

2001

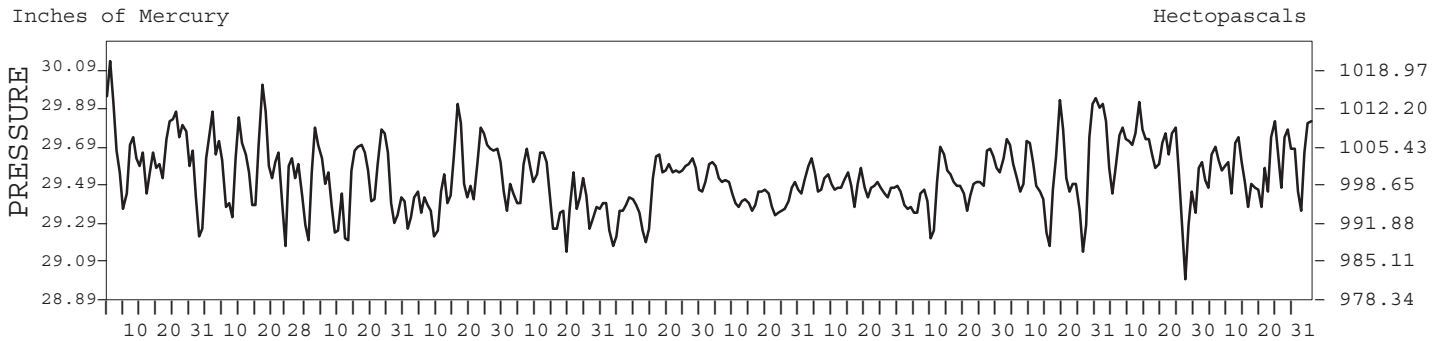
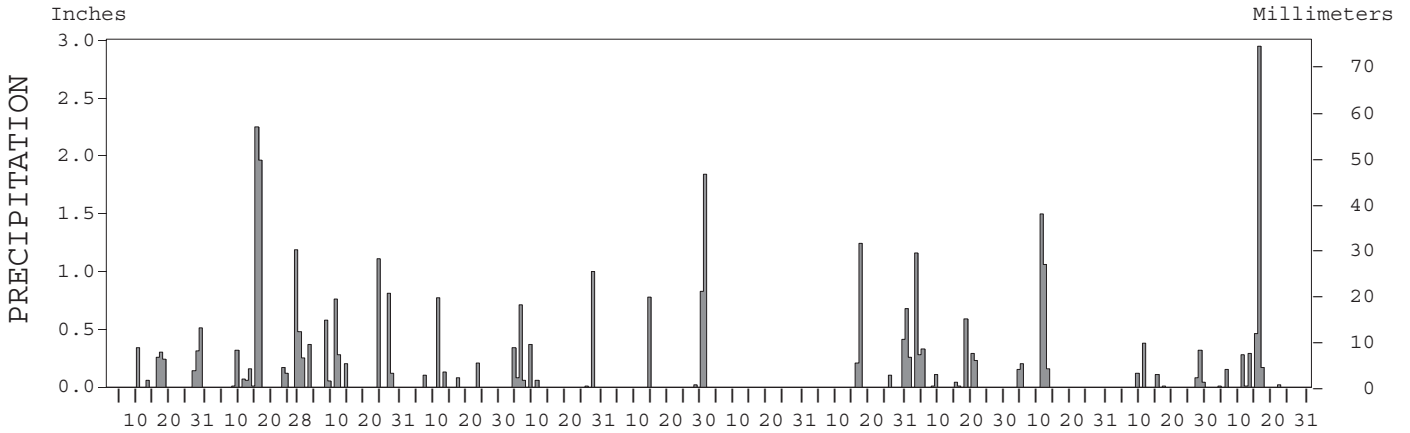
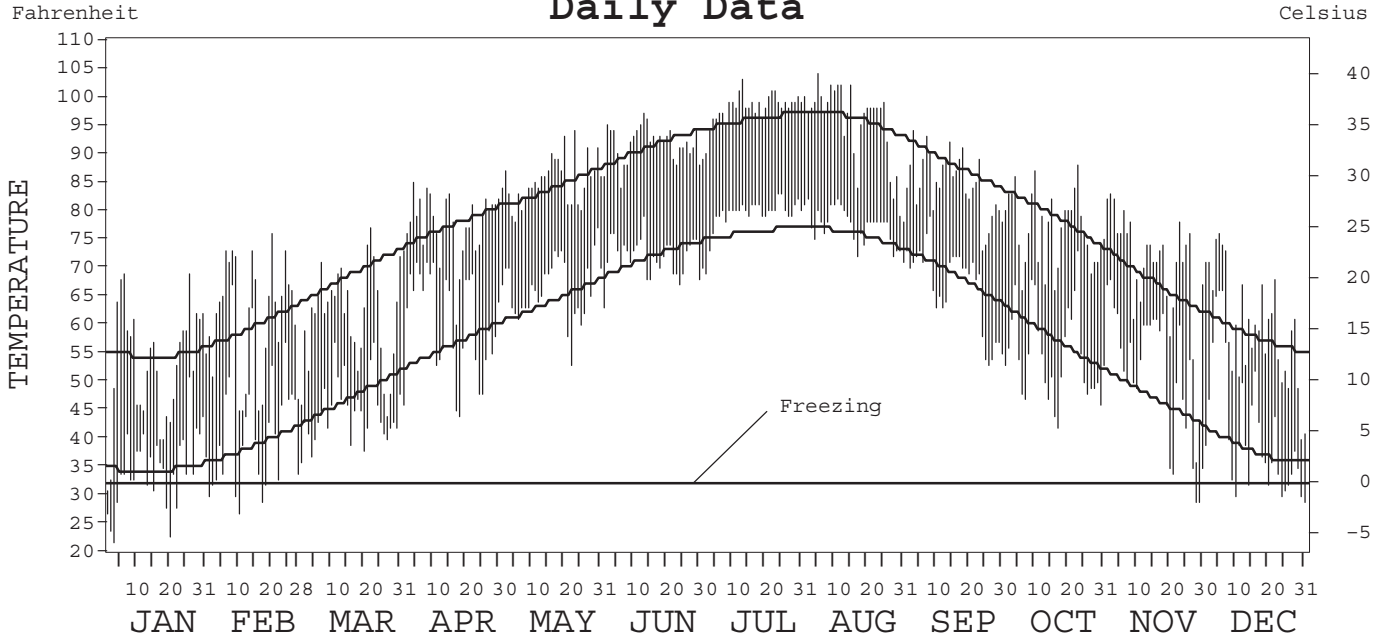
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 1528-7408

DALLAS,
TEXAS (DAL)

Daily Data



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION,
AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

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 2001

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	53.2	61.4	61.4	77.6	85.2	91.6	97.8	95.2	84.6	76.8	69.6	59.7	76.2	
	HIGHEST DAILY MAXIMUM	69	76	77	85	94	97	103	104	94	88	83	76	104	
	DATE OF OCCURRENCE	26+	20	22	04	23	13	13	05	03	23	02	05	AUG 05	
	MEAN DAILY MINIMUM	34.8	41.8	44.8	60.1	66.3	71.9	79.1	77.3	66.6	54.7	51.6	41.3	57.5	
	LOWEST DAILY MINIMUM	22	27	36	44	53	63	69	71	53	42	29	29	22	
	DATE OF OCCURRENCE	03	10	01	18	22	01	02	31	26	17	29+	31	JAN 03	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	40.7	47.5	47.8	62.6	67.7	71.7	76.0	74.7	68.5	58.4	54.2	45.5	59.6	
	MEAN DEW POINT	36.6	43.3	42.1	57.5	62.8	66.7	70.4	69.5	64.6	52.4	48.7	38.6	54.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	5	23	30	25	5	0	0	0	88	
	MAXIMUM ≤ 32°	1	0	0	0	0	0	0	0	0	0	0	0	1	
	MINIMUM ≤ 32°	9	6	0	0	0	0	0	0	0	0	2	8	25	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	645	378	364	35	0	0	0	0	1	70	178	461	2132	
	COOLING DEGREE DAYS	0	8	1	159	341	508	736	665	330	99	52	16	2915	
RH	MEAN (PERCENT)	78	77	69	68	67	62	58	62	73	65	69	67	68	
	HOUR 00 LST	80	79	74	74	74	71	64	65	82	72	74	70	73	
	HOUR 06 LST	89	88	82	83	83	81	76	79	90	83	84	80	83	
	HOUR 12 LST	71	74	60	59	57	53	48	54	61	53	61	55	59	
	HOUR 18 LST	68	67	60	56	53	48	44	49	58	51	59	57	56	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	2	0	1	0	0	0	0	0	1	0	1	5	
	THUNDERSTORMS	1	7	4	4	7	3	1	6	8	5	1	2	49	
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.)	29.63	29.58	29.48	29.50	29.42	29.43	29.44	29.47	29.48	29.56	29.59	29.58	29.51	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	30.14	30.03	30.00	29.93	29.94	29.93	29.97	29.99	30.07	30.10	30.10	30.03	
WINDS	RESULTANT SPEED (MPH)	1.1	2.1	1.4	6.0	3.4	5.7	3.0	4.2	3.3	5.8	2.6	0.9	2.9	
	RES. DIR. (TENS OF DEGS.)	08	15	07	15	17	14	09	17	13	16	16	15	15	
	MEAN SPEED (MPH)	8.2	10.2	8.1	11.4	10.8	10.7	9.7	8.3	7.4	9.9	8.8	8.6	9.3	
	PREVAIL. DIR. (TENS OF DEGS.)	13	16	16	18	17	16	16	18	12	16	16	16	16	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	26	38	36	36	37	32	28	30	32	29	26	26	38	
	DIR. (TENS OF DEGS.)	34	19	33	18	02	30	12	11	02	35	28	16	19	
	DATE OF OCCURRENCE	07	09	15	22+	28	14	01	06	20+	15	23	21	FEB 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	35	47	46	44	46	40	31	37	48	38	38	32	48	
DIR. (TENS OF DEGS.)	03	18	32	18	02	31	12	11	32	35	30	17	32		
DATE OF OCCURRENCE	07	09	15	22	28	14	01	06	18	15	23	22+	SEP 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.81	3.81	1.11	0.77	1.00	0.83	1.84	1.24	1.44	1.51	0.40	3.36	3.81	
	DATE OF OCCURRENCE	28-29	15-16	24	11	28	30	01	17	03-04	11-12	27-28	15-16	FEB 15-16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	8	12	10	5	8	3	1	5	11	5	7	9	84	
PRECIPITATION ≥ 0.10	7	8	9	4	4	2	1	5	8	5	4	6	63		
PRECIPITATION ≥ 1.00	0	3	1	0	1	0	1	1	1	2	0	1	11		
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	54.6	59.5	68.5	77.1	83.7	91.1	95.7	95.6	87.7	78.4	66.9	57.7	76.4	
	MEAN DAILY MAXIMUM	2	56.6	64.9	65.9	76.1	85.9	89.8	97.6	98.1	88.6	77.8	64.2	54.2	76.6	
	HIGHEST DAILY MAXIMUM	2	80	81	83	87	96	97	104	106	110	93	85	80	110	
	YEAR OF OCCURRENCE		2000	2000	2000	2000	2000	2001	2000	2000	2000	2000	1999	1999	1999	SEP 2000
	MEAN OF EXTREME MAXS.	2	74.5	78.5	80.0	86.0	95.0	96.0	103.5	103.5	97.9	87.3	79.1	68.8	87.5	
	NORMAL DAILY MINIMUM	30	34.5	38.6	47.0	56.2	64.0	71.7	76.0	75.5	68.3	57.1	46.6	37.7	56.1	
	MEAN DAILY MINIMUM	2	37.9	44.1	47.8	57.6	66.9	72.2	78.7	78.8	68.3	58.2	48.5	38.3	58.1	
	LOWEST DAILY MINIMUM	2	22	27	36	41	53	62	69	71	49	39	29	21	21	
	YEAR OF OCCURRENCE		2001	2001	2001	2000	2001	2000	2001	2001	2000	2000	2001	2000	2001	DEC 2000
	MEAN OF EXTREME MINS.	2	22.5	28.0	36.5	42.5	54.5	62.5	70.0	72.0	51.0	40.5	29.5	25.0	44.5	
	NORMAL DRY BULB	30	44.6	49.1	57.8	66.7	73.9	81.5	85.9	85.5	78.0	67.8	56.8	47.7	66.3	
	MEAN DRY BULB	2	47.2	54.5	56.8	66.9	76.4	81.1	88.2	88.9	78.6	68.5	58.1	47.4	67.7	
	MEAN WET BULB	2	42.4	49.8	51.3	60.6	68.4	72.5	74.8	74.3	67.8	60.0	52.3	42.4	59.7	
	MEAN DEW POINT	2	36.3	44.8	45.9	55.3	63.8	68.4	68.6	67.4	61.5	53.6	46.6	35.7	54.0	
	NORMAL NO. DAYS WITH: MAXIMUM ≥ 90° MAXIMUM ≤ 32° MINIMUM ≤ 32° MINIMUM ≤ 0°															
H/C	NORMAL HEATING DEG. DAYS	30	639	453	265	61	0	0	0	0	0	39	260	542	2259	
	NORMAL COOLING DEG. DAYS	30	7	8	42	112	279	495	648	636	390	126	14	6	2763	
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)	2	0.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.0	3.1	
	THUNDERSTORMS	2	1.0	5.0	5.5	6.0	7.5	7.5	0.5	2.7	4.3	4.7	2.0	2.7	49.4	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR															
	PARTLY CLOUDY CLOUDY															
PR	MEAN STATION PRESSURE (IN)	2	29.61	29.57	29.45	29.47	29.38	29.43	29.42	29.44	29.44	29.56	29.57	29.61	29.50	
	MEAN SEA-LEVEL PRES. (IN)	2	30.17	30.12	30.01	30.00	29.90	29.95	29.94	29.95	29.96	30.08	30.11	30.16	30.03	
WINDS	MEAN SPEED (MPH)	2	8.9	10.4	9.3	11.2	11.8	10.5	9.6	8.3	8.5	9.4	8.3	9.2	9.6	
	PREVAIL. DIR (TENS OF DEGS)															
	MAXIMUM 2-MINUTE: SPEED (MPH)	2	34	38	36	36	37	33	28	30	32	36	30	36	38	
	DIR. (TENS OF DEGS)		30	19	33	18	02	16	12	11	02	14	01	33	19	
	YEAR OF OCCURRENCE		2000	2001	2001	2001	2001	2000	2001	2001	2001	2000	1999	2000	FEB 2001	
	MAXIMUM 5-SECOND: SPEED (MPH)	2	41	47	47	44	47	40	35	37	48	43	38	45	48	
DIR. (TENS OF DEGS)		30	18	29	18	29	31	02	11	32	14	30	33	32		
YEAR OF OCCURRENCE		2000	2001	2000	2001	2000	2001	2000	2001	2001	2000	2001	2000	SEP 2001		
PRECIPITATION	NORMAL (IN)	30	1.76	2.32	3.22	3.87	5.04	3.51	2.37	2.30	3.57	3.85	2.37	1.90	36.08	
	MAXIMUM MONTHLY (IN)	2	2.16	6.80	4.53	3.13	2.90	9.71	1.84	2.64	3.31	5.64	7.01	4.45	9.71	
	YEAR OF OCCURRENCE		2001	2001	2001	2000	2000	2000	2001	2001	2000	2000	2000	1999	JUN 2000	
	MINIMUM MONTHLY (IN)	2	0.92	3.81	1.52	1.05	1.64	3.32	T	1.24	0.88	2.38	1.06	2.88	T	
	YEAR OF OCCURRENCE		2000	2000	2000	2001	2001	2001	2001	2001	2000	1999	2001	2000	JUL 2001	
	MAXIMUM IN 24 HOURS (IN)	2	0.92	3.81	1.52	1.05	1.64	3.32	T	T	1.44	2.38	1.65	3.36	3.81	
	YEAR OF OCCURRENCE		2000	2001	2000	2000	2000	2000	T	2000	2001	2000	2000	2001	FEB 2001	
NORMAL NO. DAYS WITH: PRECIPITATION ≥ 0.01 PRECIPITATION ≥ 1.00																
SNOWFALL	NORMAL (IN)															
	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																

PRECIPITATION (inches) 2001 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
POR= 2 YRS	2.00	4.27	3.62	2.20	4.18	4.32	1.12	1.33	1.54	3.77	3.22	4.11	35.68

WBAN : 13960

AVERAGE TEMPERATURE (°F) 2001 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
POR= 2 YRS	47.3	54.6	56.9	66.9	76.5	81.1	88.2	88.9	78.7	68.6	58.1	47.4	67.8

HEATING DEGREE DAYS (base 65°F) 2001 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-	0	0	1	70	178	461							

WBAN : 13960

COOLING DEGREE DAYS (base 65°F) 2001 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

SNOWFALL (inches) 2001 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 (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.

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.

2001
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	WEIGHING RAIN GAGE		
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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