

2003

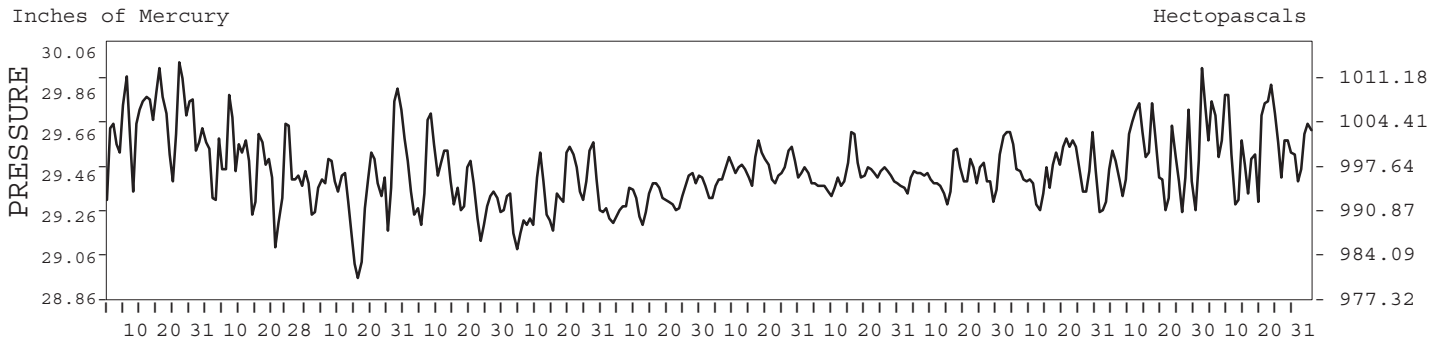
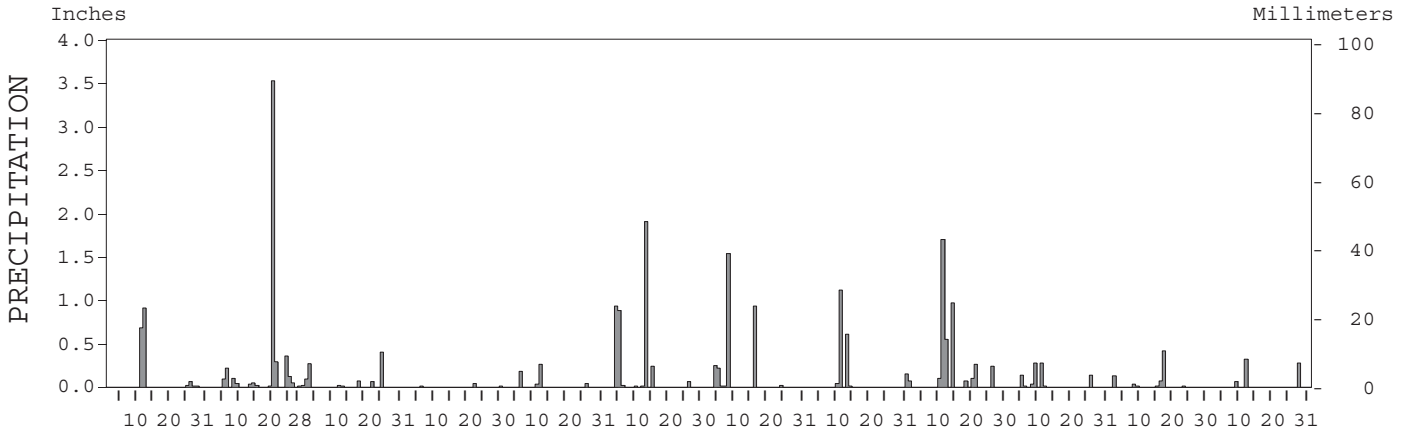
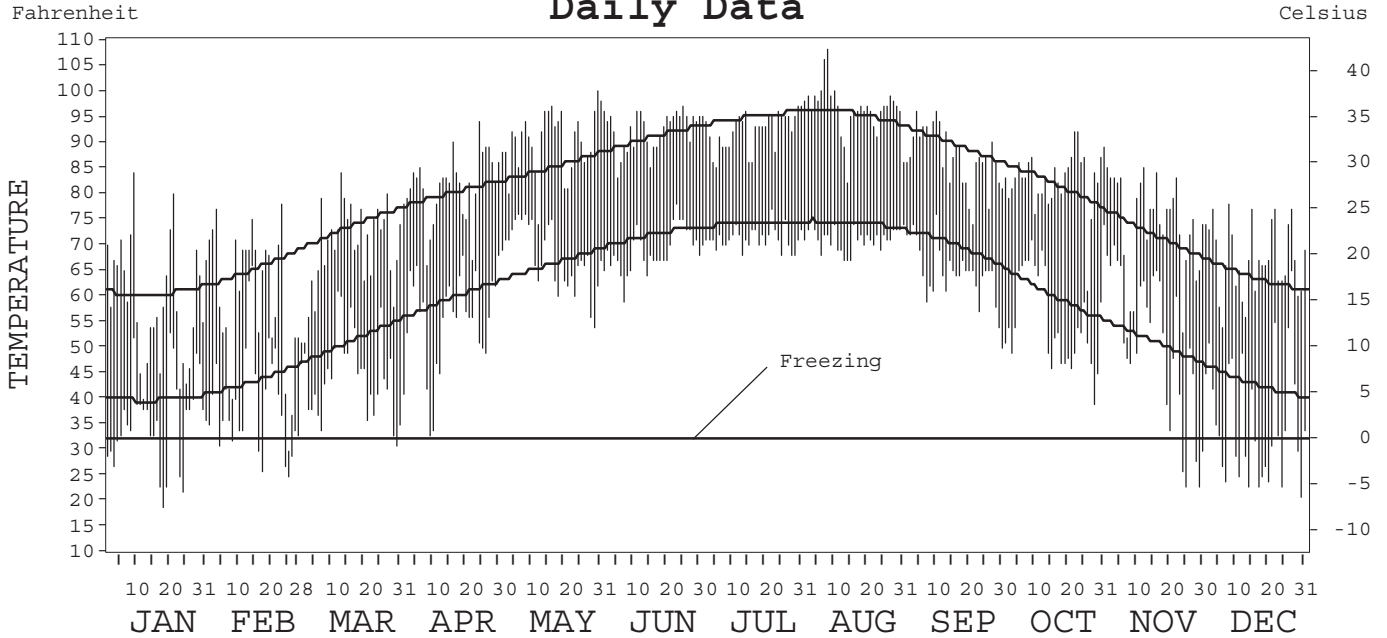
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 1528-7467

AUSTIN/BERGSTROM,
TEXAS (AUS)

Daily Data



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METEOROLOGICAL DATA FOR 2003

AUSTIN/BERGSTROM, TX (AUS)

LATITUDE: 30° 10' 46" N LONGITUDE: 97° 40' 50" W ELEVATION (FT): GRND: 658 BARO: 661 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13904

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.9	59.8	69.3	81.3	90.0	92.3	92.4	96.3	87.1	82.7	73.6	67.3	79.2	
	HIGHEST DAILY MAXIMUM	84	78	84	94	100	97	97	108	96	92	85	78	108	
	DATE OF OCCURRENCE	09	23	13	24	30	25	31+	08	10+	23+	12+	08	AUG 08	
	MEAN DAILY MINIMUM	35.8	39.5	44.5	55.3	67.6	68.8	71.2	71.2	64.6	55.7	50.5	35.6	55.0	
	LOWEST DAILY MINIMUM	10	25	31	33	54	59	68	67	50	39	23	21	10	
	DATE OF OCCURRENCE	27	25	30	09	29	07	29+	15+	30	28	29+	30	JAN 27	
	AVERAGE DRY BULB	47.4	49.7	56.9	68.3	78.8	80.6	81.8	83.8	75.9	69.2	62.1	51.5	67.2	
	MEAN WET BULB	43.2	47.4	53.8	62.2	71.0	73.3	74.8	74.2	69.1	63.1	56.4	45.8	61.2	
	MEAN DEW POINT	38.2	44.8	50.0	57.2	67.4	70.1	71.9	70.2	65.7	59.3	50.9	37.9	57.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	18	22	23	28	11	2	0	0	0	106
	MAXIMUM ≤ 32°	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	MINIMUM ≤ 32°	9	7	1	0	0	0	0	0	0	0	5	15	37	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	543	430	255	46	0	0	0	0	0	21	178	421	1894	
	COOLING DEGREE DAYS	3	7	13	152	435	472	529	588	333	162	98	7	2799	
RH	MEAN (PERCENT)	75	84	79	71	72	73	76	69	75	76	72	64	74	
	HOUR 00 LST	82	89	88	85	83	88	89	81	89	89	80	75	85	
	HOUR 06 LST	86	93	91	91	91	95	95	93	93	94	84	80	90	
	HOUR 12 LST	66	80	69	57	58	57	59	50	59	55	57	45	59	
	HOUR 18 LST	65	72	62	53	55	54	59	49	56	64	64	50	59	
S	PERCENT POSSIBLE SUNSHINE	56	30	53	62	62	77	71	82	69	67	43	64	61	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	5	5	3	0	1	3	0	2	1	1	2	26	
	THUNDERSTORMS	1	3	2	1	3	7	4	4	3	3	1	1	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.)	29.72	29.50	29.41	29.41	29.36	29.35	29.48	29.46	29.47	29.48	29.56	29.62	29.49	
	MEAN SEA-LEVEL PRESS. (IN.)	30.27	30.04	29.93	29.93	29.86	29.85	29.98	29.95	29.97	29.99	30.09	30.15	30.00	
WINDS	RESULTANT SPEED (MPH)	2.3	2.0	0.1	4.3	3.3	1.8	2.9	2.8	1.7	0.4	1.1	1.3	0.7	
	RES. DIR. (TENS OF DEGS.)	35	36	16	13	04	11	18	17	08	21	19	22	12	
	MEAN SPEED (MPH)	8.4	9.6	7.6	9.4	9.3	7.5	6.7	6.6	5.5	6.3	9.0	8.3	7.9	
	PREVAIL. DIR. (TENS OF DEGS.)	01	36	17	16	18	18	18	19	15	19	19	16	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	32	28	31	26	37	33	31	33	30	30	31	37	
	DIR. (TENS OF DEGS.)	34	13	01	13	35	12	08	03	01	01	17	19	12	
	DATE OF OCCURRENCE	16	14	28	15	20	13	23	09	11	14	22	15+	JUN 13	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	40	41	36	38	32	48	38	38	39	36	38	41	48	
DIR. (TENS OF DEGS.)	33	11	22	36	33	30	08	05	01	36	30	30	30		
DATE OF OCCURRENCE	16	14	19	08	20	13	23	11	11	25+	18	09	JUN 13		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.69	4.92	0.94	0.06	0.51	4.06	2.98	1.93	4.06	0.89	0.68	0.66	23.38	
	GREATEST 24-HOUR (IN.)	1.28	3.54	0.40	0.04	0.26	1.91	1.54	1.12	2.25	0.30	0.42	0.32	3.54	
	DATE OF OCCURRENCE	11-12	19-20	25	22	12	13	08	11	11-12	08-09	17	12	FEB 19-20	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	6	14	8	3	4	8	7	5	9	7	7	3	81	
PRECIPITATION ≥ 0.10	2	6	2	0	2	4	4	3	7	4	2	2	38		
PRECIPITATION ≥ 1.00	0	1	0	0	0	1	1	1	1	0	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	0.0	0.8	T	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.8	
	GREATEST 24-HOUR (IN.)	0.0	0.4	T	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
	DATE OF OCCURRENCE		24+	25			13							FEB 24+	
	MAXIMUM SNOW DEPTH (IN.)	0	T	T	0	0	0	0	0	0	0	0	0	T	
	DATE OF OCCURRENCE		25+	25										MAR 25	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES

AUSTIN/BERGSTROM, TX (AUS)

LATITUDE: 30° 10' 46" N LONGITUDE: 97° 40' 50" W ELEVATION (FT): GRND: 658 BARO: 661 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13904

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	58.9	64.1	71.4	77.8	84.3	89.9	94.0	94.0	89.7	80.8	69.7	61.3	78.0
	MEAN DAILY MAXIMUM	4	61.8	65.4	69.8	80.9	88.4	92.0	94.5	97.4	90.4	80.7	71.4	63.3	79.7
	HIGHEST DAILY MAXIMUM	62	89	101	98	99	102	109	106	108	112	98	90	91	112
	YEAR OF OCCURRENCE		1971	1996	1991	1951	1998	1998	1978	2003	2000	1991	1989	1955	SEP 2000
	MEAN OF EXTREME MAXS.	4	81.5	80.2	84.5	93.0	95.5	96.2	99.4	104.6	99.8	93.4	85.2	78.2	91.0
	NORMAL DAILY MINIMUM	30	37.3	41.0	48.4	56.3	65.1	70.2	71.5	70.3	65.3	56.3	45.9	38.2	55.5
	MEAN DAILY MINIMUM	4	37.1	40.3	45.8	58.0	65.8	69.8	71.7	71.1	64.6	56.0	46.1	36.6	55.2
	LOWEST DAILY MINIMUM	62	-5	8	17	31	44	56	62	60	45	33	20	6	-5
	YEAR OF OCCURRENCE		1949	1951	2002	1999	1992	1984	1970	1967	2000	1980	1976	1989	JAN 1949
	MEAN OF EXTREME MINS.	4	15.8	22.8	27.5	37.7	50.5	59.8	67.2	66.0	48.2	39.4	27.6	22.4	40.4
	NORMAL DRY BULB	30	50.1	54.1	62.1	69.6	75.5	81.1	84.3	84.4	79.3	70.4	61.0	52.9	68.7
	MEAN DRY BULB	4	49.5	52.9	57.9	69.4	77.1	80.9	83.1	84.3	77.6	68.4	58.7	50.0	67.5
	MEAN WET BULB	14	44.3	48.2	54.1	61.8	68.5	73.1	74.2	74.1	69.7	61.9	53.8	45.9	60.8
	MEAN DEW POINT	14	38.4	42.5	47.9	57.2	65.5	70.0	69.7	69.3	64.8	56.5	48.3	39.3	55.8
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	*	0.3	0.6	1.6	7.2	20.8	28.0	28.2	18.2	4.4	0.0	0.0	109.3	
MAXIMUM ≤ 32°	30	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	
MINIMUM ≤ 32°	30	6.6	3.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	*	0.8	4.9	16.6	
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	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	532	360	180	45	5	0	0	0	1	38	248	480	1889
	NORMAL COOLING DEG. DAYS	30	8	11	23	107	307	453	551	532	377	148	32	8	2557
RH	NORMAL (PERCENT)	30	67	66	64	66	71	70	65	64	68	67	69	68	67
	HOUR 00 LST	30	72	72	71	74	81	80	75	73	78	75	76	73	75
	HOUR 06 LST	30	78	80	80	82	88	89	88	86	86	84	82	80	84
	HOUR 12 LST	30	60	59	56	57	60	56	51	50	55	55	58	59	56
	HOUR 18 LST	30	57	52	49	52	57	53	47	46	54	54	58	58	53
S	PERCENT POSSIBLE SUNSHINE	61	49	51	55	54	56	69	75	74	66	63	56	49	60
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY ≤ 1/4 MI)	4	3.0	2.5	2.5	1.3	1.0	0.5	1.4	0.4	0.8	1.8	3.4	2.8	21.4
	THUNDERSTORMS	62	1.0	2.0	3.1	4.9	6.9	5.0	4.2	4.8	4.9	3.1	2.0	1.1	43.0
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE (IN)	4	29.62	29.58	29.43	29.44	29.39	29.39	29.45	29.43	29.41	29.49	29.56	29.59	29.48
	MEAN SEA-LEVEL PRES. (IN)	4	30.18	30.12	29.97	29.97	29.90	29.91	29.97	29.94	29.94	30.02	30.11	30.14	30.01
WINDS	MEAN SPEED (MPH)	14	7.3	7.6	8.3	7.6	7.7	6.5	6.3	6.0	6.1	6.1	7.1	7.2	7.0
	PREVAIL. DIR (TENS OF DEGS)														
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	31	35	39	33	35	38	38	36	40	33	46	38	46
	DIR. (TENS OF DEGS)		34	01	01	12	34	01	09	13	03	33	25	18	25
	YEAR OF OCCURRENCE		2003	2002	2000	2001	2000	2002	2002	2000	2000	2002	2001	2002	NOV 2001
	MAXIMUM 5-SECOND:														
SPEED (MPH)	62	73	59	73	60	78	80	62	66	63	55	62	76	80	
DIR. (TENS OF DEGS)		29	23	20	25	32	29	11	36	02	24	24	34	29	
YEAR OF OCCURRENCE		1953	1956	1953	1991	1965	1949	1984	1949	1958	2001	2001	1947	JUN 1949	
PRECIPITATION	NORMAL (IN)	30	2.20	1.73	1.98	2.77	5.87	3.38	1.61	1.48	2.63	2.70	2.61	2.39	31.35
	MAXIMUM MONTHLY (IN)	62	10.53	7.34	6.52	12.18	13.69	15.59	9.77	8.91	9.36	13.08	12.49	12.88	15.59
	YEAR OF OCCURRENCE		1991	1958	1983	1967	1965	1981	1979	1966	1986	1960	1974	1991	JUN 1981
	MINIMUM MONTHLY (IN)	62	0.02	0.02	0.05	0.03	0.28	T	0.00	T	0.02	0.00	T	0.01	0.00
	YEAR OF OCCURRENCE		1971	1999	1972	1984	1949	1967	1947	1993	1989	1952	1970	1950	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	62	5.01	3.90	2.55	4.50	8.53	5.73	3.96	5.93	5.97	6.85	8.70	4.81	8.70
	YEAR OF OCCURRENCE		1991	1958	1980	1969	1974	1981	1961	1966	1986	1998	1974	1953	NOV 1974
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	7.7	7.0	7.9	7.2	9.5	7.5	5.1	5.2	7.2	7.4	8.2	7.9	87.8	
PRECIPITATION ≥ 1.00	30	0.3	0.3	0.5	0.7	1.6	1.3	0.5	0.7	0.8	1.2	0.7	0.7	9.3	
SNOWFALL	NORMAL (IN)	30	0.4	0.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	T	0.8
	MAXIMUM MONTHLY (IN)	62	6.8	5.0	0.6	0.0	T	T	0.0	0.0	0.0	T	2.0	0.6	6.8
	YEAR OF OCCURRENCE		1985	1966	1965		2001	2001				2002	1955	1946	JAN 1985
	MAXIMUM IN 24 HOURS (IN)	62	5.5	4.0	0.6	0.0	T	T	0.0	0.0	0.0	T	2.0	0.6	5.5
	YEAR OF OCCURRENCE		1949	1967	1965		2001	2001				2002	1955	1946	JAN 1949
	MAXIMUM SNOW DEPTH (IN)	62	6	5	T	0	0	0	0	0	0	T	T	T	6
	YEAR OF OCCURRENCE		1949	1963	1948								1980	1990	JAN 1949
	NORMAL NO. DAYS WITH: SNOWFALL ≥ 1.0	30	0.1	0.2	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4

PRECIPITATION (inches) 2003 AUSTIN/BERGSTROM, TX (AUS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	3.86	0.09	1.35	1.64	10.48	0.30	0.87	7.79	2.02	3.24	12.49	2.34	46.47
1975	1.12	2.89	0.68	4.35	8.19	4.90	2.15	4.19	1.31	3.46	0.48	2.25	35.97
1976	0.76	0.22	5.91	7.97	7.39	0.85	3.76	0.30	3.35	6.99	2.71	2.30	42.51
1977	2.18	3.31	2.02	5.07	1.04	1.79	0.07	0.10	1.66	1.62	2.23	0.33	21.42
1978	1.30	2.19	1.01	1.61	2.80	2.78	0.55	2.52	4.77	1.22	6.64	3.79	31.18
1979	2.48	3.95	3.79	3.36	4.88	1.54	9.77	1.21	1.97	0.43	0.80	4.03	38.21
1980	1.63	1.66	3.04	2.39	6.53	0.84	0.06	1.54	4.14	0.75	3.01	1.67	27.26
1981	1.81	1.39	2.27	1.02	7.05	15.59	1.96	1.42	2.48	6.39	0.77	0.31	42.46
1982	1.19	0.89	1.53	3.18	7.29	2.88	0.12	1.67	2.24	2.75	4.81	1.94	30.49
1983	2.22	3.95	6.52	0.23	5.71	3.47	2.52	3.86	4.53	3.31	2.17	0.58	39.07
1984	1.76	1.61	2.64	0.03	1.19	3.03	2.86	1.38	0.84	9.30	1.91	3.05	29.60
1985	1.79	1.85	2.18	2.81	1.37	8.29	3.37	0.05	3.20	4.72	6.59	0.96	37.18
1986	0.61	1.16	0.26	1.18	8.17	3.04	0.02	1.28	9.36	9.11	1.72	5.96	41.87
1987	1.04	3.51	2.07	0.91	8.29	8.13	2.81	0.25	2.14	0.21	3.11	1.27	33.74
1988	0.60	0.71	2.58	2.56	4.81	1.50	4.30	2.79	1.68	2.10	0.42	1.19	25.24
1989	3.22	0.83	1.90	3.09	4.23	2.26	0.40	1.60	0.02	1.83	1.48	0.14	21.00
1990	1.09	3.33	2.22	3.44	4.13	0.93	4.57	1.64	1.95	3.32	4.18	0.67	31.47
1991	10.53	2.87	1.05	6.87	3.72	4.67	1.92	6.17	1.84	1.79	0.93	12.88	55.24
1992	4.83	6.82	4.97	2.18	7.69	4.35	0.94	3.50	3.40	1.14	3.41	3.88	47.11
1993	3.92	2.44	2.52	2.82	4.98	3.37	T	T	0.49	4.32	1.13	1.19	27.18
1994	1.09	2.14	1.25	1.57	6.51	1.95	0.02	5.52	5.73	7.79	1.82	8.11	43.50
1995	1.06	1.48	3.08	4.35	7.91	3.00	0.64	4.96	4.56	2.95	2.84	0.34	37.17
1996	0.24	0.75	1.12										
1997										2.18	2.92	4.14	
1998	2.86	3.53	2.33	1.49	0.61	0.97	0.55	3.33	4.43	12.73	4.31	1.31	38.45
1999	1.70	0.02	4.96	1.23	6.18	2.32	5.34	1.03	0.47	1.57	0.08	0.69	25.59
2000	3.69	1.28	0.92	1.82	4.78	3.66	0.57	0.63	0.77	3.46	7.01	2.96	31.55
2001	2.75	1.00	3.35	0.39	4.41	3.21	0.33	5.05	5.82	2.39	10.51	3.91	43.12
2002	1.54	0.91	1.53	0.86	0.90	4.36	5.32	0.96	2.55	9.11	4.26	4.93	37.23
2003	1.69	4.92	0.94	0.06	0.51	4.06	2.98	1.93	4.06	0.89	0.68	0.66	23.38
POR= 62 YRS	2.08	2.25	2.13	2.64	4.32	3.33	1.68	2.43	3.43	3.43	2.66	2.30	32.68

WBAN : 13904

AVERAGE TEMPERATURE (°F) 2003 AUSTIN/BERGSTROM, TX (AUS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	50.6	58.4	68.0	68.6	77.3	79.9	85.6	82.4	75.0	71.4	59.3	52.2	69.1
1975	55.4	54.1	62.6	68.9	74.7	80.6	82.3	82.4	76.6	70.4	62.1	53.0	68.6
1976	51.1	62.0	64.8	69.1	71.6	79.9	80.7	83.2	76.9	61.4	51.1	49.2	66.8
1977	44.5	55.6	62.6	67.4	76.1	81.2	84.0	85.8	83.3	71.9	62.3	54.9	69.1
1978	42.4	45.9	59.3	70.0	77.8	81.9	87.1	85.2	79.1	69.5	62.3	51.4	67.7
1979	42.8	50.8	62.1	68.5	72.2	80.8	84.5	83.0	77.1	73.0	56.6	53.0	67.0
1980	52.1	53.4	61.7	66.0	75.6	84.5	87.9	86.1	82.0	69.0	58.2	54.8	69.3
1981	51.1	55.3	60.6	72.1	75.0	80.4	82.9	82.3	77.1	71.7	63.8	54.7	68.9
1982	53.1	50.8	64.4	68.4	74.8	81.3	85.9	86.5	80.1	70.1	60.5	55.0	69.2
1983	50.4	54.4	59.8	66.1	74.8	79.6	83.5	84.9	78.7	71.8	65.2	45.3	67.9
1984	47.2	57.1	65.4	71.2	77.3	80.4	85.0	86.9	80.4	72.5	61.5	61.3	70.5
1985	45.5	49.6	64.6	71.3	78.3	82.7	83.8	89.0	82.3	73.4	63.4	49.4	69.4
1986	53.1	58.3	63.1	73.1	73.6	80.9	85.5	84.9	81.7	68.6	59.9	51.8	69.5
1987	51.2	56.5	58.1	66.8	76.2	79.7	83.1	85.4	78.9	70.4	60.7	53.8	68.4
1988	47.9	54.5	61.4	68.4	74.1	79.9	83.7	85.8	81.3	72.4	66.1	56.4	69.3
1989	56.8	51.9	62.7	69.1	77.2	81.1	86.2	85.2	79.2	72.3	64.1	46.1	69.3
1990	58.4	59.0	61.7	69.3	77.2	84.9	83.5	86.1	80.9	70.1	63.7	52.0	70.6
1991	48.6	57.3	65.1	72.2	77.5	81.6	84.0	84.9	77.3	73.1	57.8	54.9	69.5
1992	51.1	58.7	64.0	68.6	73.3	81.7	84.1	82.0	80.1	71.7	58.0	55.9	69.1
1993	50.9	54.3	61.5	67.3	73.8	82.1	86.2	86.2	81.2	71.3	57.0	56.5	69.0
1994	52.7	55.5	64.7	71.0	75.6	84.6	88.2	84.0	77.3	72.2	64.8	55.8	70.5
1995	53.0	57.1	61.2	67.8	76.7	80.0	86.1	85.1	81.0	71.9	61.2	59.1	70.0
1996	54.3	63.3	58.9										
1997									80.2	69.0	54.5	47.5	
1998	54.1	52.8	58.1	64.5	78.5	86.5	87.5	84.2	81.0	70.4	61.4	50.4	69.1
1999							81.9	85.7	78.7	67.7	60.9	52.2	
2000	52.5	59.5	63.7	67.2	77.8	81.0	85.1	84.9	79.6	70.7	55.1	43.9	68.4
2001	46.4	54.5	52.9	69.5	75.4	80.7	84.6	83.1	75.4	65.5	60.9	51.8	66.7
2002	51.5	47.9	57.9	72.8	76.4	81.4	81.7	83.9	78.1	68.6	54.7	50.6	67.1
2003	47.4	49.7	56.9	68.3	78.8	80.6	81.8	83.8	75.9	69.2	62.1	51.5	67.2
POR= 62 YRS	51.0	55.2	61.7	69.6	76.1	82.1	85.0	85.0	79.5	70.8	58.2	53.4	69.0

HEATING DEGREE DAYS (base 65°F) 2003 AUSTIN/BERGSTROM, TX (AUS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	0	2	63	340	582	421	66	124	5	0	1603
1974-75	0	0	2	9	239	404	470	238	97	44	0	0	1503
1975-76	0	0	0	26	204	396	344	328	168	45	0	0	1511
1976-77	0	0	0	161	436	514	449	154	154	16	1	0	1885
1977-78	0	0	0	19	137	353	657	295	135	25	0	0	1621
1978-79	0	0	0	8	161	441	733	554	230	20	8	0	2155
1979-80	0	0	0	24	294	382	720	429	138	35	7	0	2029
1980-81	0	0	0	68	260	353	421	362	202	52	0	0	1718
1981-82	0	0	5	52	100	349	435	328	182	12	2	0	1465
1982-83	0	0	0	43	211	356	415	425	155	76	2	0	1683
1983-84	0	0	4	12	126	646	466	326	189	81	1	0	1851
1984-85	0	0	4	23	185	195	568	270	110	20	0	0	1375
1985-86	0	0	5	10	133	511	649	450	102	18	0	0	1878
1986-87	0	0	0	26	206	431	381	256	105	10	2	0	1417
1987-88	0	0	0	12	208	379	447	254	235	87	0	0	1622
1988-89	0	0	0	1	117	306	547	339	188	46	0	0	1544
1989-90	0	0	0	35	141	604	282	423	176	61	0	0	1722
1990-91	0	0	0	51	143	429	249	205	167	39	2	0	1285
1991-92	0	0	8	34	290	336	537	246	113	7	1	0	1572
1992-93													
1993-94													
1994-95													
1995-96													
1996-97													
1998-99													
1999-00	0	0	1	65	138	405	390	205	136	62	0	0	1402
2000-01	0	0	7	62	326	646	571	301	366	33	0	0	2312
2001-02	0	0	5	80	166	426	438	470	259	21	3	0	1868
2002-03	0	0	0	45	314	444	543	430	255	46	0	0	2077
2003-	0	0	0	21	178	421							

WBAN : 13904

COOLING DEGREE DAYS (base 65°F) 2003 AUSTIN/BERGSTROM, TX (AUS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	9	29	173	133	383	455	646	549	282	209	43	9	2920
1975	31	2	61	152	290	468	549	551	340	196	80	22	2742
1976	1	54	104	132	196	457	497	571	358	50	3	0	2423
1977	0	8	50	86	350	499	603	654	556	230	47	6	3089
1978	6	7	29	162	404	513	686	636	420	148	75	14	3100
1979	5	9	33	120	229	477	615	565	368	265	29	8	2723
1980	7	9	42	87	331	590	714	661	506	177	50	20	3194
1981	2	28	25	226	304	466	566	541	371	252	45	5	2831
1982	18	0	124	146	312	495	659	669	457	201	67	21	3169
1983	3	0	17	98	275	443	584	628	418	225	103	12	2806
1984	0	14	92	182	384	466	617	685	454	254	50	43	3241
1985	0	8	76	207	423	530	593	753	533	268	81	3	3475
1986	3	53	43	229	262	483	649	617	511	140	44	0	3034
1987	3	1	17	136	345	453	574	641	415	169	62	10	2826
1988	6	19	60	128	285	455	592	658	493	233	130	21	3080
1989	22	13	90	179	382	479	662	628	422	257	102	3	3239
1990	33	18	54	160	384	606	579	668	478	205	87	18	3290
1991	0	16	76	218	387	501	601	627	369	283	49	19	3146
1992													
1993													
1994													
1995													
1996													
1997													
1998													
1999							534	645	419	156	23	17	
2000	11	51	103	138	405	488	631	624	455	248	34	0	3188
2001	0	12	0	176	327	476	615	565	324	101	51	21	2668
2002	26	0	43	263	365	501	528	590	402	164	11	5	2898
2003	3	7	13	152	435	472	529	588	333	162	98	7	2799

SNOWFALL (inches) 2003 AUSTIN/BERGSTROM, TX (AUS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1998-99													
1999-00	0.0						T	0.0	0.0	0.0	0.0	0.0	
2000-01	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	T		T
2001-02	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	0.0	T
2002-03	0.0	0.0	0.0	T	0.0	0.0	0.0	0.8	T	0.0	0.0	T	0.8
2003-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 5 YRS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2

WBAN : 13904

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.</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 EIGHTS (OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2003
AUSTIN/BERGSTROM,
TEXAS (AUS)

Austin, capital of Texas, is located on the Colorado River where the stream crosses the Balcones escarpment separating the Texas Hill Country from the Blackland Prairies to the east. Elevations within the city vary from 400 feet to nearly 1,000 feet above sea level. Native trees include cedar, oak, walnut, mesquite, and pecan.

The climate of Austin is humid subtropical with hot summers. Winters are mild, with below freezing temperatures occurring on an average of about 25 days each year. Rather strong northerly winds, accompanied by sharp drops in temperature, frequently occur during the winter months in connection with cold fronts, but cold spells are usually of short duration, seldom lasting more than two days. Daytime temperatures in summer are hot, but summer nights are usually pleasant.

Precipitation is fairly evenly distributed throughout the year, with heaviest amounts occurring in late spring. A secondary rainfall peak occurs in September, primarily because of tropical cyclones that migrate out of the Gulf of Mexico. Precipitation from April through September usually results from thunderstorms, with fairly large amounts of rain falling within short periods of time. While thunderstorms and heavy rains may occur in all months of the year, most of the winter precipitation consists of light rain. Snow is insignificant as a source of moisture, and usually melts as rapidly as it falls. The city may experience several seasons in succession with no measurable snowfall.

Prevailing winds are southerly, however in winter, northerly winds are about as frequent as those from the south. Destructive winds and damaging hailstorms are infrequent. On rare occasions dissipating tropical storms produce strong winds and heavy rains in the area. Blowing dust occurs occasionally in spring, but visibility rarely drops substantially, and then only for a few hours.

The average length of the warm season (freeze-free period) is 273 days. The average occurrence of the last temperature of 32 degrees in spring is early March and the average occurrence of the first temperature of 32 degrees is late November.

EDITORIAL NOTE:

With the opening of Austin Bergstrom International Airport in May 1999, there are now two sets of Local Climatological Data (LCD) maintained for Austin, Texas. As a user of National Climate Data Center products, you should be aware of the history of the data sets; in addition, you should know where and how these climatological data records are kept for the two Austin area weather observation sites.

Austin Bergstrom International Airport (Identifier AUS) The Local Climatological Data for this site is based upon U. S. Air Force weather records taken at Bergstrom Air Force Base (formerly occupying this site) for the time period 1942 through 1995. With base conversion to civilian use, Austin Bergstrom International Airport was opened to cargo operations on September 1, 1997, with resumption of manual surface weather observations. On October 2, 1997, an ASOS was commissioned at this airport. Austin Bergstrom International Airport was opened to full civilian operations (with full human augmentation as FAA Service Level "A" weather observations) on May 23, 1999. This weather observation site is located about 6 miles southeast of downtown Austin (immediately southeast of the intersection of U.S. Highway 183 and State Highway 71) in the Onion Creek watershed. Because the location is in a more outlying and lowlying area, nighttime temperatures (especially during calm wind conditions during the winter time of the year) tend to be considerably cooler than the Austin - City/Camp Mabry (Texas National Guard) weather observation site.

Austin City/Camp Mabry (Texas National Guard) (Identifier ATT) The Local Climatological Data for this site is based on weather records started back in the 1800s in the downtown Austin area. This National Weather Service first order data set was moved 3 miles northeast of the downtown area with the opening of Austin Robert Mueller Municipal Airport in the 1940s and continued until the closure of the Robert Mueller Airport on May 23, 1999. The National Weather Service ASOS was left without human augmentation effective with the closure of the airport. With the planned demolition of the former airport site, the National Weather Service held discussions with local users about finding a comparable location (geography and elevation) to maintain this "in city" climate data set. With cooperation of Texas National Guard officials, the National Weather Service moved the ASOS (no human augmentation) to Camp Mabry on July 21, 1999. This location, which is very similar to the former airport site, is along Loop 1/MoPac Expressway about 4 miles west northwest of the former Robert Mueller airport site and about 3 miles northwest of downtown Austin.

As a NCDC Local Climatological data user, you should be aware of these 1999 changes and how it affects the choice of which Local Climatological Data set you use for Austin, Texas.

STATION LOCATION

AUSTIN/BERGSTROM, 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		
Bergstrom AFB Austin-Bergstrom Int'l Airport	1942 10/02/97	1995 Present	NA	30°11'	97°41'	a658									S	ASOS Commissioned 10/02/97 a. Ground elevation.	

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