

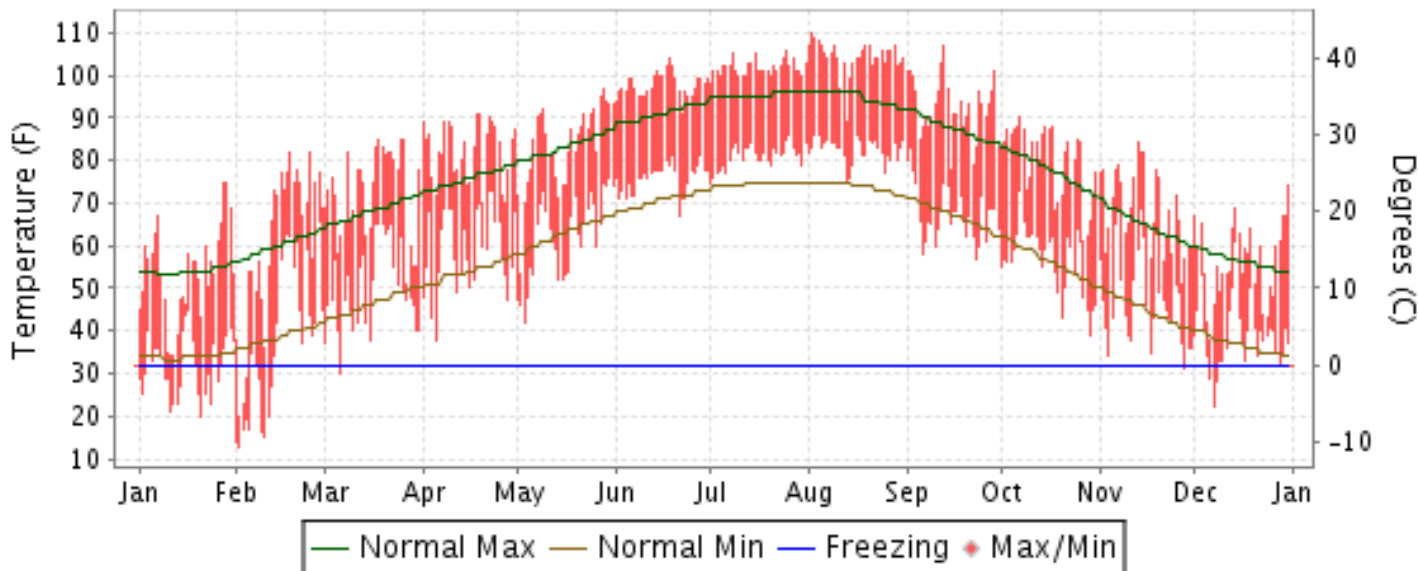


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

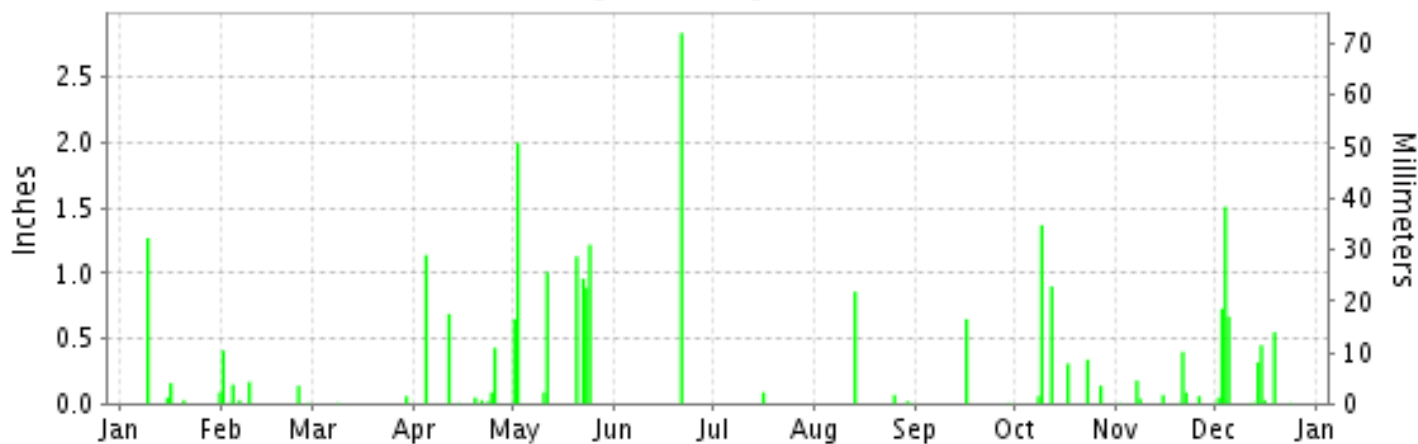
ISSN 0198-5043

DALLAS-FORT WORTH, TEXAS (KDFW)

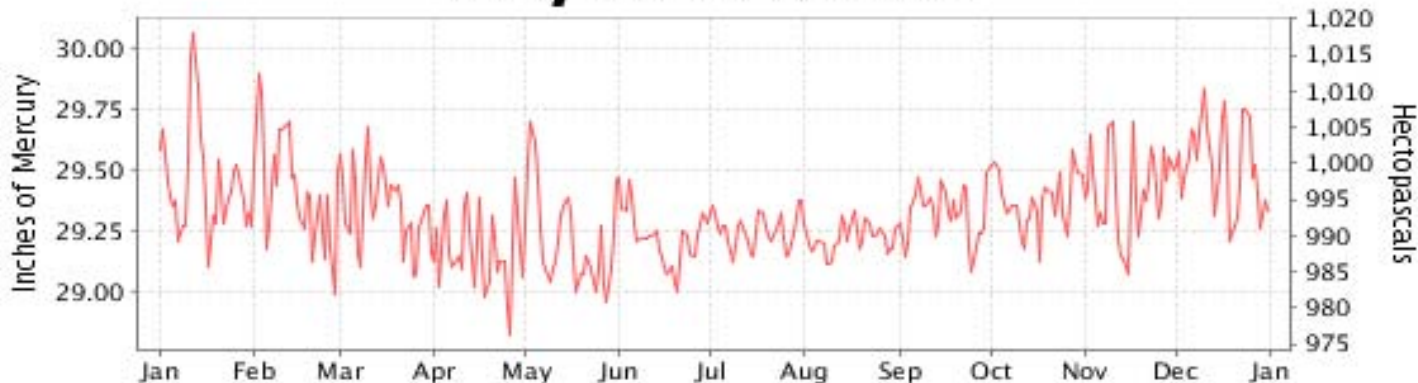
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

DALLAS-FORT WORTH (KDFW)

LATITUDE: 32° 53'N LONGITUDE: -97° 1'W ELEVATION (FT): GRND: 560 BARO: 562 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	53.7	60.9	72.5	82.3	83.5	97.6	101.7	104.3	92.5	79.8	68.4	56.3	79.5	
	HIGHEST DAILY MAXIMUM	75	82	85	91	97	104	106	110	107	90	84	74	110	
	DATE OF OCCURRENCE	29+	24+	26+	19+	28	18	25	02	13	07	13	31	AUG 02	
	MEAN DAILY MINIMUM	31.9	38.1	50.1	59.2	62.1	75.9	81.0	82.5	67.5	56.5	47.4	38.8	57.6	
	LOWEST DAILY MINIMUM	20	13	30	38	42	67	75	75	57	39	31	22	13	
	DATE OF OCCURRENCE	21	02	06	05	03	21	01	13	23	29	28	07	FEB 02	
	AVERAGE DRY BULB	42.8	49.5	61.3	70.8	72.8	86.8	91.4	93.4	80.0	68.2	57.9	47.6	68.5	
	MEAN WET BULB	37.5	43.2	52.8	61.1	64.4	72.6	74.4	73.5	64.0	58.1	51.2	42.6	58.0	
	MEAN DEW POINT	29.5	36.3	44.8	53.5	59.1	65.4	66.3	63.9	52.6	49.9	44.0	36.8	50.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	3	11	30	31	30	22	1	0	0	128	
	MAXIMUM <= 32°	0	3	0	0	0	0	0	0	0	0	0	0	3	
	MINIMUM <= 32°	17	11	1	0	0	0	0	0	0	0	1	4	34	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	681	455	181	23	38	0	0	0	0	59	253	535	2225	
	COOLING DEGREE DAYS	0	28	73	203	289	660	828	887	457	166	49	0	3640	
RH	MEAN (PERCENT)	63	65	59	58	65	51	45	40	42	57	63	70	57	
	HOUR 00 LST	67	70	62	63	69	55	49	42	47	61	67	71	60	
	HOUR 06 LST	77	78	76	75	80	74	64	57	60	74	77	79	73	
	HOUR 12 LST	54	58	52	50	58	42	38	33	33	46	53	63	48	
	HOUR 18 LST	54	53	44	43	50	34	31	28	30	45	54	65	44	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	0	0	0	0	0	0	0	2	2	2	7	
	THUNDERSTORMS	0	2	0	9	8	4	0	3	4	3	3	3	39	
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.)	29.46	29.42	29.36	29.17	29.22	29.23	29.26	29.22	29.32	29.39	29.41	29.53	29.33	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.07	29.99	29.79	29.84	29.84	29.87	29.83	29.94	30.01	30.05	30.17	29.96	
WINDS	RESULTANT SPEED (MPH)	0.9	2.7	5.1	7.9	7.4	11.8	7.6	7.1	2.7	2.1	2.7	1.2	4.1	
	RES. DIR. (TENS OF DEGS.)	33	21	17	18	17	17	17	18	04	17	22	35	18	
	MEAN SPEED (MPH)	8.4	13.0	13.1	14.8	13.7	12.9	9.1	9.0	8.7	9.4	12.1	9.0	11.1	
	PREVAIL.DIR.(TENS OF DEGS.)	34	18	18	18	17	17	17	20	01	18	18	36	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	40	40	45	37	46	26	31	40	36	39	33	46	
	DIR. (TENS OF DEGS.)	35	32	20	15	33	19	16	01	06	32	33	34	19	
	DATE OF OCCURRENCE	20	01	22	23	24	18	29	11	29	17	26	31	JUN 18	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	37	51	47	59	46	53	36	43	51	43	48	40	59	
DIR. (TENS OF DEGS.)	36	32	20	33	17	19	15	01	01	33	32	34	33		
DATE OF OCCURRENCE	20	01	22	15	23	18	29	11	29	17	26	31	APR 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.60	0.92	0.07	2.46	7.95	2.84	0.09	0.96	0.66	3.12	0.86	4.35	25.88	
	GREATEST 24-HOUR (IN.)	1.27	0.41	0.06	1.14	2.61	2.84	0.09	0.86	0.65	1.43	0.49	1.99	2.84	
	DATE OF OCCURRENCE	09	01	29	04	01-02	21	16	13	16	08-09	21-22	03-04	JUN 21	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	5	7	2	8	8	1	1	4	2	6	8	12	64	
PRECIPITATION 0.10	2	4	0	3	7	1	0	1	1	5	2	6	32		
PRECIPITATION 1.00	1	0	0	1	4	1	0	0	0	1	0	1	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.3	4.0	0.0	T	T	T	0.0	0.0	0.0	T	0.0	0.0	4.3	
	GREATEST 24-HOUR (IN.)	0.2	2.6	0.0	T	T	T	0.0	0.0	0.0	T	0.0	0.0	2.6	
	DATE OF OCCURRENCE	09	04		25	24+	21				12			FEB 04	
	MAXIMUM SNOW DEPTH (IN.)	T	3	0	0	0	0	0	0	0	0	0	0	3	
	DATE OF OCCURRENCE	10	04											FEB 04	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	1	0	0	0	0	0	0	0	0	0	0	1		

NORMALS, MEANS, AND EXTREMES DALLAS-FORT WORTH (KDFW)

LATITUDE: 32° 53'N LONGITUDE: -97° 1'W ELEVATION (FT): GRND: 560 BARO: 562 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	60.1	68.3	75.9	83.2	91.1	95.4	94.8	87.7	77.9	65.1	56.5	75.8	
	MEAN DAILY MAXIMUM	69	54.9	59.5	67.9	76.0	83.4	91.4	95.8	96.1	88.3	78.7	66.6	58.0	76.4	
	HIGHEST DAILY MAXIMUM	58	88	95	96	101	103	113	110	110	111	102	89	89	113	
	YEAR OF OCCURRENCE		1969	1996	1991	2006	1985	1980	1998	2011	2000	1979	2005	2005	2005	JUN 1980
	MEAN OF EXTREME MAXS.	69	76.5	80.0	85.1	89.1	94.4	98.7	102.6	103.4	98.6	92.3	83.0	77.5	90.1	
	NORMAL DAILY MINIMUM	30	34.0	38.7	46.4	54.0	63.0	70.7	74.6	74.0	67.2	56.4	45.1	36.8	55.1	
	MEAN DAILY MINIMUM	69	34.2	37.9	45.7	54.4	63.2	70.8	74.7	74.4	67.0	56.4	45.2	37.2	55.1	
	LOWEST DAILY MINIMUM	58	4	7	15	29	41	51	59	56	43	29	20	-1	-1	
	YEAR OF OCCURRENCE		1964	1985	2002	1989	1978	1964	1972	1967	1984	1993	1959	1989	1989	DEC 1989
	MEAN OF EXTREME MINS.	69	16.9	21.7	28.0	38.0	49.9	61.0	68.1	66.5	53.2	40.6	29.1	20.8	41.2	
	NORMAL DRY BULB	30	44.1	49.4	57.4	65.0	73.1	80.9	85.0	84.4	77.5	67.2	55.1	46.7	65.5	
	MEAN DRY BULB	69	44.6	48.7	56.8	65.2	73.3	81.2	85.3	85.3	77.7	67.6	55.9	47.6	65.8	
	MEAN WET BULB	28	38.6	42.4	49.1	56.5	65.2	70.9	72.4	71.7	66.6	57.9	48.8	40.6	56.7	
	MEAN DEW POINT	28	35.6	39.1	45.6	53.1	63.0	69.0	69.7	68.8	63.6	55.1	45.8	37.4	53.8	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.1	0.2	0.8	5.6	20.2	28.2	27.1	15.7	3.0	0.0	0.0	100.9	
	MAXIMUM <= 32	30	1.5	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.6	
MINIMUM <= 32	30	13.5	6.9	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	2.9	10.0	35.6		
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	650	448	248	74	13	0	0	0	2	52	312	571	2370	
	NORMAL COOLING DEG. DAYS	30	3	7	10	72	265	478	621	601	376	118	15	2	2568	
RH	NORMAL (PERCENT)	30	68	67	65	64	70	67	61	59	64	66	69	70	66	
	HOURLY 00 LST	30	74	71	69	71	78	74	67	66	71	73	74	73	72	
	HOURLY 06 LST	30	80	80	79	81	87	86	81	80	83	83	82	80	82	
	HOURLY 12 LST	30	61	58	56	55	59	55	49	49	54	55	58	60	56	
	HOURLY 18 LST	30	59	55	51	51	57	52	45	45	51	55	60	60	53	
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)	48	2.2	1.2	0.9	0.5	0.3	0.1	0.1	0.0	0.1	0.8	1.5	2.1	9.8	
	THUNDERSTORMS	64	1.3	2.0	4.1	5.7	7.6	6.3	4.7	4.7	3.3	3.2	1.9	1.3	46.1	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR															
	PARTLY CLOUDY CLOUDY															
PR	MEAN STATION PRESSURE(IN)	28	29.50	29.45	29.38	29.31	29.29	29.29	29.34	29.31	29.36	29.40	29.44	29.49	29.38	
	MEAN SEA-LEVEL PRES. (IN)	28	30.14	30.09	30.01	29.93	29.90	29.90	29.95	29.95	29.97	30.02	30.07	30.13	30.01	
WINDS	MEAN SPEED (MPH)	28	10.7	11.3	12.2	12.2	11.3	10.5	9.9	8.6	8.7	9.7	10.7	10.4	10.5	
	PREVAIL.DIR(TENS OF DEGS)	15	19	19	17	17	17	17	19	17	17	17	19	19	17	
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	47	51	48	61	52	53	43	47	43	46	43	44	61	
	DIR. (TENS OF DEGS)		31	23	30	25	17	32	32	33	35	23	31	18	25	
	YEAR OF OCCURRENCE		2008	2000	2000	2008	2006	2007	2009	1996	2005	2001	2006	2008	APR 2008	
	MAXIMUM 3-SECOND SPEED (MPH)	16	54	78	74	75	67	64	54	47	51	54	54	48	78	
	DIR. (TENS OF DEGS)		28	23	27	24	15	30	33	34	01	27	31	18	23	
	YEAR OF OCCURRENCE		2008	2000	2000	2008	2006	2009	2009	2002	2011	2004	2006	2008	FEB 2000	
PRECIPITATION	NORMAL (IN)	30	1.90	2.37	3.06	3.20	5.15	3.23	2.12	2.03	2.42	4.11	2.57	2.57	34.73	
	MAXIMUM MONTHLY (IN)	58	5.58	7.40	7.39	12.19	13.66	11.10	11.13	6.85	9.52	14.18	6.95	8.75	14.18	
	YEAR OF OCCURRENCE		2007	1997	2002	1957	1982	2007	1973	1970	1964	1981	2000	1991	OCT 1981	
	MINIMUM MONTHLY (IN)	58	T	0.15	0.07	0.11	0.95	0.34	0.00	0.00	0.09	T	.02	0.17	0.00	
	YEAR OF OCCURRENCE		1986	1963	2011	1987	1996	2006	1993	2000	1984	1975	2005	1981	AUG 2000	
	MAXIMUM IN 24 HOURS (IN)	58	3.46	4.06	4.39	4.55	5.34	3.60	4.01	4.05	5.75	5.91	3.89	4.22	5.91	
	YEAR OF OCCURRENCE		2002	1965	1977	1957	1989	2009	2004	1976	2010	1959	2008	1991	OCT 1959	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	7.2	6.3	7.8	7.1	9.3	7.2	4.3	4.5	5.9	6.7	6.4	6.5	79.2	
PRECIPITATION >= 1.00	30	0.3	0.7	0.8	1.1	1.8	0.8	0.6	0.6	0.8	1.4	0.7	0.6	10.2		
SNOWFALL	NORMAL (IN)	30	0.8	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.2	0.2	2.5	
	MAXIMUM MONTHLY (IN)	50	12.1	13.5	2.5	T	T	T	T	0.0	0.0	T	5.0	3.2	13.5	
	YEAR OF OCCURRENCE		1964	1978	1962	2011	2011	2011	2008			2011	1976	2009	FEB 1978	
	MAXIMUM IN 24 HOURS (IN)	50	12.1	11.2	2.5	T	T	T	T	0.0	0.0	T	4.8	3.0	12.1	
	YEAR OF OCCURRENCE		1964	2010	1962	2011	2011	2011	2008			2011	1976	2009	JAN 1964	
	MAXIMUM SNOW DEPTH (IN)	54	6	11	2	0	0	0	0	0	0	0	3	2	11	
	YEAR OF OCCURRENCE		1964	2010	1971								1976	2009	FEB 2010	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.0		

PRECIPITATION (inches) 2011 DALLAS-FORT WORTH (KDFW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	1.44	0.48	2.84	2.74	6.91	0.99	0.77	T	2.30	2.26	0.31	2.55	23.59
2000	1.59	3.30	2.92	4.28	3.17	5.93	T	0.00	0.16	4.38	6.95	3.57	36.25
2001	2.44	6.17	5.27	0.89	5.58	1.28	3.85	2.72	3.72	1.86	1.11	3.24	38.13
2002	4.90	0.94	7.39	5.68	5.40	3.10	3.07	1.47	1.38	6.44	0.52	4.13	44.42
2003	0.22	3.07	0.85	1.90	2.53	5.17	0.08	1.85	3.99	0.78	3.15	0.96	24.55
2004	3.04	3.84	1.71	2.96	4.73	10.49	4.16	4.24	1.02	5.72	5.01	0.65	47.57
2005	4.33	1.62	2.17	0.56	3.35	1.14	0.74	2.46	1.36	0.89	0.02	0.33	18.97
2006	2.25	3.85	4.40	1.86	1.90	0.34	1.78	0.52	2.60	4.34	2.58	3.33	29.75
2007	5.58	0.43	3.81	2.82	8.34	11.10	5.54	0.35	4.99	3.53	1.22	2.34	50.05
2008	0.27	2.30	6.07	3.85	2.21	0.84	0.81	2.82	0.84	2.29	4.53	0.27	27.10
2009	0.82	0.72	5.56	3.54	4.36	3.98	2.09	1.64	6.52	8.05	1.76	1.85	40.89
2010	2.76	2.83	3.57	2.03	1.09	2.08	3.13	0.41	9.09	1.16	1.50	2.05	31.70
2011	1.60	0.92	0.07	2.46	7.95	2.84	0.09	0.96	0.66	3.12	0.86	4.35	25.88
POR= 69 YRS	2.01	2.24	2.84	3.57	4.83	3.14	2.13	1.97	2.86	3.54	2.28	2.06	33.47

WBAN : 03927

AVERAGE TEMPERATURE (°F) 2011 DALLAS-FORT WORTH (KDFW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	48.6	55.5	56.4	67.9	73.8	82.1	86.1	90.2	79.0	69.2	62.9	51.5	68.6
2000	50.6	57.3	61.0	65.3	76.6	80.7	87.3	90.2	80.4	69.7	49.8	39.4	67.4
2001	42.7	50.2	51.8	67.8	74.2	80.3	86.7	84.9	74.6	65.0	59.7	49.5	65.6
2002	47.6	47.0	54.8	68.4	72.0	80.1	83.2	84.7	79.6	64.9	53.8	47.7	65.3
2003	43.7	45.6	56.2	67.0	75.5	79.0	86.3	86.7	74.5	68.8	59.4	49.7	66.0
2004	48.5	45.8	61.8	66.2	74.4	79.4	83.5	81.5	78.4	72.1	57.1	48.9	66.5
2005	49.6	52.6	56.8	65.5	73.5	83.6	85.1	86.8	83.7	68.8	60.8	48.2	67.9
2006	55.1	49.4	62.2	72.0	78.0	83.7	87.7	89.8	77.6	68.1	57.5	50.0	69.3
2007	42.3	49.4	64.0	62.4	74.6	81.4	83.8	87.8	81.6	72.1	61.3	49.8	67.5
2008	46.9	54.0	61.0	66.5	77.0	86.5	89.0	86.7	78.5	69.6	59.7	49.0	68.7
2009	48.1	55.8	58.9	64.8	73.3	83.8	86.6	85.3	76.2	62.7	59.5	42.7	66.5
2010	44.3	41.7	55.8	66.7	76.9	86.5	85.9	89.8	79.8	68.8	58.5	49.3	67.0
2011	42.8	49.5	61.3	70.8	72.8	86.8	91.4	93.4	80.0	68.2	57.9	47.6	68.5
POR= 69 YRS	44.6	48.7	56.8	65.2	73.3	81.2	85.3	85.3	77.7	67.6	55.9	47.6	65.8

HEATING DEGREE DAYS (base 65°F) 2011 DALLAS-FORT WORTH (KDFW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1998-99	0	0	0	31	226	559	505	266	263	39	3	0	1892
1999-00	0	0	0	44	118	421	447	239	169	77	0	0	1515
2000-01	0	0	12	64	458	785	685	417	402	41	0	0	2864
2001-02	0	0	3	77	191	489	540	501	334	57	12	0	2204
2002-03	0	0	0	101	335	528	652	541	280	51	0	0	2488
2003-04	0	0	0	30	226	468	515	549	140	57	20	0	2005
2004-05	0	0	0	5	230	494	483	357	259	52	24	0	1904
2005-06	0	0	0	65	194	521	304	437	170	6	0	0	1697
2006-07	0	0	0	63	243	466	699	438	109	141	0	0	2159
2007-08	0	0	0	35	188	474	569	331	182	59	3	0	1841
2008-09	0	0	0	38	197	499	526	273	239	95	3	0	1870
2009-10	0	0	0	115	176	681	634	645	288	41	3	0	2583
2010-11	0	0	1	25	233	483	681	455	181	23	38	0	2120
2011-	0	0	0	59	253	535							

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COOLING DEGREE DAYS (base 65°F) 2011 DALLAS-FORT WORTH (KDFW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
1999	4	5	4	134	282	520	662	785	425	181	63	9	3074
2000	7	23	49	93	364	475	698	787	482	215	7	0	3200
2001	0	6	0	134	293	465	682	624	300	86	39	13	2642
2002	5	0	24	166	237	460	570	617	444	103	8	0	2634
2003	0	4	13	115	334	428	666	679	294	152	68	0	2753
2004	11	0	47	100	319	438	577	518	407	232	2	2	2653
2005	10	17	10	75	294	564	628	684	570	189	74	5	3120
2006	5	7	89	223	406	569	711	775	386	165	22	8	3366
2007	0	6	81	68	304	497	588	714	506	261	88	11	3124
2008	15	18	66	111	385	652	753	679	410	190	44	9	3332
2009	10	24	58	95	267	569	674	636	340	52	15	0	2740
2010	0	0	7	99	377	653	657	777	451	149	45	3	3218
2011	0	28	73	203	289	660	828	887	457	166	49	0	3640

SNOWFALL (inches) 2011 DALLAS-FORT WORTH (KDFW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	0.9	1.5	T	0.0	0.0	0.0	2.4
1996-97	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	T	T	T	0.0	0.5	0.0	0.0	0.0	0.5
1998-99	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	1.5	0.0	T	0.0	0.0	0.0	0.0	1.5
2001-02	0.0	0.0	0.0	0.0	T	0.0	T	3.5	0.3	T	0.0	0.0	3.8
2002-03	0.0	0.0	0.0	0.0	0.0	T	1.2	2.0	0.0	0.0	0.0	0.0	3.2
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	2.6
2004-05	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
2005-06	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	T	0.0	0.3	T	0.0	T	0.0	T	0.3
2007-08	0.0	0.0	0.0	0.0	T	0.0	T	0.0	2.1	0.0	T	0.0	2.1
2008-09	T	0.0	0.0	0.0	0.0	T	0.2	T	0.0	0.0	0.0	0.0	0.2
2009-10	0.0	0.0	0.0	0.0	0.0	3.2	T	12.6	1.3	0.0	0.0	0.0	17.1
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.0	0.0	T	T	T	4.3
2011-	0.0	0.0	0.0	T	0.0	0.0							
POR= 68 YRS	T	0.0	0.0	T	0.1	0.2	1.2	1.0	0.2	T	T	T	2.7

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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 (1971 - 2000). 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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011

DALLAS - FORT WORTH

TEXAS (KDFW)

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 History

DALLAS-FORT WORTH, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FORT WORTH GREATER SW INTL AP	1963-06-14	1969-01-01	32° 49'	-97° 3'	574		AIRWAYS, COOP
FORT WORTH AMON CARTER FIELD	1953-04-01	1963-06-14	32° 49'	-97° 3'	574		AIRWAYS, COOP
DALLAS FORT WORTH REGIONAL AP	1991-07-01	1995-12-01	32° 54'	-97° 1'	550		COOP, WXSVC
DALLAS FORT WORTH INTL AP	1995-12-01	2008-10-01	32° 53'	-97° 1'	560		ASOS, COOP
DALLAS FORT WORTH REGIONAL AP	1974-08-14	1975-03-06	32° 54'	-97° 1'	551		WXSVC
FORT WORTH GREATER SW INTL AP	1969-01-01	1974-07-31	32° 49'	-97° 3'	574		COOP, WXSVC
DALLAS FORT WORTH REGIONAL AP	1975-03-06	1991-07-01	32° 54'	-97° 1'	551		COOP, WXSVC
DALLAS FORT WORTH INTL AP	2008-10-01	Present	32° 53'	-97° 1'	560		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	2008-10-01	Present	DAILY	2400	HYGR		
PRECIP	2008-10-01	Present	HOURLY	2400	TB	RCRD	
PRECIP	1982-01-01	1995-07-01	HOURLY	2400			
PRECIP	1982-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-12-01	2008-10-01	DAILY	2400	TB	RCRD	
PRECIP	1995-12-01	2008-10-01	HOURLY	2400	TB	RCRD	
TEMP	1982-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	1995-12-01	DAILY	2400	UNIV	RCRD	
TEMP	1975-03-06	1982-01-01	DAILY	2400	HYGR		
TEMP	1995-07-01	1995-12-01	DAILY	2400	HYGR		
TEMP	1995-12-01	2008-10-01	DAILY	2400	HYGR		
PRECIP	1975-03-06	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-12-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2008-10-01	Present	DAILY	2400	PCPN1		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

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Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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