to\bas alas	s 3	0.4	5.4	3.8	3.5	3.5	5.3	3.6	3.5	Piezzie molon niasi	2.7	4.6	4.7	4.2	3.0	2.5	5.6	2.5	3.3
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	GIVES SEVED	o "	53.6	13.7	17.2	1,04	43,2	17.3	55.4	h7.0	Cloud Cover 23/10	55.1	53.3	43.9	10.7	9.0	36.1	1,3.0	53.2	1,6.0
	o\bas #9 3004> sailite fM d> seitilidisi									19.3	To\bas #0000 Pt and/or IN 3> selfillisiv	15.2	17.3	22.5	23.1	19.7	17.4	16.2	14.0	10.2
	olbings <2005 Ft and/c	، ا	, 4							14.2	Ceilings <2000 Pt and/or Visibilities <3 Mi	10.1					9.5	7.7	6.9	10.7
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	om.s	- 1	70-00							A11 Hour# 15	нопъя	00-05				12-14	15-17	18-20	21-23	A11 Hours 1
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.
... indicates that the condition has occurred exactly 0.00 percent of the time.
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DYESS AFB, ABILENE, TEXAS Percentage Frequencies of Occurrence of Specified Weather Conditions

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01/82 meves buoth	0.43	59.8	52.7	54.3	52.7	53.3	55.7	61.2	56.7	Olote 23/10	75.3	75.8	59.9	59.5	45.5	9.9	8.3	73.2	7
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Percentage Frequencies of Occurrence of Specified Weather Conditions

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DYESS AFB, ABILENE, TEXAS WIND ROSES

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DYESS AFB, ABILENE, TEXAS WIND ROSES

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DYESS AFB, ABILENE, TEXAS WIND ROSES

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		9		21.8				37		23.4
		7		3.9 2				9	שמו יומקקט יועיני יוסילריטימממטטרטמטלטט	89.3
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ELLINGTON AFB, HOUSTON, TEXAS (Lat. 29°37'N, Long. 95°10'W,, Elev. 39 ft.)

Ellington AFB is situated eight miles west of Galveston Bay and 32 miles northwest of the Gulf of Mexico, in the flat coastal plain. Low stratus and fog cause most of the adverse weather conditions. Fog or stratus can be expected during any month of the year with high dewpoints and low level winds from the southeast. The greatest frequency occurs during December and January. Ceilings and visibilities generally improve several hours after sunrise.

Fronts are most active from November through March. Freezing rain or snow are insignificant as most freezing temperatures last only a few hours.

Thunderstorms occur in all months of the year with the maximum frequency occurring in July and August, but the strongest winds are associated with squall lines occurring in May and June. Hurricanes may affect this area from June through October with the maximum frequency in August.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from July 1941-February 1946 and January 1950-December 1964; with the exception of cloud cover for which data are not available prior to 1946.

ELLINGTON AFB HOUSTON, TEXAS

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Ţ	Temperature $({}^{\circ}F)$	o) ern	F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	63.0	66.2	71.4	77.5	4.48	89.8	92.1	92.3	88.0	81.6	71.0	4.49	78.4
Mean	53.7	57.3	62.2	69.1	75.8	81.5	83.7	83.7	79.5	71.5	61.1	54.9	4.69
Minimum	44.1	48.0		52.6 60.3	6.99	66.9 72.8	75.0	75.0 74.7	7.07	61.1	50.8	45.0	60.1
			ŭ	Record	Temperature	ature]	Extremes	Ω 0					
Maximum	82	87	88	93	95	66	104	103	101	96	68	1 8	
Minimum	16	15	22 P	39 eriod	39 46 58 Period of Record:		68 65 46 1941-1946, 1950-1964	65 946, 19	46 950-19	37	24	17	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	3.00	3.93	2.47	3.47	3.76	4.30	2.47 3.47 3.76 4.30 4.45 4.50 4.72 3.59	4.50	4.72	3.59	3.72	4.09	45.98
Snowfall* .1 .3 (*Hail was included in Snowfall Summary prior to January 1956)	.1 .3 uded in Snowfall to January 1956)	.3 Snowfa. ry 1956	Ģ	Teriod) I I I Period of Record:		.0 Precipitation Snowfall	.0 itatio		.0 1-1946 5, 195	.0 .0 .0 1941-1946, 1950-1964 1946, 1950-1964	.0.	†
		Su	Surface Winds (Knots) - Record Peak Gusts	Winds	(Knots) - Re	cord Pe	eak Gu	នុះខ				
Wind Direction Velocity	wnw 60	N 56	wnw 52 Pe	WNW 45 eriod	WNW WNW N 45 65 60 Period of Record:		ESE NNW 36 52 1953-1963	NNW 52 963	NINE 36	N 52	N 43	ESE 42	

ELLINGTON AFB, HOUSTON, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

	To secretary occupants of a solution of secretary of secretary second of secretary second occupants of second occupants of second occupants of second occupants occupa	35.3	36.2	8.5	23.5	17.4	17.1	25,3	28.3	89.8	Total Occurrences of Colerations to Vision	8.8	34.2	1.14	17.0	10.2	11.4	16.3	19.6	22.1
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	sight to bin shows	1.41	14.1	17.7	16.5	10.0	10.3	13.2	14.4	13.8	esed Tolbine emons	6.6	11.0	17.1	11.5	7.4	7.8	10.2	9.6	9.01
	204	99.98	30.5	92.9	17.1	6:3	9.7	0.00	17.4	0.0	903	1.61	8.93	29.1	5.1	2,5	3.1	6.9	11.5	13.1
	to secretimoso issof acitaliqicerf	3.8	10.3	13.6	10.8	17.6	12.3	9,8	4.6	30.6	lo sentrancoù ision noissitgiosa	9.9	7.8	1.7	6.6	6.9	5.4	5.5	5.7	6.4
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ARY	Snow and/or Siect	ú	۲.	a,	ç.	ė	ú	œ.	ď	οñ	seets so/pue wous		Ì	1	;	į	!	1	i	1
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F	Sein and/or Drizzie	9.6	9.01	13.5	10.6	30.3	15.1	9.6	3.5	9.01	Stania dro'or brizzie	9.9	7.8	7.7	6.6	6.5	5.4	5.5	5.7	6.4
56	odsiw to daiW) mebaudT (noisesigloetF	2.	ė.	÷	₫.	ú		ij	- ₹.	ċ	Thunder (With or Without Precipitation)	1.5	1.3	1.0	1.4	è	٠	1.6	1.6	1.3
	Cloud Cover 13/12	36.7	36.0	39.6	28.8	37.6	33.3	37.0	9.0	33.3	SI/E2 Hewo? buol0	35.9	й Э	52.6	6.05	8.5	27.5	35.2	36.8	29.5
40	Abna 49 USO4> agailteS M 8- asiailtelaiv	50.9	55.4	57.8	4.64	47.2	90.5	39.1	44.0	1,8,0	rollings <pre></pre>	1.6.3	3,9,6	8.	52.3	5.74	39.5	33.6	39.5	4.74
45	M SAE- maidilidielV Them 19 0000> emailie0 TM S> maidilidielV	35.8	39.6	42.2	34,3	27.0	23.8	26.2	31.2	32.5	mothes of 9000> manities IM En secretifieth	36.9	39.6	€.0	26.0	17.2	16.8	21.7	8	28.6
A.	c/pus 14 003, swuffiso	7.2	8.8	4.8	2.4	9.	ċ	Ċ	.5	9.4	Cellings <200 Ft and/or Valbilities <1/3 Mi	3.4	4.9	2.8	-₹		ł	ŗ.	1.5	1.7
	Sumber of Coservations	1,635	1,635	1,635	1,635	1,635	1,635	1,635	1,635	13,080	Number of Chaerwasions	601,1	1,710	1,710	1,710	1,709	1,710	1,710	1,710	13,678
	sumo;;	00-05	03-05	90-90	09-11	12-19	15-17	19-50	21-43	Ad 1 Hours	ಜ್ಞಾರಿ	20-00	03-02	90-90	09-11	12-14	15-17	18-20	21-23	All Fours
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	n, tradigional elasinG robban nies situbis nies gaisment situbis nies gaisment sesis robban wond ties ties netaniquomi netaniquomi	0 4 6.6 .2 9.0 23.5	4 10.9 .3 .1 11.3	A. 11.8 .3 33.h	.2 11.2 .2 .1 11.4 30.3	5 11.1 4.11 1. 2. 1.11 5.	7 10.0 4.01 t. 4. 0.01 Y.	.5 5.2 .4 .1 6.7 12.3	5 .7 9.2 .4 .1 3.6 18.4	3 .5 10.1 .3 .1 10.5 19.7	A A A Solution and activity of the cold of the cold activity of the cold	.8 6.4 6.4 21.1	.4 9.3 27.1	.4 8.51 8.5 32.2	.3 6.8 6.8 9.8 14.	.6 6.6 th 6.6 th.k	.7 5.5 5.5 н.6	.4 5.0 5.0 7.2	9.9 6.6	.2 .5 6.9 6.9 15.
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and	THE SECTION OF THE SE	.1 46.7 39.0 .4 8.8 .2 9.0 23.5	.1 51.7 34.3 .4 10.9 .3 .1 11.3	2 56.4 27.0 .4 11.8 .3 12.2 33.4	46.0 20.0 .2 11.2 .2 .1 11.4 20.3	44,7 23.3 .5 11.1 .2 .1 11.4 11.1	36.0 26.2 .7 10.0 .4 .1 10.4 10.5	36.0 32.3 .5 31.2 .4 .1 8.7 12.3	.0 46.6 36.5 .7 3.2 .4 .1 3.6 18.4	45.3 30.3 .5 10.1 .3 .1 10.5 19.7	MARGO FE AMON TELESTORY Total Section 1970 Total Section 197 Total	3 47.6 37.6 .8 6.4 6.4 21.1	.2 51.6 34.8 .4 9.3 9.3 27.1	55.8 28.2 .4 8.51 3.5 32.2	47.6 26.0 .3 6.8 6.8 9.8 14.	41.7 27.7 .6 6.61 6.6 4.4	34.7 29.4 .7 5.5 5.5 5.5	6 34.5 34.2 .4 5.0 5.0 7.2	3 39.9 39.8 .8 6.6 6.6	.2 Wh.2 32.2 ,5 6.90 6,9 15,
an: ac,	W ?> MESTALIZIENT W PARTALIZIENT W P	39.0 .4 8.8 .2 9.0 23.5	34.3 .4 10.9 .3 .1 11.3	39.2 56.4 27.0 4 11.8 ,3 12.2 33.4	20,0 .2 11.2 .2 .1 11.4 20.3	23.3 .5 11.1 .2 .1 11.4 11.1	26.2 .7 10.0 .4 .1 10.4 10.5	32.3 .5 3.2 .4 .1 8.7 12.3	40.6 36.5 .7 3.2 .4 .1 3.6 18.4	3 30.3 .5 10.1 .3 .1 16.5 19.7	AAACO PT 24:00 MARGO PT 24:00 Tander (912. C. Victoric Prizzic Tander (37.6 .8 6.4 6.4 21.1	6 34.8 .4 9.3 9.3 27.1	36.8 55.8 26.2 .4 6.51 3.5 32.2	26.0 .3 6.8 6.8 9.8 14.	27.7 .6 6.6 1 6.6 4.4	89.4 .7 5.5 5.5 5.5 4.6	34.5 34.2 .4 5.0 5.0 7.2	9 39.8 .8 6.6 6.5	29.2 44.2 32.2 ,5 6.9 0 6.9 15.
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

^{...} indicates that the condition has occurred exactly 0.00 percent of the time.
A blank indicates that the data are not available.

ELLINGTON AFB, HOUSTON, TEXAS Percentage Frequencies of Occurrence of Specified Weather Conditions

	To assurrences of noisiv of anoltourredO	15.4	23.7	28.7	9,4	5.3	3.9	5.3	6.9	11.9	u	To securrences of oisiv of anotheurisch	12.5	24.2	36.5	10.1	-2		. 4	, ,	<u>.</u>	13.1
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	Smoke and/or Haze	10.0	13.7	19.0	0.0	4.9	3.3	5.5	9.9	e.9		moke and/or Haze	9	6,51		9	: :	7	n i	a v	Q'.	10.4
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	smoidmwreedO lo reduni	3%			. 767	167	. 92	1267	1.767	14,133		sucilervations	om i Ni	1,791	1,812	1,860	1,856	1,859	1,96c	1,926	1,791	12,657
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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.
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A blank indicates that the data are not available.

ELLINGTON AFB, HOUSTON, TEXAS

Percentage Frequencies of Occurrence of Specified Weather Conditions

,	Total Occurrences of Obstructions to Vision	25.2	35.9	51.1	18.1	6.8	ъ. Э	5.5	13.4	9.0	Total Occurrences of Obstructions to Vision	32.7	37.9	46.5	35.5	29.7	19.5	19.9	28.1	٠. بع	
	Duat (Blowing and/or Suspended)	1		:	.1	ç	}		į	e,	Dust (Blowing and/or Suspended)	٤.	e:	C4	٤.	ĸ.	ú	Ŋ	ú	ú	
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	ereff Tolbhe salome	13.6	21.3	č.¥.	9.91	6.3	7° '1	6.7	9.3	14.0	essell rollbras emona?	15.3	16.3	25.7	6,08	12.9	11.7	11.9	13.8	15.7	
	≱o _d :	14.0	23.5	34.5	3.6	٠:	ċ	1.1	7.1	10.6	804	53.9	3.4	1.4	19.9	10.9	10.1	11.6	19.8	89.0	
	To secentrace LateT. neitatigicari	2.4	r: m	3.8	3.5	3.	3.7	3.0	63	3.3	To cestrement of Treely States	9.7	5.4	9'11	10.3	10.0	9.5	9.0	9.1	5.4	
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остовек	Freezing Rain and/or Freezing Drizzie	i	1	į		-	;	ļ		:	M rechas ming gaireers M elsziru gaireers W	i	1	1	;	į	į	į	7.	ė.	
ŏ	Rain and/or Drizzle	4.5	3,5	3.8	3.5	ı, 8	3.7	3.0	5.5	3.3	Hain and/or Drizzie	9.1	5.6	9.11	10.3	10.0	9.5	8.0	9.0	9.7	
וחב	Thunder (With or Withdreet)	-7	۲-	89		1.0	1.1	1.1	0.1	6.	Thundar (With or Without Thundar (With or Without	r.	ı.	۲.		\$:	ŗ.	£,	۲.	₹.	
	CIVES TOVOS busin	9,99	63.5	51.9	44.3	41.5	49.5	60,1	9'19	55.6	Cioud Cover 13/10	1,2,1	10.0	33.5	30.2	30.0	9.62	38.4	45.0	35.8	
20.	Ceilings <4000 Ft and/ Visibilities & Mi	25,2	38.1	53.9	34.1	24.6	13.4	11.1	16.1	27.1	no/bns #7 0004 saniiiso # 3 seisiiidistv	6.44	9.64	57.1	4.64	41.0	34.2	32.3	38.9	43.4	
40,	Ceilings <2000 Pr and/ Visitilities <3 Mi	11.9	19.5	₩.	11.7	5.4	3.8	3.7	6.0	11.5	rc/bms of 0000> equilied im E> weinilidie:V	8.5	34.0	£0.3	32.0	24.5	8,0	89.3	25.4	28.4	
ã:	Veillings \SSC Ft and\d Visibilities <1/2 Mg	2.9	4.8	5.3	.⇒.	i	Τ.	۲.	9.	1.8	re/lang <800 Pt and/or Visibilities <1/2 Mi	7.8	9.3	10.2	4.5	9.	6.	2.3	5.9	9.3	
	Rumber of Observations	1,854	1,854	1,853	1,856	1,057	1,857	1,057	1,856	14,844	cattravaned0 to redmix	1,860	1,858	1,860	1,060	1,859	1,860	1,060	1,060	14,877	
	s mon	20-00	9-02	90-90	09-11	12-21	15-17	18-20	21-73	All Hours	s ಸಾ ಂಕ್ಷ .	20-00	03-05	90-96	09-11	12-17	15-17	18-20	21-23	All Fours	
		I									1										
1	Total Occurrences of	14.7	30.2	1,8,3	16.3	5.3	4,3	5.1	7.5	16.5	to secontrol fator	86.5	32,0	42.6	55.6	10.9	11.6	14.3	83.2	52.6	
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	ezeH wolde exide	1.11	22.0	36.0	14.5	9,4	3,4	4.4	6,4	12.8	szaH To\bna szon2	14.3	16.6	25.3	16.8	9.6	9.6	10.4	12.	वं	
	Bod	6.5	16.9	8,6	3.7	1.1	1.1	ç	1.6	7.7	୫୦.୬	18.7	23.3	89.3	3.2	2.9	3.4	5.5	11.9	6.91	
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an	udził au Ariłi mebnudz Inciaedigioens		1.3	ė	-	3.3	2.2		₫.	1.4	redit no dotW) rebando		₹.		-4.			9.	9.	è.	
	Olifi Teves buol0	67.4	63.5	8.1	32.4	86.3	36.0	49.3	64.0	9. 34	Oloud Cover £3/10	16.9	45.7	38.1	33.3	31.2	34.3	1,3.5	46.0	3.04	
ăt.	/pus of 2004> egallie0 \bns of 2004> egallie0	13.7	33.3	51.0	10.1	32.5	15.0	9.6	1.8	16.4	- noliting < 4,000 % and/or TM 3> selititinity	36.6	1,2,6	51.4	40.3	36.4	8.0	24.6	31.3	36.3	
20	Ceilings <2000 Ft and/	7.4	14.1	27.0	13.0	7.8	4.8	4.	Ψ.	10.5	Visibilities <1/2 Mi Gelilags <2000 Pt and/ur Visibilities <3 Mi	22.9	25.9	31.4	8.5	13.5	12.4	14.6	17.71	19.9	
1	Visibilities <1/2 Mi	.#.	1.1	1.8	۲.	į	Ġ	7.	7.	ċ	to\bne ff 00S> sgnifieD iM S\fr = elititidisiV	4.5	7.6	9.9	æ	i	:	ē	1.5	2.8	
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	Mummber of Observations	45,1	1,791	1,793	1,795	1,799	1,799	1,799	1,795	14,365		1,300	1,800	1,799	1,799	1,800	1,799	1,600	1,800	14,397	
		00-02 1,794	03-05 1,791	06-08 1,793	09-11 1,795	12-14 1,799	15-17 1,799	18-20 1,799	21-23 1,79	All Howns 14,36	sanoy	00-02	03-05 1,8	06-08 1,75	09-11 1,79	12-14 1,80	15-17 1,79	18-20 1,800	21-23 1,800	All Hours 14,3	

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Ceilings <200 Ft and/or Visibilities <2000 Ft and/or Visibilities <3 Mi

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^{...} indicates that the condition has occurred exactly 0.00 percent of the time. 0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time. A blank indicates that the data are not available.

ELLINGTON AFB, HOUSTON, TEXAS WIND ROSES

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		34-40			OTAL NU			34-40	o,	٥.	TOTAL NU
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Ī		17-23	મુંગ ભુગ પુરાય છે. ત્રુપાલ પુરાય માટે કર્યા છે. ત્રુપાલ પુરાય માટે કર્યા મા	4.4				3	خغشة غغيث شوك شططة بقيش	5.8	
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ELLINGTON AFB, HOUSTON, TEXAS

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ELLINGTON AFB, HOUSTON, TEXAS WIND ROSES

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		97-77	. प्राप्तम् च मृष्टि प्रकारम् च	12.6				11-16	લાલામાં પાલ આંત્રુપામાં લાલ આંત્રુપામાં અંતુ લાલ	8		
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	9-1	1.8	1.4	1.7	1.0	1.6	1.6	5.5	5.5	3.1	4	1.1	ø,	5.0	ŗ.	1.1	7.7			₹.	
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	Dir.	×	ME	12	SNS	ы	ESE	SE	SSE	s	SSW		NS.	>	75.54	MA	AND:	VARBL	CALM	10:	

KELLY AFB SAN ANTONIO, TEXAS (Lat. 29°23'N, Long. 98°35'W, Elev. 700 ft.)

Kelly AFB is located just southwest of the city of San Antonio. Northwest of the airfield the terrain slopes upward to the Edwards Plateau and to the southeast it slopes downward to the Gulf Coastal Plain. As the airfield is on the edge of the Gulf Coastal Plain this results in a modified subtropical climate, predominately continental during the winter months and maritime during the summer months. The Gulf of Mexico is 120 miles to the southeast.

Predominant southerly and southeasterly winds bring moisture upslope to the Coastal Plains of Texas. This circulation when present, almost always results in night and early morning stratus formation at any time of the year. During the winter months, December through February the nighttime stratus may change to fog by early morning; however, these conditions will usually dissipate before noon with clear skies prevailing a high percentage of the time in the afternoon. An invasion of artic air will produce low ceilings, freezing rain and occasional snow. Frontal activity is most frequent from November through April. Throughout the year, when surface winds are greater than 30 miles per hour, blowing dust may restrict visibility.

Thunderstorms and heavy rains have occurred in all months of the year. Hail of damaging intensity seldom occurs, but light hail is frequent with springtime thunderstorms.

Tropical storms affect this area from June through October, with the maximum frequency occurring in August.

KELLY AFB (Cont'd.)

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from July 1937-February 1967; with the exception of cloud cover for which data are not available prior to 1946.

KELLY AFB SAN ANTONIO, TEXAS

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				H.	Temperature (nre (F)						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Maximum	62.4	9.99	73.5	80.6	87.0	92.8	95.8	96.2	7.06	83.0	70.9	6,49	80.3
Mean	51.8	26.0	62.2	70.07	77.0	82.8	85.2	85.3	80.1	71.8	0.09	54.1	2.69
Minimum	41.0	45.2	50.6	59.3	66.7	72.7	50.6 59.3 66.7 72.7 74.5 74.2	74.2	4.69	60.5	59.0	43.1	58.8
			æ	ecord	Temper	ature	Record Temperature Extremes	8					
Maximum	87	%	100	101	102	105	108	106	104	100	93	68	
Minimum	<i>‡</i>	0/	23 P	32 eriod	32 46 57 Period of Record:		62 59 1937-1965	59 965	14	37	ส	17	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	1.22	1.97	1.36	2.4	2.96		2.44 1.61	2.23	3.65	2.98	1.67	1.32	25.85
Snowfell* .2 .1 (*Hail was included in Snowfell Summary prior to January 1956)	.uded in Snowfall to January 1956)	.1 Snowfa ry 195	EH	T eriod	T T .O		.0 .0 Precipitation Snowfall	.0 itatio		.0 1939-1965 1946-196 5	E	EH	.
		Su	rface	Winds	(Knots) - Re	Surface Winds (Knots) - Record Peak Gusts	eak Gu	sts				
Wind Direction Velocity	N 55	NW 449	NW 55	NW 57 eriod	NW ESE NNW 57 52 65 Period of Record:	NNW 65 ord:	ENE 49 1947-1	ENE NW NNW NN 49 70 50 52 1947-1962, 1964-1965	NNW 50 964-19	MNW 52 65	NINW 59	89 89	

Maximum and/or Minimum Anemometer Height: 117 feet 12/42; 13 feet 01/59

Percentage Frequencies of Occurrence of Specified Weather Conditions

		Total Occurrences of Obstructions to Vision	14.6	17.9	28.4	25.1	15.9	9.6	9.8	10.2	16.1	t	To avairmoso Lator. Obstructions to Vision	8.3	14.6	27.7	14.2	6.8	5.4	5.0	4.3	10.8
		Dust (Blowing and/or Suspended)	₫.	8.	6.	1.3	6.	1.1	1.2	9.	ġ.		ro\bna gaivold) fend (bebneqeud	ø,	1.2	7:7	1.3	1.2	7:	1.3	ø,	1,2
		wond gaiwold	1	1	-	i	i	1	1	}			Mone Sarlwold	1	1	;	-	-	}	1	-	
		Smoke and/or Haze	÷	ņ	3.0	4.	1.8	1.2	4.1	9.	1.6		Smoke and/or Haze	ò	o.	9:	3.5	0.5	5:		9	1.8
		Pog	13.9	6.91	54.9	6.61	10.3	4.7	7.3	9.8	13.7		304	6.8	12.7	7.33	5.7	3.6	5.6	2.7	3.0	7.9
		To sentration (atol) Precipitation	14.1	15.7	15.7 2	13.8	1 9.0	7.8	6.9	10.1	12.1		To amportance of Treciples of T	a.6	9.7	8.8	4.7	9.4	4.3	. a	6.1	6.8
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		Cloud Cover 13/10	40.3	36.5	31.0	30.1	33.3	94.6	39.1	1.5.1	36.3		OT/ET wasou protu	32.0	55.6	13.1	23.6	28.2	6.62	35.5	38.6	0.
	Je.	/Lon 14 CCO4> Panilia) (M 4> seifilidialV	क राहिक	16.2 3	51.9 3	47.3 3	39.6	90.1 3	3,6.93	32 6	0.04	JO.	tM de aminifidativ	1,6	- 15	61	53.	39.1	25.1	19.1	7.3	41.9
	40	Cellings <7007 Pt and/ Visibilities <3 Mi	34.1 4	39.0	41.1	36.5	24.4	17.0	15.5	23.6 3	28.9	ut e	Visibilities <7 Mi	1 0.04	47.1	0.64	35.1	13.6	7.0	9.6	17.	87.8
Communica	1	Ceilings <200 Ft and/c	3.6	6.1	7.3	2.9	٠.	oi.	9.	1.3	8,8	1	Octobra 19 2022 Pagitted IM S\ts seitlifdisiv	ų,	1.3	7.7	٦:	1	7.	ú	ę:	ż
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5		нольз	'8 30-00	03-05 2,	8	g	12-11 2,	15-17 2,	18-30 2,	23-23	AC1 Hours 20,		нопъв	20-05	3-65	26-0E 2	09-11 2,	12-14 2	25-17 2	28-20 2		AU. Hours 20
Carino			8	63	8	-60	est est	15	18	er.	검용			8	3	90	50	21	.53	91	8	48
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1		Mone Sniwolf	;	1	ì	ł	1	1	1	ł	ì		word Aniwoff		;	1	1	1	1	}	;	į
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5		жод	13.2	17.3	23.3	8.	9.01	7.4	4.	3.5	13.6		Же _л	6.0	13.5	4.3	13.6	9.1	3.0	5.6	3.5	6.3
		To secrement of fator Trecipitation	7.11	14.0	14.8	11.6	5.5	7.7	0.0	9.6	6.00		Total Horarranos of Notabitation	7.2	3.3	e:	5.6	و٠٠	а. С	0.4	5.1	4.5
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	JANUARY	Freezing Raizser's	٠,	ιō	'n	3:	. 7	cq.	ę.	₫.	·.	ARCH	Toward Residue Processes and south	ó	1		7	1	-		1	্
	JAN	efasivC volbns nis8	10.7	12.B	13.9	10.0	9.9	7.2	9.7	9.1	10.1	X	Rain and/or Drizzle	7.1	9.6	11.2	7.4	6.1	4.2	0.4	5.1	7.1
	ı	Thumber (With or Wilhor Precipitation)	.2.		0	;	0.	۰.	e,	÷	-:	¥	Thunder (With or Without)	77	-3,			٦.	ú	₹.	9.	-7.
		Cloud (nower 23/10	5.4	9.04	32.0	zē.3	31.9	7:-1	6.0	£.3	37.0		Cloud Cover 13/10	38.6	35.4	2ê.7	8.72	32.9	33.9	38.1	6.9	35.4
		Obings of OOM's sanitied Weilittieth	37.4		6.74	45.7	37.4	29.5	27.4	9.52	37.3		o/ban 14 0004 - amilia iM 3 - amilifidialy	2	6.14					3.61	27.9	96.8
	ı	o/bne ff 0000 manilida iK:- neifilidaiv	8.8	33.1		3.0	24.1	16.3	16.5	8.4	 	ı	Obris PT 000's and its of the sand of the	ž.	7.38	977			8.5	7.7	19.3	8.43
		Cellings <200 Pt and/or Visibilities / I/R Mi	4.2 2	8.0		3.3		.6	1.0 1	1.9	3.4		Cellings <200 Pt and/or IM S\f> sellitidisty	1	6					7	ú	1.2
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Percentage Frequencies of Occurrence of Specified Weather Conditions

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Percentage Frequencies of Occurrence of Specified Weather Conditions

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KELLY AFB, SAN ANTONIO, TEXAS WIND ROSES

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		7	dinaturing omdood ood		30.1			31-16	Hay way of the second of the s	11.5
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		g Z	મન્યમ્થ એક ઉત્તર છે. કોજ ઉત્તર અને તેને જે જે જે માર્ચ કો નો કો કો કો કો કો કો કો કો કો કો કો કો કો		37.5			2	লক্ষ্তক ক্ৰেন্ত্ৰক্ষ্ত্ৰক্ষ্ত্ৰৰ	35.9
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KELLY AFB, SAN ANTONIO, TEXAS WIND ROSES

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	Nega	Total Speed	**************************************		15.7	100.0	2573	3 3	Total Speed		2007-1-00 2007-1-00 2007-1-00 1-00 1-00		17.1	100.0 6.3	21583
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	Near	256 Total			15.7		1	\$ 2	256 Total				17.1		İ
	Men	148-55 256 Total			15.7		1	200	68-55 256 Total				17.1		İ
	The state of the s	41-47 48-55 256 Total			15.7		1	Reserved to the second	11-17 18-55 256 Total				17.1		İ
BER		34-40 41-47 48-55 256 Total		. વાત વાત	15.7	0.001	TOTAL REMEDIO OF ORSERVATIONS		34-40 41-47 48-55 256 Total			1.5 1.7 5.9 5.9	17.1	0.001	TOTAL HIMBER OF ORGENVATIONS 21583
PTEMBER		34-40 41-47 48-55 256 Total	45 T. 1. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0.0 4.00 4.00	15.7	0.004	TOTAL REMEDIO OF ORSERVATIONS		29-33 34-50 41-47 68-55 256 Total	ည်း ကို ရွာလုံးကိုအောင် လူတွေထိုလို	1.00 to 4.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to 5.00 to	o 0 0 0 0 0 0 0 0	17.1	0.001	İ
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SEPTEMBER		11-16 17-27 28-37 34-36 41-47 48-55 256 Total			15.7	11.2 1.3 .2 .0 .0 100.0	TOTAL REMEDIO OF ORSERVATIONS		11-16 17-21 22-27 28-13 34-10 41-47 48-55 256 Total				17.1	13.0 3.0 .8 .1 .0 100.0	İ
SEPTEMBER		1-10 11-16 17-21 28-33 34-44 44-47 48-55 70-64 Total			15.7	32.4 13.2 1.3 .2 .0 .0	TOTAL REMEDIO OF ORSERVATIONS		7-10 11-16 17-21 22-27 28-33 34-40 11-47 48-55 256 Total	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	17.1	26.5 13.0 3.0 .8 .1 .0 100.0	İ

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		Total	7.0	4.9	6.5	0.	6.3	*	16.0	1.1	1.8	0.0	1.6	-	1.5	1.7	ă,	5.3		13.8	100.0	ospre
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		Dir.	2	MME	200	EXE	sa	ESE	50	289	sc:	EST.	3,6	ASA	>	MM	M	MYM	VARBL	S.E.	101	

SHEPPARD AFB WICHITA FALLS, TEXAS (Lat. 33°58'N, Long. 98°29'W, Elev. 1030 ft.)

Sheppard AFB is located in the extreme northern portion of a large section of Texas called the Central Lowlands or, more commonly, the Osage Plains. It lies east of the escarped edge of the flat High Plains, north of the rough lands of Central Texas, and west of the West Coastal Plain. The general elevation of the land is from 900 to 2000 feet and consists generally of a series of north-south oriented hilly belts or east-facing escarpments and parallel intervening broad valley troughs.

Some 400 miles to the south and southeast lies the Gulf of Mexico, which is a major factor in local weather patterns, acting as a source of low level warm moist air. This flow off the Gulf can produce stratus during the morning hours or render the lower levels of the atmosphere unstable enough to cause afternoon and evening thunderstorms.

From November to March much of the significant weather is associated with cold frontal passages which occur on an average of every three to six days. Very slow moving or quasi-stationary cold fronts produce some of the poorest flying weather. Low ceilings and visibilities, accompanied by occasional thundershowers and various types of precipitation, may persist for several days. Rapid moving cold fronts are generally preceded by a squall line, especially in the spring and fall.

Thunderstorms can occur at any time during the year, but the most severe storms are associated with the spring squall lines. This is the period most favorable for tornadoes, large hail and strong gusty winds.

SHEPPARD AFB (Cont'd.)

While strong gusty winds occur quite frequently, severe dust storms are rare. Advection or radiation fog can be expected with light winds and may restrict the visibility for several hours. Normally ceilings and visibilities will improve within a few hours after sunrise.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations from May 1942-March 1944 and August 1946-July 1967; with the exception of cloud cover for which data are not available prior to 1946.

Temperature, Precipitation, and Wind (Peak Gust) Summary

MONTHLY MEANS				Тe	Temperature $(^{\circ}F)$	o) arm	F)						
	Jan.		Feb. Mar. Apr. May	Apr.	May	June	June July Aug.	Aug.	Sep.	Sep. Oct. Nov.	Nov.	Dec.	Annua1
Meximum	53.0	58.3	65.3	76.5	83.4	92.2	53.0 58.3 65.3 76.5 83.4 92.2 96.8 97.4 88.7 78.4 64.9 55.5	4.76	88.7	78.4	6,49	55.5	0.97
Mean	41.2	†·9†	52.7	64.3	72.1	81.0	41.2 46.4 52.7 64.3 72.1 81.0 85.3 85.3 76.8 66.2 52.8 44.3	85.3	76.8	66.2	52.8	44.3	64.2
Minimum	29.0	34.0	39.6	51.6	4.09	4.69	29.0 34.0 39.6 51.6 60.4 69.4 73.3 72.7 64.5 53.6 40.4 32.6	72.7	64.5	53.6	4.04	32.6	51.9
			E	ecord	Temper	ature	Record Temperature Extremes	ន					
Maximum	87	88	98	66	104	109	104 109 111 113	113	107	101	68	88	
Minimum	-12	7	<u>ب</u> 9	28 eriod o	36 of Rec	51 ord:	28 36 51 57 54 42 Period of Record: 1942-1944, 1946-1967	54 944, 19	42 946-19	25 67	17	7	
MONTHLY MEANS				Preci	Precipitation (Inches)	on (In	ches)						
Precipitation	.93	.99	1.47	3.27	5.00	3.25	.99 1.47 3.27 5.00 3.25 2.29 1.68 2.66 2.37 1.45 1.40	1.68	2.66	2.37	1.45	1.40	26.76
Snowfall* 2.3 1.7 (*Hail was included in Snowfall Summary prior to January 1956)	2.3 1.7 uded in Snowfall to January 1956)	1.7 Snowfa ry 195		Teriod	T of Rec	T ord:	.9 T T T .0 .0 .0 .3 .7 Period of Record: Precipitation 1942-1944, 1946 Snowfall 1946-1967	.0 itatio	o. 491. 491.	.0 2-1944 6-1967	.3 , 1946	.7	5.8

Maximum and/or Minimum Anemometer Height:

47 feet 09/55, 21 feet 04/61

MN 47

SSE SW W N N NW SW 60 59 63 56 70 50 51 Period of Record: 1951-1954, 1957-1967

28 28

NNW 53

Wind Direction

Surface Winds (Knots) - Record Peak Gusts

Percentage Frequencies of Occurrence of Specified Weather Conditions

	uc	To secourroso issor isiv or emoiturrisedo	5.01	15.1	15.7	14.0	17.7	0.01	6.6	9.3	11.6	pojej/	Total Occurrences obstructions to	4.6	¥.	8,4	5.5	3.5	3.1	3.8	4.2	4.9	
		Dust (Blowing and/or Suspended)	1.3	8.	1.5	1.7	2.1	2.3	2.8	1:1	1.8	20/1	Dust (Blowing and Suspended)	1.5	60	3.6	5.0	1.8	1.9	7. 7.	2.3	1.8	
		Blowing Snow	1	۲,	1	1	ē	7	εų	Ģ	7		Blowing Snow		1		1	1	}	:	;	1	
		ezaH 10/bha exionS	٦.	7	9,	8.	1.0	ø.		r¥.	÷		Smoke and/or Haze	7	ci.	٠.	≠.	ú	7	i	٦.	«·	
		3o4	9.5	11.1	13.8	9.11	8.2	6.7	9.9	7.2	9.3		#ca	3.0	4	6.5	3.1	1.3	1.1	7.	1.8	8.8	
		nolinaiqip a fq	5	8.5 11	9.5 13		20	8.5 6	9 6.7	8.8	a p		acitatiqisərS	6.1	6.3	0.9	5.4		5.6	6.4	7.0	6.0	
		Class to seconstructor Lator	. 8.	æ) -		10.0	e) !		:	٠, 8	ej O	,5	Total Occurrences				1	۲.	٠.	٠.	ci.	o,	
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	FEBRUARY	eizzitű gaizserif fesik tolána woak	1.9	2.1	ณ์	3.6	oi O	2.2	1.	1.1.7	ri O	. 3	Freezing Drizzle Snow and/or Sleet	i				;		:		o.	
	EBRU	To\bas nis8 gairesTT	1.1	1.0	5.2	17	0.1	9.1	9,	1.1	1.0	₹	pos otel Boizeera			!				-			
	Œ	Fair and/or Drizzie	5.6	5.8	9.9	6.3	5.7	5.7	5.8	6.3	6.0	**	Precipitation)	6.3	6.3	5.9	5.4	5.3	5.5	4.9	6.9	0.9	
	3TO	Thunder (With or With Precipitation)		٠.	۲.	۲.	4	ł	ŗ.	-	ů.		Thumder (With or)	7:1	1.7	á	ð.	ġ.	1.7	3.5		1.7	
		Olike gawes buof?	54.3	53.3	45.8	6.04	39.1	42.3	48.4	55.9	47.6		Cloud Cover £3/10	55.7	53.7	4.04	40.5	42.4	43.2	48.2	55.5	4.74	
	ac/	Sellings <4000 Ft and Weilitigs <5 Mi	17.	25.8	28,6	28.2	99.0	51.6	19.0	8	24.1	ac\tame	#5 0000> sBallieb W d> delbilidistV	7.41	17.5	22.7	24.2	16.3	12,6	11.9	12.8	16.8	
	20/	Cellings <2000 Fr and Visibilities · 3 Mi	15.3	18.2	8.5	4.08	9.91	13.6	11.6	13.1	16.2	40/\$us	PR SCOOK amilias Wishilitidian	6.7	9.1	12.9	13.1	6.7	4.	5.1	4.5	8,1	
	10	Ceilings <pre><pre><pre>Ceilings <pre><pre></pre> <pre>Visibilities</pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre< td=""><td>4.9</td><td>3.4</td><td></td><td>7:1</td><td>ij</td><td>ŗ.</td><td>٠,</td><td>..</td><td>1.7</td><td>IN 20/pm</td><td>Cellings <2.00 Ft : 3\f> selfilidisiv</td><td>o.</td><td>è.</td><td>1.0</td><td>٦.</td><td>ļ</td><td>٦.</td><td>ì</td><td>į</td><td>ŗ.</td><td></td></pre<></pre></pre></pre></pre>	4.9	3.4		7:1	ij	ŗ.	٠,	. .	1.7	IN 20/pm	Cellings <2.00 Ft : 3\f> selfilidisiv	o.	è.	1.0	٦.	ļ	٦.	ì	į	ŗ.	
	9	no)levined() lo medmiK	1,780	1,781	1.781	1,781	1,782	1,700	1,780	1,780	14,245	suc:	Number of Chaerva	1,799	1,800	1,798	1,793	1,794	1,800	1,799	1,800	14,383	
		Howrs	24	63-05	90-90		12-14	15-17	18-20	21-73	All Hours 1		goma	30-05	03-05	9090	09-11	41-41	74-61	18-20	21-23	All Hours	
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	ī	7: Social Cocumission (1856) roisiv of snoithernitedo	7.9	10.0	4.01	10.8	7.1	6.1	5.8	0.9	8.0	ucța: je	Potat Occurrences	4·L	4.6	9.01	7.8	4.9	7.2	8.1	7.0	7.9	
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		essi to\bns excel				1.0	٧.		-:	į	ė.		Smoke and/or Haze	٦.	٦:	6,	۲.	60	- †.	- †.	7.	4.	
•		90,	17	9		9.8	0.9	-3	8.4	5.5	7.0		90,	1.5	4.9	8.5	5.3	2.7	5.6	3.1	3.4	9,4	
		lo ascontration doi:saidioer	9.6	2.3		- m	d.	9.5	. 6.8	8.9	7.8	je	nosaetroof Latel nostantigioeri	5.5	5.8	1.0	6.5	5.5	4.4	6.4	1.7	5.6	
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	>	feet3 To\bms World	;] ;							2.7	2.8	_	laeją zo, puw moug	-	.7	1.0	1:1	ė.	9.	9.	9	6.	
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		Youd Sever 13/13		1.6	22.5	e 6	, A	2 =		97.8	49.5		Jong Cover \$3/10	58.1	9.4.6	45.8	6.54	43.1	3.5	1,74	58.0	49.2	
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		ano: savreedO to redam								266,1		FWO	ізжутевої отвежи	x G	080	7 1921	1 053	56.	1.952	1.953	1,953	15,618	
		onta	-						17-61		-		s.mc	١,					15-17	28.20	23 -23		

0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

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indicates that the condition has occurred exactly 0.00 percent or A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

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ezeH ro/bns estomS	ď	o,	۲.	- †.	ď	٦:	ŗ.	٠.	ŗ.	Smoke and/or Haze	į	ì	- †,	7	į	7	cń	7.	4:
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*issitu no/bna nies	9.6	. 9.6	0.4	3.2	8.8	- t-	3.1 -	- 5.4	3.9	Afsziad 30/bae aing	ο. ο.	3.5	3.9	2.7	2.4.	2.3	1.8	. 7.4	5.6
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Closd Cover 13/10		-#.	ω _j	- -		e	<u>-</u>	9	-	01/82 meves buofs	73.6	6.17	6.73	_	8:38	55.1	0.40	72.7	65.9
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inodilik am dilik) mahmud mmilikaliginar		3.4	2,3	4.4	1.8	8.3	3.6	L:4	3.1	smodsië to Asië, mebmud? (molskilgiesi)	2.0	1.4	2.1	1.1	1.1	1.8	2.2		1.7
COVER 53/10	51.6	0.94	9.04	39.9	11.0	43.4	16.2	51.4	45.2	Cloud Cover 23/10	9.69	63.2	8.0	51.9	6.54	52.1	59.9	69.5	57.8
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encilevised? To Tedmu	r 646.1	1,952	1,952	•	1,953	- 156'1	1.952	1,951	15,610	anoijav⊤sadO lo ⊤⇒dami		1,953	1,953	1.952	1,953	1,953		1,953	15,623
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ome	R S	5-8	36-36	09-11	12-14	15-17	- 6	2	All	BANY	8	Š	- 96	g	. 21		, 193	3	

- indicates that the condition has occurred exactly 0.00 percent of the time. 0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time. A blank indicates that the data are not available.

Percentage Frequencies of Occurrence of Specified Weather Conditions

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	atiqiseri		r 9.4	5.5	4,3	3.8	9:	3.8	7	i.3		To securrences of Precipitation	. 0.1	7.9	7.8					15	. 2.9	than (time.
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OC DESERVOR OF BEEN SERVICE		-	9		3		;		;		1	D staring nothing mind D 2000 mind and 2000 mind Tothing mind and 2000 mind	5.3	5.8	5.6 1	5.8	۴.٦	3.8	0,1	4	6.4	indicates that the condition has of the time, but more than 0.00 ; indicates that the condition has
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IN 9> s=1: 01/€> 4=1	CIONG COA	77.8	68.4	58.7	2.9	55.4	57.3	63.9	70.0	9'29		Visibilities 48 ML Cloud Cover 13/10	61.	8	5 51.3	4.44	£.	8 45.9		63	3 53.4	s tha ime, t
To\bns #7 0004>	Sanilia0	10.4	14.9	17.0	16.4	14.2	6.6	6.7	8.8	12.5		Toliings -4000 Ft and/or	19.7	21.3	25.6	24.6	7.13	£9.	17.5	17.0	8.8	dicate the ti
# 5/1> 892; TO\brus # 3005> # E> 893;	1	5.9	9.0	10.4	10.5	6.5	3.9	3.8	4.7	6.7		IN SAIN selilifisty (selilification) of colors against (selilification) in Example (se	13.0	14.3	17.3	19.0	15.3	11.5		10.6	13.7	0.0 income of
4800 Pt and/or	Ceilings	ď		7.4	ď	1	7.	ì	۲.	ů.		40, pue \$4 003 * eBuille0	1.8	2.1	3.4	†:T	αį	٦.	ú	ė,	1.3	6
amolisevisedO .	Number of	2,010	2,011	2,013	2,013	2,015	2,015	2,014	110'2	16, 102		Sumber of Chaervating	2,014	2,015	2,015	2,015	2,014	2,015	2,012	2,013	16,113	
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SHEPPARD AFB, WICHITA FALLS, TEXAS WIND ROSES

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SHEPPARD AFB, WICHITA FALLS, TEXAS WIND ROSES

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