

2003

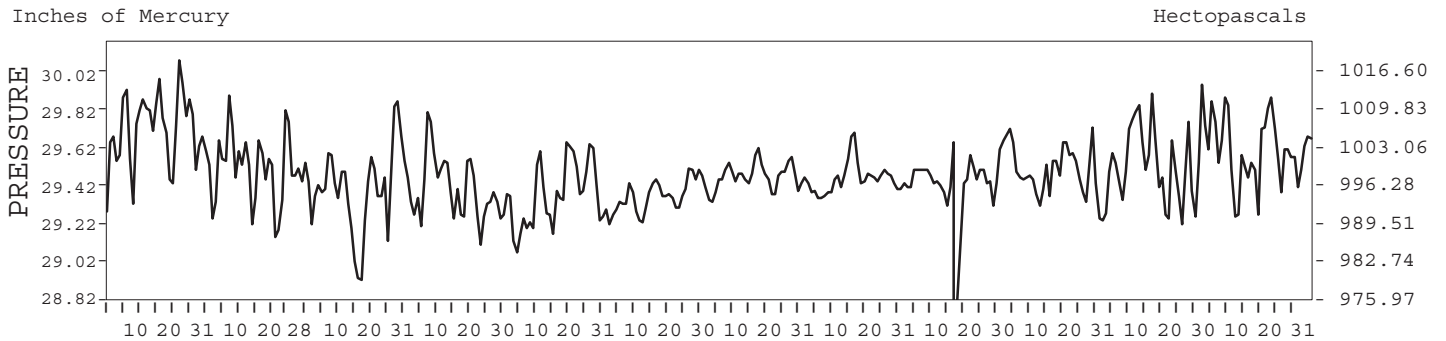
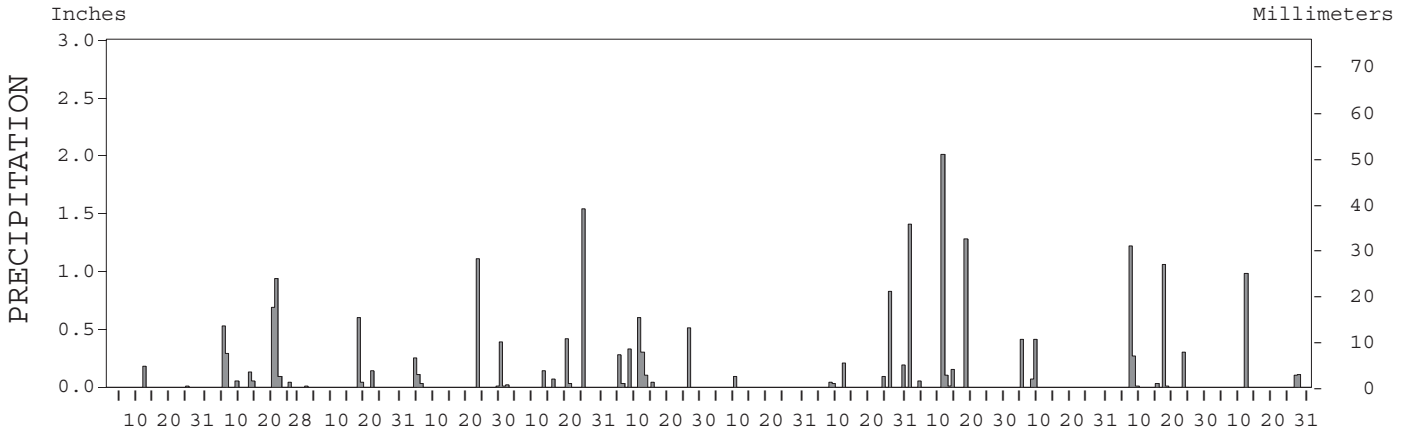
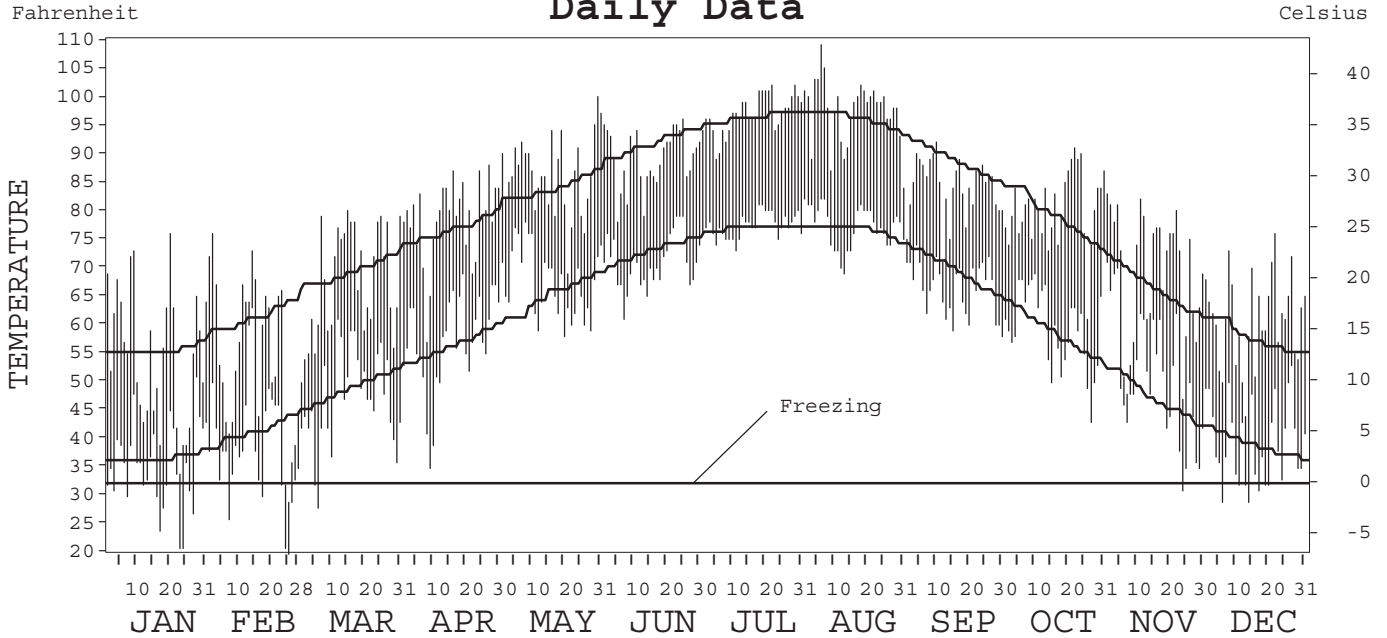
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 1528-7408

DALLAS,  
TEXAS (DAL)

Daily Data



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*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2003

## DALLAS, TX (DAL)

LATITUDE: 32° 50' 49" N      LONGITUDE: 96° 51' 05" W      ELEVATION (FT): GRND: 509      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	54.7	54.8	67.7	78.4	86.3	89.2	96.9	97.6	84.1	80.4	68.9	61.0	76.7
	HIGHEST DAILY MAXIMUM	76	76	80	88	100	96	102	109	92	91	83	76	109
	DATE OF OCCURRENCE	20	02	15	27	30	25	29+	06	10	22	01	22	AUG 06
	MEAN DAILY MINIMUM	35.4	38.8	47.1	57.0	67.5	70.9	77.3	77.2	66.4	59.7	50.9	39.3	57.3
	LOWEST DAILY MINIMUM	21	20	28	35	58	61	73	69	58	43	31	29	20
	DATE OF OCCURRENCE	23+	25	06	09	20	07	11	13	30	27	24	14+	FEB 25
	AVERAGE DRY BULB	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
	MEAN WET BULB	40.4	43.6	51.8	59.3	69.2	71.8	75.1	75.2		62.5	53.8	43.6	
	MEAN DEW POINT	34.1	39.7	46.9	52.4	65.1	68.0	70.0	70.1		57.0	47.7	34.5	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 90°	0	0	0	0	11	16	30	27	3	2	0	0	0	89
MAXIMUM ≤ 32°	0	2	0	0	0	0	0	0	0	0	0	0	0	2
MINIMUM ≤ 32°	12	6	2	0	0	0	0	0	0	0	1	7	28	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	610	506	249	45	0	0	0	0	0	18	212	451	2091
	COOLING DEGREE DAYS	0	3	21	133	378	459	693	703	315	182	68	0	2955
RH	MEAN (PERCENT)	69	80	73	60	70	69	60	61	66	67	68	58	67
	HOUR 00 LST	74	84	77	67	78	75	67	67	72	75	72	65	73
	HOUR 06 LST	81	89	86	80	86	86	81	78	82	83	82	73	82
	HOUR 12 LST	61	72	65	50	63	60	50	52	59	55	59	48	58
	HOUR 18 LST	61	73	60	46	57	57	45	47	53	53	61	45	55
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	0	0	0	0	0	1	0	1	0	2
	THUNDERSTORMS	0	1	1	7	6	7	5	9	2	1	1	0	40
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.)	29.72	29.52	29.41	29.41	29.37	29.37	29.47	29.46		29.49	29.57	29.61	
	MEAN SEA-LEVEL PRESS. (IN.)	30.25		29.92	29.92	29.88	29.87	29.97	29.96		29.99	30.08	30.13	
WINDS	RESULTANT SPEED (MPH)	0.5	0.5	2.0	5.3	1.9	1.8	1.6	3.3		1.1	3.2	3.0	
	RES. DIR. (TENS OF DEGS.)	32	02	19	16	13	13	14	14		14	18	19	
	MEAN SPEED (MPH)	8.8	10.5	9.6	11.8	9.5	8.7	9.0	7.4	7.4	7.3	10.1	10.7	9.2
	PREVAIL. DIR. (TENS OF DEGS.)	36	35	17	19	18	07	18	17	16	18	17	17	18
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	35	33	29	40	30	35	40	36	25	28	32	35	40
	DIR. (TENS OF DEGS.)	33	32	34	14	09	30	11	13	32	18	17	32	11
	DATE OF OCCURRENCE	16	23	28	15	24+	11	10	11	11+	29+	22	09	JUL 10
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	41	39	35	46	38	44	46	40	32	36	39	47	47
DIR. (TENS OF DEGS.)	32	31	34	16	10	03	11	13	32	02	19	31	31	
DATE OF OCCURRENCE	16	23	28+	15	24	12+	10	11	11	25	22	09	DEC 09	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	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
	GREATEST 24-HOUR (IN.)	0.18	1.02	0.60	1.11	1.54	0.64	0.09	0.83	2.08	0.48	1.23	0.98	2.08
	DATE OF OCCURRENCE	12	21-22	18	23	25	11-12	10	26	11-12	08-09	07-08	12	SEP 11-12
	NUMBER OF DAYS WITH:													
PRECIPITATION ≥ 0.01	2	9	4	6	7	8	1	6	7	3	7	3	63	
PRECIPITATION ≥ 0.10	1	5	2	4	3	6	0	3	5	2	4	3	38	
PRECIPITATION ≥ 1.00	0	0	0	1	1	0	0	0	3	0	2	0	7	
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, TX (DAL)

LATITUDE: 32° 50' 49" N      LONGITUDE: 96° 51' 05" W      ELEVATION (FT): GRND: 509      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	4	56.7	60.9	66.5	77.2	85.2	89.8	96.5	97.4	88.1	77.0	65.6	56.8	76.5
	HIGHEST DAILY MAXIMUM	4	80	81	86	92	100	97	104	109	110	93	86	80	110
	YEAR OF OCCURRENCE		2000	2000	2002	2002	2003	2001	2000	2003	2000	2002	2002	1999	SEP 2000
	MEAN OF EXTREME MAXS.	4	75.5	77.0	81.5	88.0	95.7	95.5	102.5	103.9	96.7	89.2	81.2	71.3	88.2
	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	4	37.1	40.8	47.0	58.3	66.4	71.9	77.7	77.9	68.3	58.6	48.1	38.7	57.6
	LOWEST DAILY MINIMUM	4	19	20	17	35	50	61	69	69	49	39	29	21	17
	YEAR OF OCCURRENCE		2002	2003	2002	2003	2002	2003	2001	2003	2000	2000	2001	2000	MAR 2002
	MEAN OF EXTREME MINS.	4	21.2	24.3	29.5	41.5	54.2	63.0	71.0	70.7	54.5	42.2	30.2	26.0	44.0
	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	4	47.0	50.9	56.7	67.8	75.8	80.9	87.1	88.0	78.3	68.2	57.7	48.2	67.2
	MEAN WET BULB	4	42.0	46.0	50.9	61.0	68.2	72.3	75.0	74.6	68.2	60.4	51.6	43.1	59.4
	MEAN DEW POINT	4	35.4	39.9	45.2	55.5	63.9	68.2	69.6	68.4	62.0	54.7	45.4	36.3	53.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	0	0.0	0.1	0.3	1.1	6.9	20.5	27.8	26.9	15.9	3.3	0.0	0.0	102.8
MAXIMUM ≤ 32°	0	1.4	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.2	
MINIMUM ≤ 32°	0	11.6	6.3	1.8	*	0.0	0.0	0.0	0.0	0.0	0.1	2.2	8.2	30.2	
MINIMUM ≤ 0°	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	605	415	238	75	9	0	0	0	7	62	281	527	2219
	NORMAL COOLING DEG. DAYS	30	2	9	39	110	290	511	659	646	417	162	28	5	2878
RH	NORMAL (PERCENT)														
	HOUR 00 LST														
	HOUR 06 LST														
	HOUR 12 LST														
	HOUR 18 LST														
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	0.0	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.4	1.0	2.5
	THUNDERSTORMS	4	1.5	2.7	4.0	6.0	8.0	7.0	2.8	4.2	3.2	3.8	1.4	2.2	46.8
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE (IN)	4	29.63	29.59	29.46	29.45	29.39	29.42	29.45	29.44	29.43	29.54	29.58	29.60	29.50
	MEAN SEA-LEVEL PRES. (IN)	4	30.17	30.15	29.99	29.97	29.91	29.92	29.96	29.95	29.95	30.05	30.10	30.14	30.02
WINDS	MEAN SPEED (MPH)	4	9.0	10.2	10.1	11.5	11.2	9.9	9.1	8.3	8.1	8.7	8.6	9.4	9.5
	PREVAIL. DIR (TENS OF DEGS)														
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	35	38	37	40	37	38	40	36	32	36	32	36	40
	DIR. (TENS OF DEGS)		33	19	32	14	02	35	11	13	02	14	17	31	11
	YEAR OF OCCURRENCE		2003	2001	2002	2003	2001	2002	2003	2003	2001	2000	2003	2002	JUL 2003
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	41	47	47	46	47	44	46	46	48	43	39	47	48	
DIR. (TENS OF DEGS)		32	18	29	16	29	03	11	01	32	14	19	31	32	
YEAR OF OCCURRENCE		2003	2001	2000	2003	2000	2003	2003	2002	2001	2000	2003	2003	SEP 2001	
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)	4	3.95	6.80	5.18	3.13	5.22	9.71	2.15	2.64	5.01	7.33	7.01	5.11	9.71
	YEAR OF OCCURRENCE		2002	2001	2002	2000	2002	2000	2002	2001	2003	2002	2000	2002	JUN 2000
	MINIMUM MONTHLY (IN)	4	2.55	3.81	2.86	1.88	2.48	3.32	T	0.83	1.44	0.89	1.65	1.19	T
	YEAR OF OCCURRENCE		2003	2003	2003	2001	2003	2003	2003	2003	2002	2003	2002	2003	JUL 2003
	MAXIMUM IN 24 HOURS (IN)	4	2.55	3.81	2.86	1.88	2.48	3.32	T	T	2.08	4.77	1.65	3.36	4.77
	YEAR OF OCCURRENCE		2002	2001	2002	2002	2002	2000	2002	2000	2003	2002	2000	2001	OCT 2002
	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)														
	YEAR OF OCCURRENCE														
	MAXIMUM IN 24 HOURS (IN)														
	YEAR OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN)														
YEAR OF OCCURRENCE															
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) 2003 DALLAS, TX (DAL)

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
POR= 4 YRS	2.04	3.09	3.37	2.33	4.00	3.33	1.13	1.35	2.06	3.91	2.63	3.74	32.98

WBAN : 13960

AVERAGE TEMPERATURE (°F) 2003 DALLAS, TX (DAL)

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
POR= 4 YRS	47.0	50.9	56.7	67.8	75.8	80.9	87.1	88.0	78.4	68.3	57.8	48.2	67.2

HEATING DEGREE DAYS (base 65°F) 2003 DALLAS, TX (DAL)

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-	0	0	0	18	212	451							

WBAN : 13960

COOLING DEGREE DAYS (base 65°F) 2003 DALLAS, TX (DAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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

SNOWFALL (inches) 2003 DALLAS, TX (DAL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
POR=													

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.

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.

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.

2003  
DALLAS,  
TEXAS (DAL)

No Narrative.

# STATION LOCATION

DALLAS, TEXAS

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE  M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS	
						GROUND												
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE RAIN GAUGE	8 INCH RAIN GAUGE			HYGROMETER
Dallas Love Field	11/19/97	Present	NA	32°50'	96°51'	a509											S	ASOS Commissioned 11/19/97. a. Ground elevation.

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