

1998

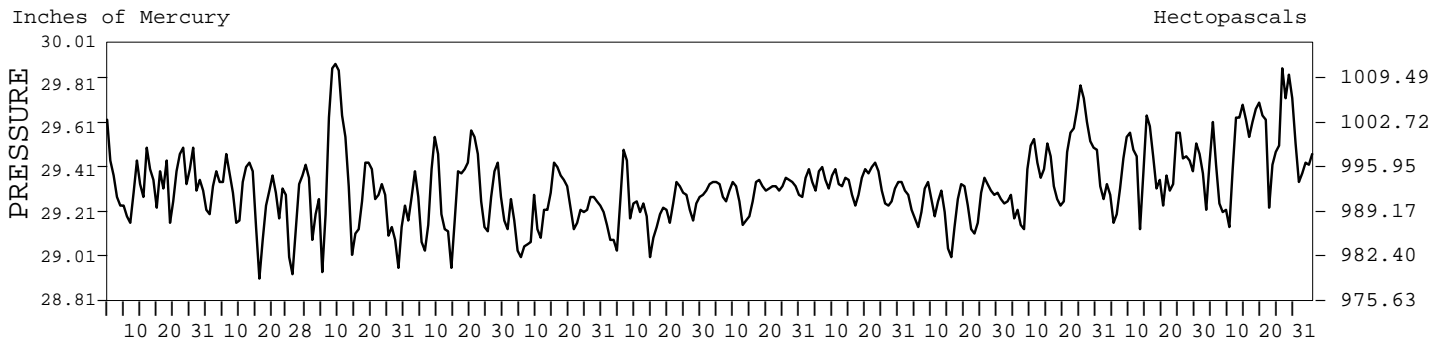
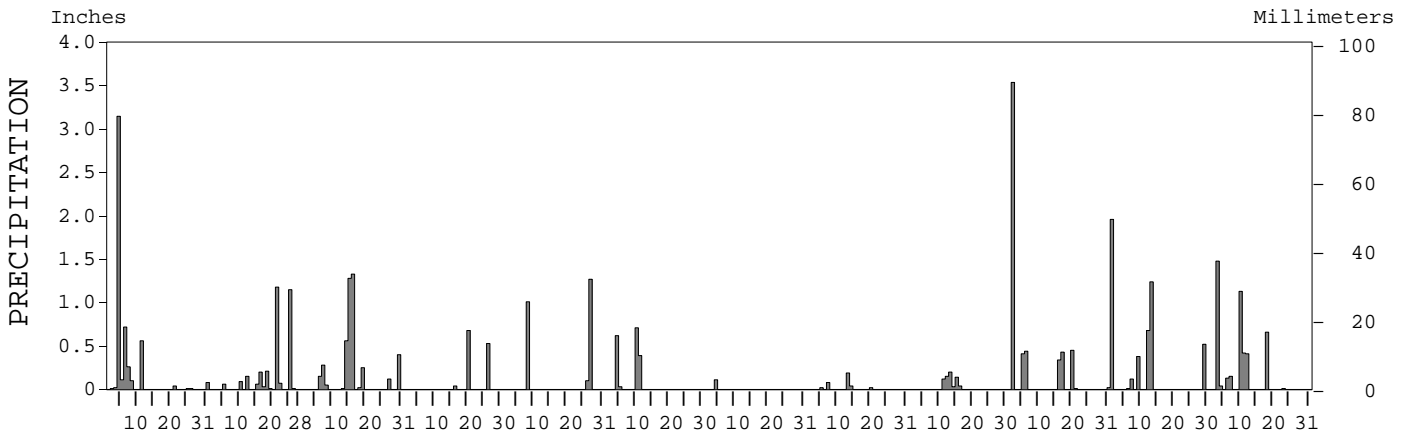
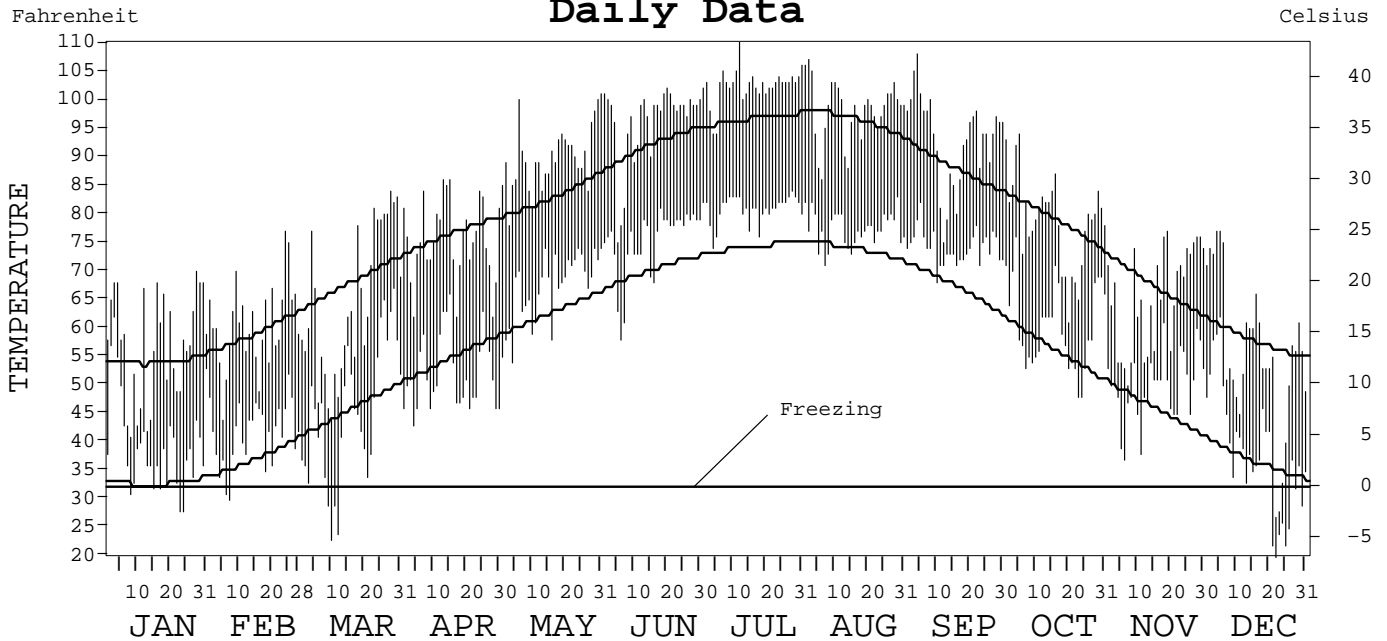
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5051

DALLAS - FORT WORTH,  
TEXAS (DFW)

Daily Data



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*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 1998

DALLAS-FORT WORTH, TX (DFW)

LATITUDE: 32° 53' 47" N      LONGITUDE: 97° 02' 28" W      ELEVATION (FT): GRND: 551      BARO: 575      TIME ZONE: CENTRAL (UTC+ 6)      WBAN: 03927

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	57.1	60.6	64.6	75.4	89.8	95.9	102.4	98.1	93.0	78.7	65.5	55.7	78.1	
	HIGHEST DAILY MAXIMUM	70	77	84	86	101	102	110	107	108	94	77	77	110	
	DATE OF OCCURRENCE	28	24	28	15+	31	20	12	02	04	05	19	05+	JUL 12	
	MEAN DAILY MINIMUM	39.6	41.5	45.2	52.1	67.1	75.0	80.8	77.4	74.1	60.3	49.7	38.3	58.4	
	LOWEST DAILY MINIMUM	28	30	23	43	54	58	74	71	68	48	37	20	20	
	DATE OF OCCURRENCE	24+	07	10	04	04	06	04	07	10	24+	06	22	DEC 22	
	AVERAGE DRY BULB	48.4	51.1	54.9	63.8	78.5	85.5	91.6	87.8	83.6	69.5	57.6	47.0	68.3	
	MEAN WET BULB	45.5	46.7	48.5	55.5	69.0	74.0	74.7	73.9	72.8	63.4	54.1	43.7	60.2	
	MEAN DEW POINT	42.2	42.3	41.7	48.0	63.6	68.8	66.9	67.6	67.6	59.3	50.7	39.5	54.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	14	26	31	28	21	3	0	0	123	
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	2	2	
	MINIMUM ≤ 32°	5	2	4	0	0	0	0	0	0	0	0	8	19	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	512	383	347	86	0	0	0	0	0	31	226	559	2144	
	COOLING DEGREE DAYS	0	0	45	56	424	623	831	710	563	177	9	9	3447	
RH	MEAN (PERCENT)	82	77	65	60	63	59	47	55	63	73	80	77	67	
	HOUR 06 LST	91	91	78	79	86	80	69	75	81	88	89	86	83	
	HOUR 12 LST	75	66	59	45	51	51	39	45	54	61	70	68	57	
	HOUR 18 LST	75	65	54	45	45	44	31	41	51	63	74	70	55	
	HOUR 24 LST	87	83	69	70	70	61	50	62	68	79	86	83	72	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	2	0	0	0	0	0	0	0	0	4	5	13	
	THUNDERSTORMS	5	4	7	3	3	3	1	6	0	4	5	3	44	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.36	29.27	29.34	29.30	29.22	29.23	29.32	29.35	29.25	29.43	29.43	29.54	29.34	
	MEAN SEA-LEVEL PRESS. (IN.)	30.00	29.90	29.97	29.93	29.83	29.84	29.93	29.96	29.86	30.05	30.06	30.18	29.96	
WINDS	RESULTANT SPEED (MPH)	0.8	1.3	4.1	3.2	2.5	8.0	4.7	1.6	2.2	3.5	1.8	1.9	1.8	
	RES. DIR. (TENS OF DEGS.)	31	33	21	21	09	15	17	22	17	12	18	35	17	
	MEAN SPEED (MPH)	10.9	9.6	14.5	12.0	11.0	14.6	10.6	7.9	8.3	10.1	9.9	9.7	10.8	
	PREVAIL. DIR. (TENS OF DEGS.)	17	01	17	17	17	18	20	18	15	17	18	02	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	33	32	39	34	43	40	30	29	32	41	39	36	43	
	DIR. (TENS OF DEGS.)	18	27	17	19	34	19	16	32	07	31	30	26	34	
	DATE OF OCCURRENCE	20	25	27+	25+	08	08	04	28	11	02	09	06	MAY 08	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	40	51	41	49	47	36	34	39	48	47	39	51	
DIR. (TENS OF DEGS.)	19	18	17	17	25	30	17	32	06	31	30	25	17		
DATE OF OCCURRENCE	20	25	27	12	27	04	04	28	11	02	09	06	MAR 27		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.07	3.22	4.45	1.25	2.38	1.75	0.11	0.35	0.68	5.64	4.91	4.43	34.24	
	GREATEST 24-HOUR (IN.)	3.15	1.25	2.44	0.68	1.27	1.10	0.11	0.23	0.25	3.54	1.96	1.52	3.54	
	DATE OF OCCURRENCE	04	21-22	15-16	20	27	10-11	04	13-14	12-13	02	01	03-04	OCT 02	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	12	12	11	3	3	4	1	5	6	8	7	9	81	
PRECIPITATION ≥ 0.10	6	5	8	2	3	3	1	1	4	6	6	7	52		
PRECIPITATION ≥ 1.00	1	2	2	0	2	0	0	0	0	1	2	2	12		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

# NORMALS, MEANS, AND EXTREMES

DALLAS-FORT WORTH, TX (DFW)

LATITUDE: 32° 53' 47" N      LONGITUDE: 97° 02' 28" W      ELEVATION (FT): GRND: 551      BARO: 575      TIME ZONE: CENTRAL (UTC+ 6)      WBAN: 03927

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	54.1	58.9	67.8	76.3	82.9	91.9	96.5	96.2	87.8	78.5	66.8	57.5	76.3
	MEAN DAILY MAXIMUM	51	54.6	59.7	67.5	76.2	83.2	91.6	96.0	95.6	88.5	78.6	66.2	57.9	76.3
	HIGHEST DAILY MAXIMUM	45	88	95	96	95	103	113	110	108	108	102	89	88	113
	YEAR OF OCCURRENCE		1969	1996	1991	1990	1985	1980	1998	1964	1998	1979	1989	1955	JUN 1980
	MEAN OF EXTREME MAXS.	51	76.2	80.2	85.4	89.2	94.1	99.0	102.7	103.1	98.6	92.4	82.9	77.4	90.1
	NORMAL DAILY MINIMUM	30	32.7	36.9	45.6	54.7	62.6	70.0	74.1	73.6	66.9	55.8	45.4	36.3	54.6
	MEAN DAILY MINIMUM	51	33.7	38.2	45.2	54.3	63.0	70.8	74.7	74.0	67.0	56.2	44.7	37.0	54.9
	LOWEST DAILY MINIMUM	45	4	7	15	29	41	51	59	56	43	29	20	-1	-1
	YEAR OF OCCURRENCE		1964	1985	1980	1989	1978	1964	1972	1967	1984	1993	1959	1989	DEC 1989
	MEAN OF EXTREME MINS.	51	16.0	21.1	27.4	37.5	49.5	60.3	67.5	65.6	52.6	40.3	28.6	20.4	40.6
	NORMAL DRY BULB	30	43.4	47.9	56.7	65.5	72.8	81.0	85.3	84.9	77.4	67.2	56.2	46.9	65.4
	MEAN DRY BULB	51	44.2	48.9	56.3	65.3	73.0	81.2	85.3	84.9	77.7	67.3	55.3	47.4	65.6
	MEAN WET BULB	15	40.2	44.3	50.5	57.4	66.4	72.2	73.8	73.1	68.3	59.7	49.8	42.7	58.2
	MEAN DEW POINT	15	34.0	37.5	43.6	51.0	62.1	68.1	68.5	67.6	63.0	54.2	44.0	37.0	52.6
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.2	1.0	4.5	19.5	27.5	26.8	14.4	3.1	0.0	0.0	97.0	
MAXIMUM ≤ 32°	30	1.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.6	
MINIMUM ≤ 32°	30	15.7	9.3	2.8	0.2	0.0	0.0	0.0	0.0	0.0	*	2.3	10.7	41.0	
MINIMUM ≤ 0°	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	670	484	286	75	0	0	0	0	0	51	275	566	2407
	NORMAL COOLING DEG. DAYS	30	0	5	29	90	246	480	629	617	372	119	11	5	2603
RH	NORMAL (PERCENT)	30	68	66	64	65	70	66	60	60	66	66	67	68	66
	HOUR 06 LST	30	72	72	69	72	78	74	67	66	74	73	74	73	72
	HOUR 12 LST	30	79	80	79	82	87	85	80	80	84	82	81	79	82
	HOUR 18 LST	30	60	58	56	56	59	55	49	49	55	54	56	59	56
	HOUR 24 LST	30	57	54	50	52	56	50	44	44	52	54	58	59	52
S	PERCENT POSSIBLE SUNSHINE	17	52	54	58	61	57	67	75	73	67	63	57	52	61
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	45	2.5	1.5	1.0	0.6	0.3	0.1	0.0	0.0	0.1	0.8	1.5	2.5	10.9
	THUNDERSTORMS	45	1.3	1.8	4.4	5.9	7.4	6.3	4.7	4.4	3.3	3.0	2.0	1.1	45.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			4.0		4.0	3.2						4.8	
	MIDNIGHT-MIDNIGHT (OKTAS)	1			4.0										
	MEAN NO. DAYS WITH:														
CLEAR	1	2.0	6.0	15.0		10.0	11.0								
PARTLY CLOUDY	1		2.0			4.0	8.0								
CLOUDY	1	2.0		7.0		6.0	2.0								
PR	MEAN STATION PRESSURE (IN)	26	29.49	29.49	29.40	29.30	29.30	29.30	29.40	29.40	29.39	29.40	29.40	29.50	29.40
	MEAN SEA-LEVEL PRES. (IN)	15	30.14	30.08	30.01	29.93	29.90	29.91	29.96	29.96	29.98	30.04	30.08	30.13	30.01
WINDS	MEAN SPEED (MPH)	45	11.0	11.7	12.7	12.4	11.1	10.6	10.0	9.1	9.5	9.9	11.0	11.1	10.8
	PREVAIL. DIR (TENS OF DEGS)	2	02	01	18	34	18	18	19	18	18	16	34	34	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	41	36	39	38	43	47	34	47	33	41	39	39	47
	DIR. (TENS OF DEGS)		29	27	17	34	34	32	14	33	24	31	30	25	33
	YEAR OF OCCURRENCE		1996	1997	1998	1997	1998	1996	1997	1996	1996	1998	1998	1997	AUG 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	51	44	51	45	49	57	40	47	39	48	47	47	57	
DIR. (TENS OF DEGS)		19	27	17	19	25	34	30	34	24	19	30	26	34	
YEAR OF OCCURRENCE		1996	1997	1998	1996	1998	1996	1997	1996	1996	1996	1998	1997	JUN 1996	
PRECIPITATION	NORMAL (IN)	30	1.83	2.18	2.77	3.50	4.88	2.98	2.31	2.21	3.39	3.52	2.29	1.84	33.70
	MAXIMUM MONTHLY (IN)	45	5.07	7.40	6.69	12.19	13.66	8.75	11.13	6.85	9.52	14.18	6.23	8.75	14.18
	YEAR OF OCCURRENCE		1998	1997	1995	1957	1982	1989	1973	1970	1964	1981	1964	1991	OCT 1981
	MINIMUM MONTHLY (IN)	45	T	0.15	0.10	0.11	0.95	0.40	0.00	T	0.09	T	0.20	0.17	0.00
	YEAR OF OCCURRENCE		1986	1963	1972	1987	1996	1964	1993	1980	1984	1975	1970	1981	JUL 1993
	MAXIMUM IN 24 HOURS (IN)	45	3.15	4.06	4.39	4.55	5.34	3.15	3.76	4.05	4.76	5.91	2.83	4.22	5.91
	YEAR OF OCCURRENCE		1998	1965	1977	1957	1989	1989	1975	1976	1965	1959	1964	1991	OCT 1959
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	6.7	6.3	7.3	7.6	8.7	6.4	4.7	4.6	7.1	6.2	6.0	6.5	78.1	
PRECIPITATION ≥ 1.00	30	0.3	0.5	0.7	1.2	1.4	0.9	0.7	0.8	1.1	1.4	0.6	0.4	10.0	
SNOWFALL	NORMAL (IN)	30	1.4	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	3.1
	MAXIMUM MONTHLY (IN)	43	12.1	13.5	2.5	T	T	0.0	0.0	0.0	0.0	T	5.0	2.6	13.5
	YEAR OF OCCURRENCE		1964	1978	1962	1995	1995					1993	1976	1963	FEB 1978
	MAXIMUM IN 24 HOURS (IN)	43	12.1	7.5	2.5	T	T	0.0	0.0	0.0	0.0	T	4.8	2.5	12.1
	YEAR OF OCCURRENCE		1964	1978	1962	1995	1995					1993	1976	1963	JAN 1964
	MAXIMUM SNOW DEPTH (IN)	48	6	8	2	0	0	0	0	0	0	0	3	2	8
	YEAR OF OCCURRENCE		1964	1978	1971								1976	1983	FEB 1978
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.1	1.1	

PRECIPITATION (inches) 1998 DALLAS - FORT WORTH, TX (DFW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	1.26	1.99	3.62	3.40	7.12	0.63	0.77	2.56	4.55	5.82	1.22	2.75	35.69
1970	0.72	4.78	3.49	4.68	3.62	0.61	0.94	6.85	6.25	2.95	0.20	1.01	36.10
1971	0.19	1.32	0.34	2.76	1.88	0.83	3.60	5.70	3.24	7.64	1.77	6.99	36.26
1972	1.09	0.26	0.10	3.25	2.35	1.50	0.59	0.81	2.42	6.89	2.36	0.61	22.23
1973	3.26	1.92	2.28	6.06	3.18	5.88	11.13	0.01	7.16	6.85	2.06	0.83	50.62
1974	1.79	1.01	0.80	2.51	6.00	5.44	0.67	4.19	6.04	5.93	3.32	1.93	39.63
1975	3.34	3.72	1.67	3.40	6.88	1.95	5.06	0.30	0.87	T	0.42	1.49	29.10
1976	0.13	0.52	2.29	5.71	6.03	1.40	3.83	4.75	5.02	3.46	0.50	1.99	35.63
1977	2.39	1.68	5.88	4.31	0.99	0.69	2.20	2.33	1.72	2.96	1.79	0.25	27.19
1978	1.41	3.33	2.66	1.34	8.01	0.77	0.33	1.53	0.93	0.55	2.73	0.78	24.37
1979	3.35	1.52	6.33	2.03	5.90	1.36	1.94	2.47	0.99	3.38	0.43	2.72	32.42
1980	2.52	0.84	1.24	2.23	3.01	1.25	0.71	T	6.54	1.08	1.23	1.43	22.08
1981	0.58	1.44	3.39	2.69	6.24	7.85	1.81	2.32	2.40	14.18	1.53	0.17	44.60
1982	2.33	1.89	1.71	2.71	13.66	4.28	2.73	0.52	0.58	3.36	4.22	2.76	40.75
1983	2.55	1.25	4.36	0.59	5.83	2.07	1.56	5.55	0.22	4.04	2.22	0.83	31.07
1984	1.07	3.11	4.92	1.41	3.04	2.79	0.43	1.47	0.09	6.50	2.97	6.09	33.89
1985	0.81	2.62	3.70	3.75	2.13	3.78	2.40	0.53	3.35	3.91	3.11	0.61	30.70
1986	T	2.49	1.08	5.30	5.52	3.92	0.41	1.63	4.60	1.81	3.25	2.44	32.45
1987	1.22	3.67	1.70	0.11	5.95	3.45	1.77	0.81	1.38	0.12	4.17	2.90	27.25
1988	0.88	1.23	2.03	2.21	2.11	3.23	2.47	0.44	4.04	1.64	2.28	2.48	25.04
1989	2.56	3.70	3.72	1.86	9.62	8.75	2.61	1.89	2.40	2.02	0.49	0.33	39.95
1990	4.54	4.72	5.89	6.90	7.16	1.89	2.60	2.37	1.12	2.81	3.81	1.46	45.27
1991	2.72	2.60	1.35	3.63	6.97	4.26	3.99	4.30	4.61	9.32	1.04	8.75	53.54
1992	3.25	2.40	3.24	2.46	6.93	5.23	2.48	2.08	3.25	3.05	3.56	4.26	42.19
1993	1.74	5.78	3.03	3.49	1.75	3.75	0.00	0.75	3.28	5.10	1.62	2.54	32.83
1994	1.43	2.01	1.69	3.62	5.80	2.05	4.58	4.89	1.39	8.19	6.03	2.42	44.10
1995	2.11	0.44	6.69	6.83	7.50	2.41	3.45	0.86	1.54	0.75	0.74	2.08	35.40
1996	0.97	0.35	2.36	2.14	0.95	3.42	3.85	5.02	1.51	6.56	5.54	0.47	33.14
1997	0.33	7.40	2.21	6.73	3.92	3.99	1.68	3.13	2.01	5.66	1.01	6.93	45.00
1998	5.07	3.22	4.45	1.25	2.38	1.75	0.11	0.35	0.68	5.64	4.91	4.43	34.24
POR= 100 YRS	1.00	0.45	2.38	2.18	0.99	3.41	3.79	4.95	1.51	6.54	5.48	0.58	33.26

WBAN : 03927

AVERAGE TEMPERATURE (°F) 1998 DALLAS - FORT WORTH, TX (DFW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	49.0	50.0	49.8	65.4	71.9	79.8	87.9	84.2	77.1	65.3	55.1	49.9	65.5
1970	40.6	48.6	52.1	66.2	71.7	79.1	84.0	85.8	78.2	65.1	54.7	53.6	65.0
1971	46.7	49.2	55.6	64.0	70.5	82.9	84.4	79.5	77.1	70.1	57.0	52.2	65.8
1972	45.0	51.5	62.1	70.1	72.7	81.4	83.1	84.7	80.8	67.5	50.1	44.0	66.1
1973	42.5	47.9	60.0	60.7	71.7	79.3	83.9	82.9	76.1	68.3	59.8	48.4	65.1
1974	43.6	52.3	62.9	65.8	75.7	78.7	86.1	82.9	70.9	69.2	55.5	47.2	65.9
1975	49.0	46.6	53.8	64.7	72.4	80.9	83.6	84.8	75.6	69.8	57.3	49.0	65.6
1976	45.0	58.4	59.4	64.9	68.6	78.8	82.1	84.2	76.1	60.2	49.5	45.0	64.4
1977	34.7	49.4	57.2	66.8	77.4	84.1	87.1	84.9	81.6	66.7	56.4	47.6	66.2
1978	33.8	36.7	54.1	67.1	73.1	82.3	88.4	84.6	80.2	68.9	57.7	46.1	64.4
1979	35.4	42.2	56.7	64.4	69.7	81.0	84.5	82.5	77.0	70.8	52.9	49.4	63.9
1980	45.5	46.6	54.2	63.1	75.0	87.0	92.0	88.5	80.3	65.4	54.9	49.4	66.8
1981	44.6	48.9	55.7	69.2	70.5	80.3	85.9	83.4	76.2	66.1	57.5	47.3	65.5
1982	44.6	44.5	59.8	62.5	72.5	79.2	84.6	86.7	78.1	67.0	55.6	49.2	65.4
1983	43.4	48.5	54.5	60.6	69.5	77.3	83.6	84.9	77.1	67.8	57.3	34.8	63.3
1984	39.3	50.9	56.3	63.7	73.7	82.5	85.5	85.8	76.1	67.0	54.6	52.6	65.7
1985	37.8	45.0	60.8	67.2	74.0	80.2	84.4	87.6	77.7	67.6	56.3	42.3	65.1
1986	48.8	51.2	60.2	67.2	71.5	80.8	86.4	83.4	80.2	65.7	52.4	46.1	66.2
1987	44.5	50.8	53.9	65.0	75.1	79.6	83.4	86.5	77.1	66.5	55.7	47.3	65.5
1988	42.2	47.1	56.0	64.5	72.8	80.4	85.3	87.9	79.2	65.7	58.1	49.1	65.7
1989	50.0	42.2	56.7	66.4	74.3	77.9	82.8	82.3	74.7	69.0	58.2	39.0	64.5
1990	51.8	53.9	57.7	64.0	73.4	84.0	82.5	84.6	80.0	66.4	59.8	44.0	66.8
1991	42.8	53.7	59.8	67.4	75.4	81.0	85.0	82.5	75.2	68.1	51.7	50.3	66.1
1992	46.9	54.4	59.1	66.0	71.1	79.4	84.3	80.2	77.7	69.5	52.7	49.9	65.9
1993	45.1	49.0	56.1	63.3	71.9	81.7	87.3	87.5	78.2	63.8	51.6	49.5	65.4
1994	45.7	48.6	59.0	65.9	71.5	84.1	83.9	84.0	76.3	67.3	57.9	49.0	66.1
1995	48.2	52.5	56.9	64.2	73.2	79.9	85.5	85.5	76.6	67.8	54.8	47.5	66.1
1996	43.0	52.1	53.3	64.2	79.7	82.5	86.2	82.5	74.5	66.9	54.9	49.2	65.8
1997	44.0	49.5	58.3	60.4	70.1	78.8	84.9	83.1	80.2	67.2	52.1	45.6	64.5
1998	48.4	51.1	54.9	63.8	78.5	85.5	91.6	87.8	83.6	69.5	57.6	47.0	68.3
POR= 100 YRS	45.1	48.8	56.9	65.1	72.8	81.0	84.7	84.6	77.9	67.6	55.9	47.5	65.7

HEATING DEGREE DAYS (base 65°F) 1998 DALLAS - FORT WORTH, TX (DFW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	0	116	306	463	756	455	404	63	21	1	2585
1970-71	0	0	7	105	316	369	564	440	307	97	19	0	2224
1971-72	0	0	12	7	270	389	615	398	143	26	1	0	1861
1972-73	0	0	3	96	446	644	690	475	155	182	12	0	2703
1973-74	0	0	1	36	182	509	656	352	173	70	1	0	1980
1974-75	0	0	20	16	296	546	489	508	355	112	0	0	2342
1975-76	0	0	4	33	266	500	616	217	222	48	20	0	1926
1976-77	0	0	0	214	459	614	931	431	241	37	0	0	2927
1977-78	0	0	0	55	257	536	962	786	346	54	41	0	3037
1978-79	0	0	0	27	247	578	911	635	261	78	29	0	2766
1979-80	0	0	0	34	370	478	597	530	339	102	6	0	2456
1980-81	0	0	18	99	330	486	625	448	284	26	23	0	2339
1981-82	0	0	10	116	228	541	625	569	232	140	9	0	2470
1982-83	0	0	1	94	316	495	663	454	324	186	21	2	2556
1983-84	0	0	12	52	269	933	789	401	281	89	11	0	2837
1984-85	0	0	38	66	322	389	837	558	171	37	0	0	2418
1985-86	0	0	19	53	285	696	495	400	164	41	5	0	2158
1986-87	0	0	0	61	376	580	632	387	342	109	0	0	2487
1987-88	0	0	0	55	297	540	703	512	301	70	0	0	2478
1988-89	0	0	0	51	240	487	460	630	294	102	4	0	2268
1989-90	0	0	14	80	251	799	401	306	251	102	19	0	2223
1990-91	0	0	0	100	190	646	681	314	198	37	7	0	2173
1991-92	0	0	12	69	405	456	555	302	182	73	14	0	2068
1992-93	0	0	0	14	366	474	612	445	290	120	4	0	2325
1993-94	0	0	2	145	414	476	594	451	229	83	27	0	2421
1994-95	0	0	6	71	226	487	521	348	289	86	13	0	2047
1995-96	0	0	22	41	304	549	671	403	384	104	0	0	2478
1996-97	0	0	14	51	308	483	650	429	213	155	16	0	2319
1997-98	0	0	0	89	383	593	512	383	347	86	0	0	2393
1998-	0	0	0	31	226	559							

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COOLING DEGREE DAYS (base 65°F) 1998 DALLAS - FORT WORTH, TX (DFW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	3	3	3	67	228	453	715	602	372	133	17	0	2596
1970	5	0	7	108	236	433	595	653	409	115	12	22	2595
1971	0	6	21	71	195	546	606	456	382	171	36	1	2491
1972	2	14	57	185	249	498	569	618	480	183	4	0	2859
1973	1	0	6	60	230	435	593	559	342	146	33	0	2405
1974	0	2	115	101	341	419	660	563	202	153	20	2	2578
1975	0	0	15	107	236	483	580	620	331	189	39	9	2609
1976	0	32	59	52	138	421	537	602	338	72	0	0	2251
1977	0	0	7	94	391	581	693	626	505	112	6	2	3017
1978	0	0	16	125	301	524	733	614	462	153	37	0	2965
1979	0	1	9	67	179	489	613	551	366	220	14	0	2509
1980	0	0	11	52	320	668	844	737	485	117	35	10	3279
1981	0	5	5	158	200	467	654	577	352	155	8	0	2581
1982	1	2	77	71	252	433	614	679	403	160	40	10	2742
1983	0	0	7	61	171	382	582	626	381	145	46	0	2401
1984	0	0	20	60	288	531	644	652	376	135	16	12	2734
1985	0	5	51	108	287	460	608	706	408	139	29	0	2801
1986	0	19	24	112	212	480	673	578	464	91	3	0	2656
1987	0	0	6	114	318	442	576	674	370	111	23	0	2634
1988	4	0	28	61	247	467	639	714	433	78	39	1	2711
1989	1	0	45	154	297	393	561	542	314	208	52	0	2567
1990	1	2	30	79	286	575	551	617	457	152	41	2	2793
1991	0	3	42	115	335	484	624	550	324	174	14	5	2670
1992	0	2	4	109	213	437	606	480	386	161	4	13	2415
1993	0	0	19	75	223	507	697	701	406	115	20	4	2767
1994	3	0	50	119	238	578	591	596	350	149	19	1	2694
1995	5	5	44	67	271	456	641	643	374	132	6	12	2656
1996	0	37	27	87	464	531	663	549	302	120	10	2	2792
1997	6	0	12	24	181	423	622	566	461	163	3	0	2461
1998	0	0	45	56	424	623	831	710	563	177	9	9	3447

SNOWFALL (inches) 1998 DALLAS - FORT WORTH, TX (DFW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.8	0.0	0.0	0.0	0.8
1970-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	1.6	0.0	0.0	0.0	1.6
1971-72	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	0.0	T
1972-73	0.0	0.0	0.0	0.0	T	1.4	2.3	T	0.0	0.0	0.0	0.0	3.7
1973-74	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1974-75	0.0	0.0	0.0	0.0	T	T	T	3.7	T	0.0	0.0	0.0	3.7
1975-76	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	T	0.0	0.0	0.0	0.4
1976-77	0.0	0.0	0.0	0.0	5.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	10.4
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	4.1	13.5	T	0.0	0.0	0.0	17.6
1978-79	0.0	0.0	0.0	0.0	0.0	0.8	1.8	0.7	0.0	0.0	0.0	0.0	3.3
1979-80	0.0	0.0	0.0	0.0	0.0	T	0.0	1.6	0.0	0.0	0.0	0.0	1.6
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.8	T	0.0	0.0	0.0	0.0	0.8
1982-83	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	T
1983-84	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	0.0	5.1
1985-86	0.0	0.0	0.0	0.0	0.0	T	0.0	0.8	0.0	0.0	0.0	0.0	0.8
1986-87	0.0	0.0	0.0	0.0	0.0	1.7	T	T	0.5	0.0	0.0	0.0	2.2
1987-88	0.0	0.0	0.0	0.0	0.0	T	0.8	2.7	0.0	0.0	0.0	0.0	3.5
1988-89	0.0	0.0	0.0	0.0	0.0	T	T	0.7	1.1	0.0	T	0.0	1.8
1989-90	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	T	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.6
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1993-94	0.0	0.0	0.0	T	0.3	T	T	0.1	T	T	T	0.0	0.4
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T	T	0.0	T
1995-96	0.0	0.0	0.0	0.0	T	0.0							
1996-97					T	T							
1997-98													
1998-													
POR= 42 YRS	0.0	0.0	0.0	T	0.1	0.2	1.1	0.9	0.2	T	T	0.0	2.5

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REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1998  
DALLAS - FORT WORTH,  
TEXAS (DFW)

The Dallas-Fort Worth Metroplex is located in North Central Texas, approximately 250 miles north of the Gulf of Mexico. It is near the headwaters of the Trinity River, which lie in the upper margins of the Coastal Plain. The rolling hills in the area range from 500 to 800 feet in elevation.

The Dallas-Fort Worth climate is humid subtropical with hot summers. It is also continental, characterized by a wide annual temperature range. Precipitation also varies considerably, ranging from less than 20 to more than 50 inches.

Winters are mild, but northers occur about three times each month, and often are accompanied by sudden drops in temperature. Periods of extreme cold that occasionally occur are short-lived, so that even in January mild weather occurs frequently.

The highest temperatures of summer are associated with fair skies, westerly winds and low humidities. Characteristically, hot spells in summer are broken into three-to-five day periods by thunderstorm activity. There are only a few nights each summer when the low temperature exceeds 80 degrees. Summer daytime temperatures frequently exceed 100 degrees. Air conditioners are recommended for maximum comfort indoors and while traveling via automobile.

Throughout the year, rainfall occurs more frequently during the night. Usually, periods of rainy weather last for only a day or two, and are followed by several days with fair skies. A large part of the annual precipitation results from thunderstorm activity, with occasional heavy rainfall over brief periods of time. Thunderstorms occur throughout the year, but are most frequent in the spring. Hail falls on about two or three days a year, ordinarily with only slight and scattered damage. Windstorms occurring during thunderstorm activity are sometimes destructive. Snowfall is rare.

The average length of the warm season (freeze-free period) in the Dallas-Fort Worth Metroplex is about 249 days. The average last occurrence of 32 degrees or below is mid March and the average first occurrence of 32 degrees or below is in late November.

# STATION LOCATION

DALLAS-FORT WORTH, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											* Type	REMARKS
						SEA LEVEL	GROUND											
							G	W	E	P	S	T	R	W	8	H		
<b>CITY (Fort Worth)</b>																		
Federal Building Jennings Ave., Between 11th and Texas Streets	9/1/98	10/31/34	NA	32°45'	97°20'	615	114	107	106		99							Moves for improved exposure. a - Effective 4/1/1900. b - Effective 6/23/08. c - Effective 1/15/09.
U.S. Courthouse 10th Street between Lamar and Burnett	11/1/34	12/16/39	900 ft. W	32°45'	97°20'	616	110	93	92		85							Observations continued to 1/5/40 except psychrometer to 6/30/39 and extreme thermometers to 12/31/39. Consolidated with office at Meacham Field.
<b>AIRPORT (Forth Worth)</b>																		
Meacham Field 5.5 miles NNW of P.O. No. 1 Hangar	7/22/30	9/11/34	NA	32°49'	97°21'	688	47		4									Established for aviation weather.
CAA Watchhouse Meacham Field	9/11/34	3/6/37	300 ft. NW	32°49'	97°21'	688	47		4									
Administration Building Meacham Field	3/6/37	4/25/53	120 ft. N	32°49'	97°21'	688	37 e78 f56	NA d36 g6 h34 i41	34 d35 g5 h35 i40	NA	NA f34	NA d34	NA	NA k				d - Effective 9/1/37. e - Effective 1/22/38. (Used for Climat records after 10/11/48). f - Effective 1/5/40 to 10/11/48. Extra inst. for Climat records only. g - Moved to ground 10/21/40. h - Moved to roof 9/14/43. i - Effective 2/24/45. (Used only when temp. below 20° after 11/12/48).
Terminal Building Amon Carter Field + + Greater Southwest Int'l Airport ++ (Effective 5/24/63) ++Dallas-Fort Worth Regional Airport (Effective 1/13/74)	4/26/53	8/14/74	17.5 mi. E	32°50'	97°03'	544 m537	85 j22	34	33	NA	NA	32	31	k5	NA			j - Effective 5/23/63. k - Telepsychrometer (4') 11/12/48-6/14/63. Hygro. comm. 3100' E of tele-psychrometer site 6/14/63. m - Effective 6/14/63.
Delta Hangar Dallas-Fort Worth Regional Airport	8/14/74	Present	4.5 mi. NNE	32°54'	97°02'	551	n22	NA	NA	NA q5	4	NA p4	4	5 r5	NA			n - Installed 1/13/74. p - Installed 9/18/74. q - Installed 1/17/79. r - Type change 8/8/80. S ASOS Commissioned 12/01/95

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