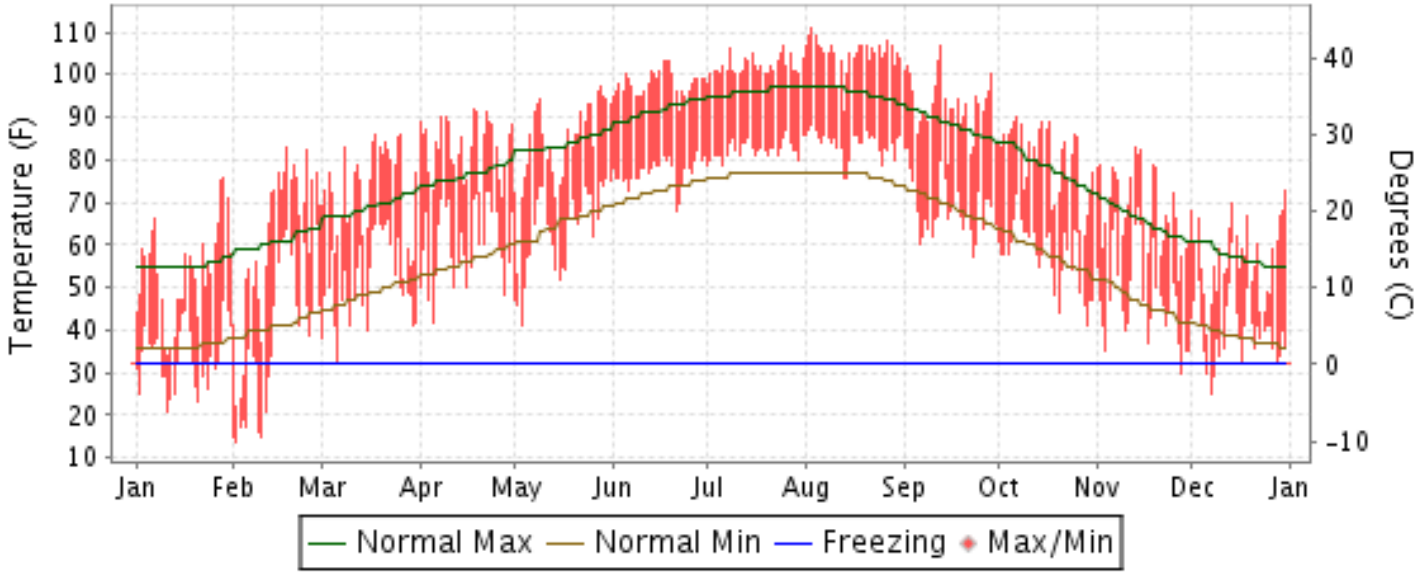
2011
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

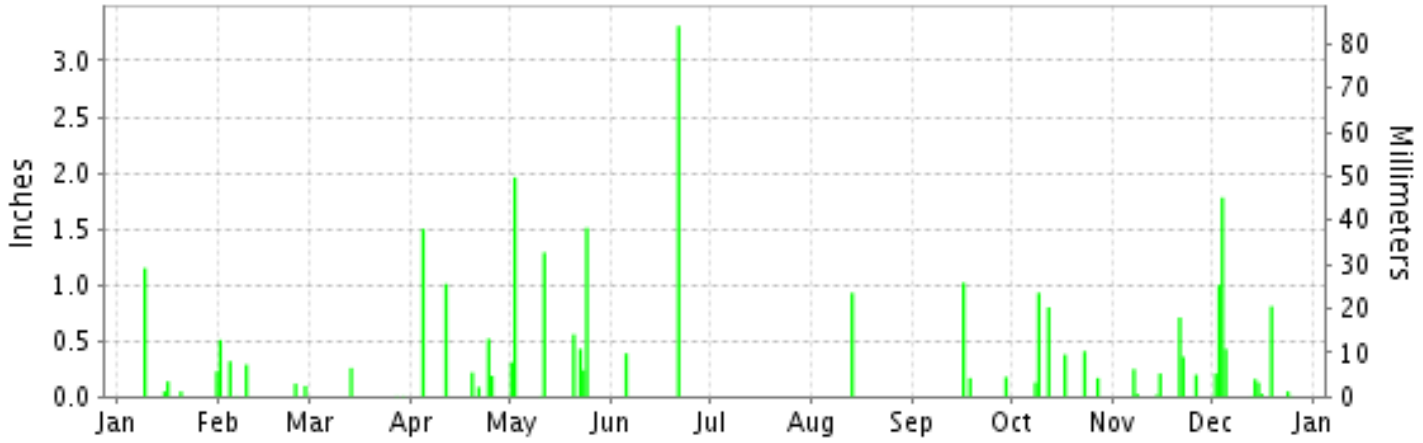
ISSN 1528-7408

DALLAS,
TEXAS (KDAL)

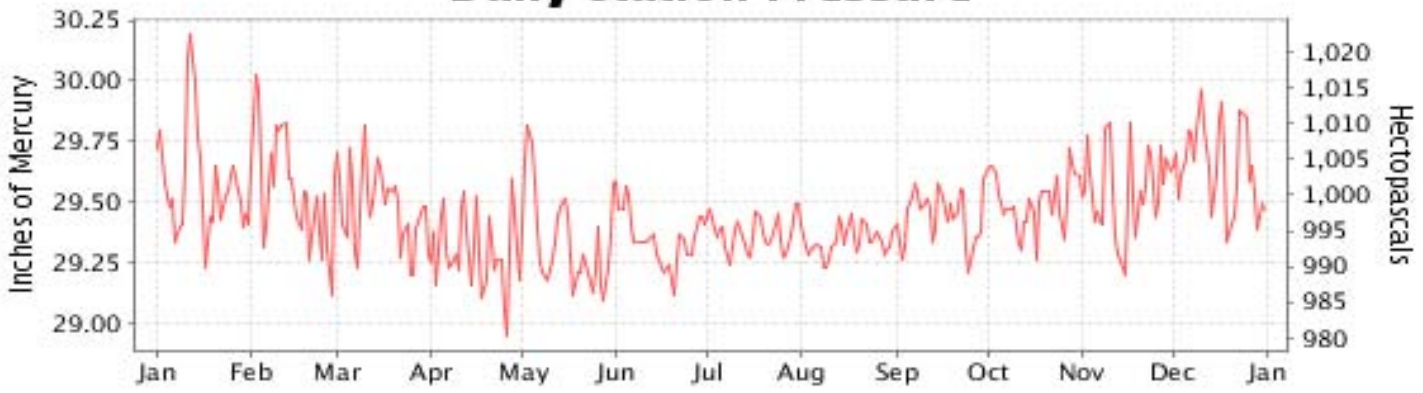
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011
DALLAS (KDAL)

LATITUDE: 32° 51'N **LONGITUDE:** -96° 51'W **ELEVATION (FT):** GRND: 440 BARO: 512 **TIME ZONE:** CENTRAL (UTC -6) **WBAN:** 13960

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	53.7	61.3	72.6	83.1	84.2	97.9	101.9	104.9	92.8	80.1	68.7	56.9	79.8
	HIGHEST DAILY MAXIMUM	76	83	86	92	97	103	107	111	107	90	83	73	111
	DATE OF OCCURRENCE	29	18	26+	18	28	19+	25	03	13	07	13	31	AUG 03
	MEAN DAILY MINIMUM	33.8	39.2	51.7	60.6	63.5	77.3	82.4	83.8	68.6	57.5	48.1	39.7	58.9
	LOWEST DAILY MINIMUM	21	14	33	42	41	68	79	76	57	41	30	25	14
	DATE OF OCCURRENCE	11	02	06	05	03	21	06+	14+	23	29	28	07	FEB 02
	AVERAGE DRY BULB	43.8	50.3	62.2	71.9	73.9	87.6	92.2	94.4	80.7	68.8	58.4	48.3	69.4
	MEAN WET BULB	37.6	43.1	52.7	61.0	64.0	72.2	73.8	73.1	64.2	58.4	51.6	43.0	57.9
	MEAN DEW POINT	28.5	35.2	43.5	52.5	57.5	64.2	64.9	62.7	53.1	50.3	44.5	37.4	49.5
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	5	11	30	31	31	22	1	0	0	131
	MAXIMUM <= 32°	0	3	0	0	0	0	0	0	0	0	0	0	3
	MINIMUM <= 32°	14	9	0	0	0	0	0	0	0	0	1	3	27
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	648	440	163	15	35	0	0	0	0	55	241	509	2106
	COOLING DEGREE DAYS	0	33	84	228	316	687	849	917	480	178	50	1	3823
RH	MEAN (PERCENT)	58	61	54	54	60	48	42	37	42	56	64	70	54
	HOUR 00 LST	63	66	58	58	63	51	44	38	47	63	69	73	58
	HOUR 06 LST	70	71	70	71	74	67	59	53	59	73	79	79	69
	HOUR 12 LST	51	55	49	47	54	41	37	32	33	46	53	63	47
	HOUR 18 LST	50	49	41	41	46	33	29	26	29	43	53	64	42
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	1	2	0	4
	THUNDERSTORMS	0	2	1	8	7	1	0	2	4	3	3	2	33
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.)	29.58	29.55	29.48	29.30	29.35	29.35	29.38	29.34	29.44	29.51	29.54	29.66	29.46
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.08	30.00	29.81	29.85	29.85	29.87	29.84	29.94	30.02	30.06	30.18	29.97
WINDS	RESULTANT SPEED (MPH)	0.7	1.9	5.0	7.2	7.6	10.5	7.2	5.8	2.8	2.6	2.5	0.9	4.1
	RES. DIR. (TENS OF DEGS.)	05	19	17	17	16	17	17	17	07	15	19	09	17
	MEAN SPEED (MPH)	7.0	11.3	11.6	13.0	13.1	11.7	8.6	7.7	7.5	8.2	10.2	8.1	9.8
	PREVAIL.DIR.(TENS OF DEGS.)	35	18	17	17	17	17	17	17	01	13	16	15	17
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	28	33	30	41	39	36	25	33	32	32	33	29	41
	DIR. (TENS OF DEGS.)	34	33	19	14	36	33	15	11	35	02	32	14	14
	DATE OF OCCURRENCE	20	01	22	23	24	21	25	24	29	23	26	19	APR 23
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	38	43	41	52	47	52	35	43	44	44	44	38	52
	DIR. (TENS OF DEGS.)	35	32	19	29	35	33	22	10	35	30	31	33	33
	DATE OF OCCURRENCE	20	01	22	15	24	21	30	24	29	12	02	31	JUN 21
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	1.62	1.35	0.28	3.53	6.31	3.70	T	0.93	1.37	2.82	1.78	4.63	
	GREATEST 24-HOUR (IN.)	1.15	0.51	0.26	1.50	2.26	3.31	T	0.93	1.02	1.03	1.07	2.68	
	DATE OF OCCURRENCE	09	01	13	04	01-02	21	16	13	16	08-09	21-22	03-04	
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	5	6	3	6	8	2	0	1	3	6	7	12	
	PRECIPITATION 0.10	3	5	1	5	7	2	0	1	3	6	5	7	
	PRECIPITATION 1.00	1	0	0	2	3	1	0	0	1	0	0	2	
SNOWFALL	SNOW,ICE PELLETS,HAIL	0.1	6.4	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	6.5
	TOTAL (IN.)	0.1	5.1	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	5.1
	GREATEST 24-HOUR (IN.)	09	04		04	24+							06+	FEB 04
	DATE OF OCCURRENCE	T	5	0	0	0	0	0	0	0	0	0	0	5
	MAXIMUM SNOW DEPTH (IN.)	09	04											FEB 04
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	0	2	0	0	0	0	0	0	0	0	0	0	2

NORMALS, MEANS, AND EXTREMES
DALLAS (KDAL)

LATITUDE: 32° 51'N **LONGITUDE:** -96° 51'W **ELEVATION (FT):** GRND: 440 BARO: 512 **TIME ZONE:** CENTRAL (UTC -6) **WBAN:** 13960

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	55.4	61.0	69.1	76.5	83.8	91.6	96.1	95.8	88.5	78.6	66.0	57.4	76.7
	MEAN DAILY MAXIMUM	30	57.9	56.6	69.4	75.6	84.3	90.4	95.7	96.9	88.7	79.5	67.6	57.5	76.7
	HIGHEST DAILY MAXIMUM	12	83	85	90	100	100	103	107	111	110	93	88	88	111
	YEAR OF OCCURRENCE		2006	2009	2006	2006	2003	2011	2011	2011	2000	2006	2005	2005	AUG 2011
	MEAN OF EXTREME MAXS.	30	76.7	79.1	84.0	89.2	95.5	97.5	102.6	104.5	98.3	91.2	83.0	77.5	89.9
	NORMAL DAILY MINIMUM	30	36.4	41.0	48.5	56.1	64.9	72.7	76.8	76.4	69.2	58.2	46.8	38.6	57.1
	MEAN DAILY MINIMUM	30	35.0	34.7	45.9	53.1	62.8	69.3	74.1	74.3	65.7	54.9	44.6	35.6	54.2
	LOWEST DAILY MINIMUM	12	14	14	17	35	41	61	68	63	49	38	28	16	14
	YEAR OF OCCURRENCE		2010	2011	2002	2003	2011	2004	2004	2004	2000	2008	2006	2005	FEB 2011
	MEAN OF EXTREME MINS.	30	22.5	24.7	31.4	41.2	52.2	64.2	71.5	70.2	56.5	42.5	32.1	24.0	44.4
	NORMAL DRY BULB	30	45.9	51.0	58.8	66.3	74.4	82.2	86.5	86.1	78.9	68.4	56.4	48.0	66.9
	MEAN DRY BULB	30	46.5	45.6	57.7	64.4	73.5	80.1	84.9	85.6	77.3	67.2	56.1	46.6	65.5
	MEAN WET BULB	12	36.8	40.1	47.8	55.9	64.1	69.5	71.1	70.7	65.0	56.5	48.3	38.8	55.4
	MEAN DEW POINT	12	38.1	41.3	48.2	56.3	64.3	70.1	71.3	70.7	64.6	56.6	48.2	38.3	55.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.1	0.3	1.1	6.9	20.5	27.8	26.9	15.9	3.3	0.0	0.0	
	MAXIMUM <= 32	30	1.4	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	
	MINIMUM <= 32	30	11.6	6.3	1.8	*	0.0	0.0	0.0	0.0	0.0	0.1	2.2	8.2	
	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	605	415	238	75	9	0	0	0	7	62	281	527	
	NORMAL COOLING DEG. DAYS	30	2	9	39	110	290	511	659	646	417	162	28	5	
RH	NORMAL (PERCENT)	30													
	HOUR 00 LST	30													
	HOUR 06 LST	30													
	HOUR 12 LST	30													
	HOUR 18 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	12	0.5	0.6	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.5	0.6	0.8	3.8
	THUNDERSTORMS	12	1.2	2.1	3.5	4.9	7.4	6.8	4.3	4.2	3.2	3.9	1.9	1.7	45.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE(IN)	12	29.62	29.57	29.49	29.42	29.40	29.40	29.44	29.43	29.46	29.51	29.56	29.60	29.49
	MEAN SEA-LEVEL PRES. (IN)	12	30.15	30.10	30.01	29.94	29.90	29.91	29.95	29.93	29.96	30.02	30.09	30.13	30.01
WINDS	MEAN SPEED (MPH)	12	8.8	10.1	10.9	11.6	10.9	10.3	8.8	8.2	8.0	8.5	9.0	9.1	9.5
	PREVAIL.DIR(TENS OF DEGS)	6	34	17	17	17	17	17	17	17	13	16	17	17	17
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	12	41	39	38	44	41	58	40	43	46	39	52	36	58
	DIR. (TENS OF DEGS)		31	18	13	01	03	36	11	33	01	31	19	31	36
	YEAR OF OCCURRENCE		2008	2004	2007	2008	2007	2004	2003	2008	2005	2010	2004	2002	JUN 2004
	MAXIMUM 3-SECOND														
	SPEED (MPH)	12	52	48	47	58	49	74	47	64	54	51	76	47	76
	DIR. (TENS OF DEGS)		31	25	29	27	03	01	17	34	01	31	18	31	18
	YEAR OF OCCURRENCE		2008	2007	2000	2008	2007	2004	2006	2008	2005	2010	2004	2009	NOV 2004
PRECIPITATION	NORMAL (IN)	30	1.89	2.31	3.13	3.46	5.30	3.92	2.43	2.17	2.65	4.65	2.61	2.53	37.05
	MAXIMUM MONTHLY (IN)	12	5.03	6.80	8.45	3.85	6.60	9.71	4.13	3.11	9.54	8.32	7.01	5.11	9.71
	YEAR OF OCCURRENCE		2007	2001	2008	2008	2007	2007	2004	2007	2010	2009	2000	2002	JUN 2007
	MINIMUM MONTHLY (IN)	12	0.37	0.51	0.28	1.54	1.32	0.33	T	0.43	1.13	0.71	.06	0.29	0.06
	YEAR OF OCCURRENCE		2008	2007	2011	2007	2010	2008	2011	2010	2005	2010	2005	2008	NOV 2005
	MAXIMUM IN 24 HOURS (IN)	12	3.35	3.93	6.90	1.88	2.82	6.00	T	T	5.65	4.77	3.32	3.36	6.90
	YEAR OF OCCURRENCE		2004	2006	2006	2002	2006	2009	2002	2000	2010	2002	2008	2001	MAR 2006
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	7.2	6.1	7.4	7.2	9.3	7.2	4.7	4.6	5.8	7.1	6.6	6.4	79.6
	PRECIPITATION >= 1.00	30	0.3	0.8	0.9	1.1	2.0	1.5	0.7	0.6	0.8	1.6	0.7	0.8	11.8
SNOWFALL	NORMAL (IN)	30	0.8	0.6	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.8
	MAXIMUM MONTHLY (IN)	8	0.7	8.8	2.2	T	T	0.0	0.0	T	0.0	0.0	0.2	2.2	8.8
	YEAR OF OCCURRENCE		2007	2010	2010	2011	2011		2011				2006	2009	FEB 2010
	MAXIMUM IN 24 HOURS (IN)	8	0.5	7.8	1.4	T	T	0.0	0.0	0.0	0.0	0.0	0.2	1.9	7.8
	YEAR OF OCCURRENCE'		2009	2010	2010	2011	2011						2006	2009	FEB 2010
	MAXIMUM SNOW DEPTH (IN)	8	T	7	T	0	0	0	0	0	0	0	0	T	7
	YEAR OF OCCURRENCE		2009	2010	2010									2006	FEB 2010
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7

PRECIPITATION (inches) 2011 DALLAS (KDAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1999			2.76	2.15	6.98	1.61	1.50	T	1.26	2.57	1.55	4.45	
2000	1.82	1.72	3.55	3.13	2.90	9.71	T	0.00	0.03	5.64	7.01	3.52	39.03
2001	2.16	6.80	4.53	1.29	2.63	1.63	1.84	2.64	3.31	3.07	1.06	4.34	35.30
2002	3.95	0.96	5.18	3.09	5.22	1.46	2.15	1.30	0.65	7.33	0.53	5.11	36.93
2003	0.19	2.81	0.79	1.90	2.23	2.19	0.09	1.39	5.01	0.89	2.90	1.19	21.58
2004	3.65	4.82	1.16	3.48	2.01	7.28	4.13	2.17	1.04	6.04	5.93	1.00	42.71
2005	4.93	1.52	1.82	0.27	3.24	0.57	1.51	1.68	1.13	1.44	0.06	0.40	18.57
2006	2.30	4.35	8.17	1.66	3.33	0.63	0.76	1.63	3.82	5.51	2.27	3.93	38.36
2007	5.03	0.51	5.08	1.54	6.60	9.71	2.37	3.11	6.62	4.77	1.53	1.96	48.83
2008	0.37	1.95	8.45	3.85	3.71	0.33	1.29	2.12	1.41	1.08	3.97	0.29	28.82
2009	1.24	0.62	4.65	3.62	3.61	6.58	3.17	1.43	7.86	8.32	2.38	2.33	45.81
2010	3.27	2.66	3.24	1.86	1.32	3.76	3.11	0.43	9.54	0.71	2.74	1.69	34.33
2011	1.62	1.35	0.28	3.53	6.31	3.70	T	0.93	1.37	2.82	1.78	4.63	28.32
POR= 30 YRS	2.03	2.35	3.37	3.27	3.96	3.83	2.55	2.25	2.87	3.10	2.68	2.68	34.94

WBAN : 13960

AVERAGE TEMPERATURE (°F) 2011 DALLAS (KDAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1999								89.9	79.2	69.2	62.6	51.1	
2000	50.5	57.5	60.6	64.9	77.1	80.3	87.8	90.5	81.1	70.7	50.9	40.7	67.7
2001	44.0	51.6	53.1	68.9	75.8	81.8	88.5	86.3	75.6	65.8	60.6	50.5	66.9
2002	48.3	47.6	55.8	69.6	73.3	81.4	84.8	85.9	80.7	65.4	54.7	48.7	66.4
2003	45.1	46.8	57.4	67.7	76.9	80.1	87.1	87.4	75.3	70.1	59.9	50.2	67.0
2004	49.3	46.6	62.9	67.4	75.4	79.8	84.3	82.3	79.1	72.5	57.4	49.5	67.2
2005	50.7	53.8	57.9	66.4	74.5	84.9	85.7	87.6	84.7	69.6	61.4	48.7	68.8
2006	55.8	50.2	62.7	72.7	77.4	84.2	88.5	90.3	78.3	68.3	58.2	50.8	69.8
2007	42.7	49.9	64.4	63.0	74.3	80.3	82.6	86.6	80.4	70.6	60.4	48.9	67.0
2008	45.9	53.6	59.9	65.8	75.5	84.6	88.0	85.2	76.7	68.2	58.5	47.6	67.5
2009	48.0	56.3	59.4	65.4	73.9	84.4	87.0	85.9	76.7	63.3	60.0	43.3	67.0
2010	45.0	42.5	56.3	67.6	77.5	87.0	86.6	90.9	80.5	69.4	58.8	50.3	67.7
2011	43.8	50.3	62.2	71.9	73.9	87.6	92.2	94.4	80.7	68.8	58.4	48.3	69.4
POR= 30 YRS	46.5	45.6	57.7	64.4	73.5	80.1	84.9	85.6	77.3	67.2	56.2	46.6	65.5

HEATING DEGREE DAYS (base 65°F) 2011 DALLAS (KDAL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1998-99									270	44	2	0	
1999-00	0	0	0	47	122	430	447	233	170	82	0	0	1531
2000-01	0	0	10	59	425	745	645	378	364	35	0	0	2661
2001-02	0	0	1	70	178	461	518	482	310	48	6	0	2074
2002-03	0	0	0	89	315	498	610	506	249	45	0	0	2312
2003-04	0	0	0	18	212	451	489	529	111	48	15	0	1873
2004-05	0	0	0	5	223	478	452	330	232	36	20	0	1776
2005-06	0	0	0	56	184	506	281	412	160	7	0	0	1606
2006-07	0	0	0	60	224	446	683	424	99	131	0	0	2067
2007-08	0	0	0	50	205	498	593	341	205	71	6	0	1969
2008-09	0	0	0	49	225	539	528	259	233	87	2	0	1922
2009-10	0	0	0	101	161	665	613	623	270	36	2	0	2471
2010-11	0	0	0	21	225	455	648	440	163	15	35	0	2002
2011-	0	0	0	55	241	509							

WBAN : 13960

COOLING DEGREE DAYS (base 65°F) 2011 DALLAS (KDAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1999			4	146	274	507	643	778	431	186	57	9	
2000	4	23	39	87	383	464	711	797	499	242	8	0	3257
2001	0	8	1	159	341	508	736	665	330	99	52	16	2915
2002	7	1	28	190	275	496	624	653	476	113	11	0	2874
2003	0	3	21	133	378	459	693	703	315	182	68	0	2955
2004	10	0	52	128	344	450	604	545	431	248	5	4	2821
2005	14	21	18	85	321	606	650	706	597	205	82	7	3312
2006	7	6	98	246	391	584	738	793	406	168	25	17	3479
2007	0	7	88	78	295	467	552	678	468	231	72	5	2941
2008	11	14	54	101	338	595	720	633	355	156	37	7	3021
2009	7	22	68	105	284	591	690	654	359	53	20	0	2853
2010	0	0	7	120	398	665	677	809	473	161	46	4	3360
2011	0	33	84	228	316	687	849	917	480	178	50	1	3823

SNOWFALL (inches) 2011 DALLAS (KDAL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2003-04							0.0	3.6	0.0	0.0	0.0	0.0	
2004-05	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
2005-06	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
2006-07	0.0	0.0	0.0	0.0	0.2	0.0	0.7	T	T	T	T	0.0	0.9
2007-08	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.4	0.0	0.0	0.0	0.4
2008-09	0.0	0.0	0.0	0.0	0.0	T	0.5	0.0	0.0	0.0	0.0	0.0	0.5
2009-10	0.0	0.0	0.0	0.0	0.0	2.2	T	8.8	2.2	0.0	0.0	0.0	13.2
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.4	0.0	T	T	0.0	6.5
2011-	0.0	0.0	0.0	0.0	0.0	T							
POR= 23 YRS	0.0	0.0	0.0	0.0	T	0.5	0.8	1.4	0.1	T	T	0.0	2.8

WBAN : 13960

REFERENCE NOTES :

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).

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).

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.

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 EIGHTS(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.

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.

2011
DALLAS
TEXAS (KDAL)

No Narrative.

Station History

DALLAS, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
DALLAS LOVE FIELD	1974-07-31	1982-01-01	32° 51'	-96° 51'	522		AIRWAYS,COOP
DALLAS LOVE FIELD	1982-01-01	1990-05-18	32° 51'	-96° 51'	440		AIRWAYS,COOP
DALLAS LOVE FIELD	1930-04-01	1941-01-01	32° 51'	-96° 52'			WXSVC
DALLAS LOVE FIELD	1941-01-01	1946-08-01	32° 51'	-96° 51'			WXSVC
DALLAS LOVE FIELD	1997-11-19	2008-10-01	32° 51'	-96° 51'	440		AIRWAYS,ASOS,COOP
DALLAS LOVE FIELD	1990-05-18	1997-11-19	32° 51'	-96° 51'	440		COOP,WXSVC
DALLAS LOVE FIELD	1946-08-01	1958-01-01	32° 51'	-96° 51'	502		COOP,WXSVC
DALLAS LOVE FIELD	2008-10-01	Present	32° 51'	-96° 51'	440		ASOS,COOP
DALLAS LOVE FIELD	1974-07-01	1974-07-31	32° 51'	-96° 51'	522		AIRWAYS,COOP,WXSVC
DALLAS LOVE FIELD	1958-01-01	1974-07-01	32° 51'	-96° 51'	522		COOP,WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1999-05-01	2008-10-01	HOURLY	2400	TB	RCRD	
TEMP	2008-10-01	2009-08-21	DAILY	2400	HYGR		
TEMP	2009-08-21	Present	DAILY	2400	HYGR		
PRECIP	1990-05-01	1995-07-01	DAILY	2400	SRG		ROOF
PRECIP	1995-07-01	1997-11-19	HOURLY	2400	F&P	RCRD	
PRECIP	1975-07-01	1990-05-01	HOURLY	2400			
PRECIP	2008-10-01	2009-08-21	DAILY	2400	PCPN1		
PRECIP	2009-08-21	Present	DAILY	2400	PCPNX		
PRECIP	1973-03-01	1975-07-01	DAILY	2400	SRG		ROOF
TEMP	1973-03-01	1975-07-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	1997-11-19	DAILY	2400	SRG		ROOF
PRECIP	1997-11-19	1999-05-01	DAILY	2400	TB	RCRD	
TEMP	1930-04-01	1973-03-01	DAILY	2400	HYGR		
PRECIP	1975-07-01	1990-05-01	DAILY	2400	SRG		ROOF
TEMP	1975-07-01	1990-05-01	DAILY	2400	HYGR		
TEMP	1990-05-01	1995-07-01	DAILY	2400	MXMN		
TEMP	1995-07-01	1997-11-19	DAILY	2400	MXMN		
TEMP	1997-11-19	1999-05-01	DAILY	2400	HYGR		
PRECIP	1930-04-01	1973-03-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1999-05-01	2008-10-01	DAILY	2400	TB	RCRD	
PRECIP	2008-10-01	2009-08-21	HOURLY	2400	TB	RCRD	
PRECIP	1990-05-01	1995-07-01	HOURLY	2400			
PRECIP	1997-11-19	1999-05-01	HOURLY	2400	F&P	RCRD	
TEMP	1999-05-01	2008-10-01	DAILY	2400	HYGR		
PRECIP	2009-08-21	Present	HOURLY	2400	TB	RCRD	

* For explanation of codes and abbrevitions 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
Fax Number : (828) 271-4876
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