

1999

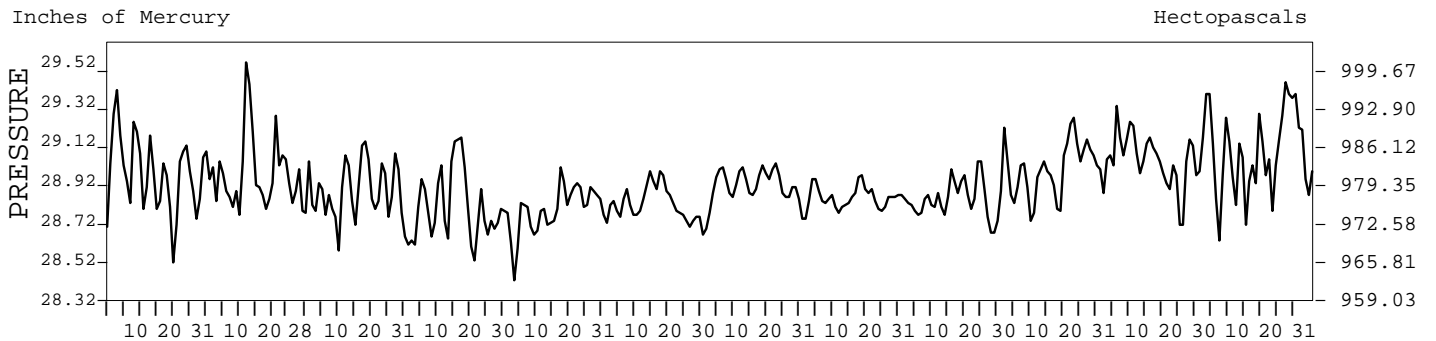
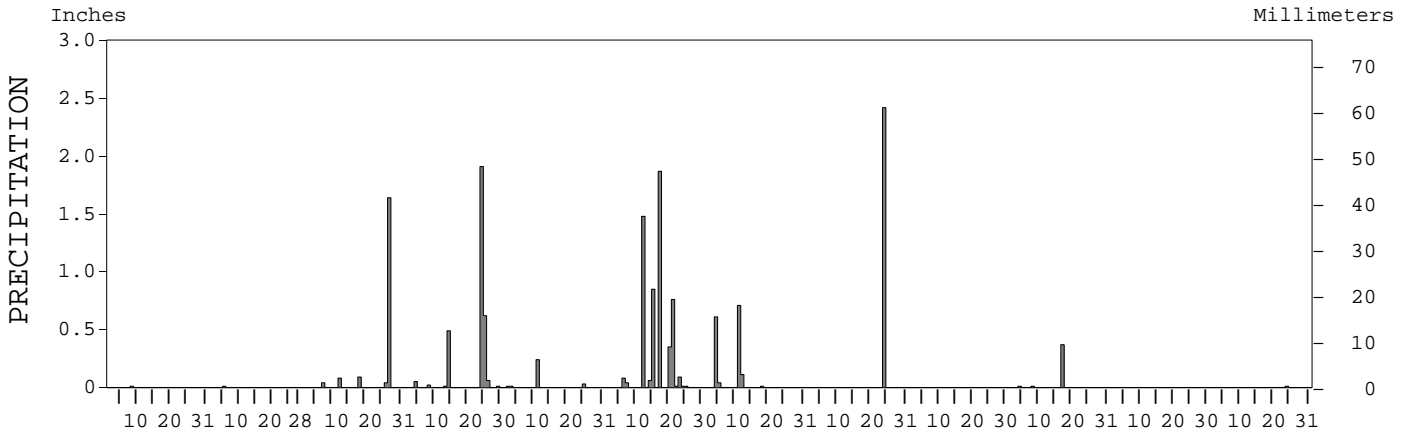
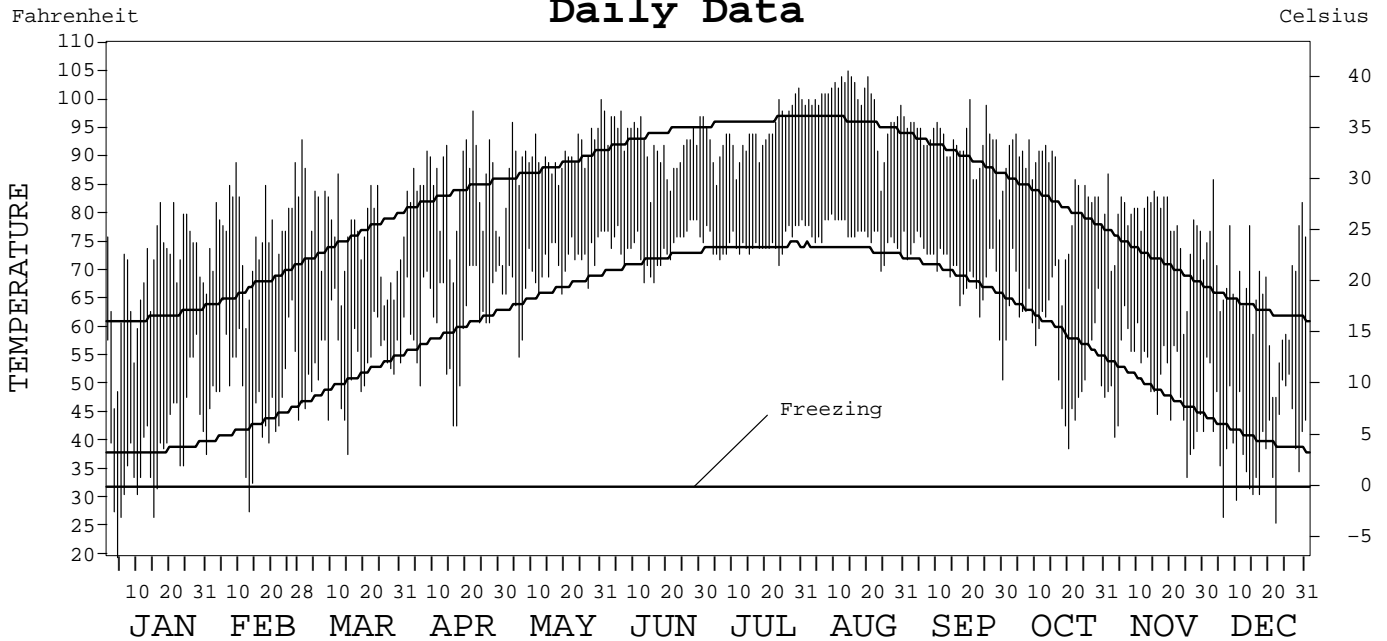
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4985

DEL RIO,  
TEXAS (DRT)

## Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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# METEOROLOGICAL DATA FOR 1999

## DEL RIO, TX (DRT)

LATITUDE: 29° 22' 01" N      LONGITUDE: 100° 55' 18" W      ELEVATION (FT): GRND: 1027      BARO: 1027      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 22010

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	69.5	77.1	76.6	84.7	89.6	92.4	94.0	99.2	92.3	84.9	77.9	67.1	83.8	
	HIGHEST DAILY MAXIMUM	82	89	93	98	100	98	102	105	100	94	87	86	105	
	DATE OF OCCURRENCE	21+	27+	01	22	31	06+	30	14	20	04	01	03	AUG 14	
	MEAN DAILY MINIMUM	39.6	48.7	53.6	61.7	69.9	74.3	74.8	76.4	69.8	57.6	49.9	40.7	59.8	
	LOWEST DAILY MINIMUM	20	28	38	43	55	68	71	70	51	39	34	26	20	
	DATE OF OCCURRENCE	04	13	15	17+	06	16+	24	24	30	20	25	22	JAN 04	
	AVERAGE DRY BULB	54.6	62.9	65.1	73.2	79.8	83.4	84.4	87.8	81.1	71.3	63.9	53.9	71.8	
	MEAN WET BULB	47.1	53.3	56.9	64.7	70.2	74.8	74.3	73.5	69.7	60.7		44.5		
	MEAN DEW POINT	39.4	43.0	49.8	58.4	65.2	71.6	70.0	66.7	63.8	53.2		31.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	1	9	17	23	26	29	25	11	0	0	0	141
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	7	1	0	0	0	0	0	0	0	0	0	6	14	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	324	106	63	16	0	0	0	0	34	87	339	969		
	COOLING DEGREE DAYS	5	55	72	271	467	559	610	713	491	233	61	1	3538	
RH	MEAN (PERCENT)	61	54	63	65	65	72	66	54	60	57	60	48	60	
	HOUR 00 LST	62	57	68	72	68	78	68	58	64	63	68	52	65	
	HOUR 06 LST	78	75	78	83	83	90	87	76	81	80	79	62	79	
	HOUR 12 LST	57	48	56	59	60	66	60	47	52	46	53	39	54	
	HOUR 18 LST	46	35	48	47	49	56	47	36	42	39	45	37	44	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	1	0	1	0	0	0	0	0	0	0	1	8	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
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.)	28.96	28.96	28.87	28.79	28.78	28.80	28.89	28.84	28.85	28.98	29.05	29.05	28.90	
	MEAN SEA-LEVEL PRESS. (IN.)	30.04	30.03	29.93	29.84	29.82	29.85	29.94	29.88	29.89	30.04		30.13		
WINDS	RESULTANT SPEED (MPH)	1.5	4.0	3.6	5.5	6.2	5.7	6.3	5.2	5.6	3.2	3.6	0.9	3.7	
	RES. DIR. (TENS OF DEGS.)	06	11	09	12	13	18	15	13	13	12	11	34	13	
	MEAN SPEED (MPH)	8.4	8.3	10.1	10.3	10.2	10.5	9.8	7.9	8.9	8.3	7.1	8.1	9.0	
	PREVAIL. DIR. (TENS OF DEGS.)	12	12	11	11	12	12	11	11	12	13	12	31	12	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	45	31	32	31	28	36	30	28	25	30	23	37	45	
	DIR. (TENS OF DEGS.)	31	32	30	30	05	31	14	35	36	30	30	31	31	
	DATE OF OCCURRENCE	22	11	13	24+	18	12	03	03	28+	31	23	04	JAN 22	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	56	40	40	40	34	47	37	41	33	36	25	41	56	
DIR. (TENS OF DEGS.)	31	34	30	31	05	32	13	22	01	30	30	31	31		
DATE OF OCCURRENCE	22	11	13	05	18	12	03	03	28	31	23+	04	JAN 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.01	0.01	1.89	3.17	0.29	5.61	1.48	2.42	T	0.39	T	0.01	15.28	
	GREATEST 24-HOUR (IN.)	0.01	0.01	1.67	2.00	0.24	1.87	0.71	2.42	T	0.37	T	0.01	2.42	
	DATE OF OCCURRENCE	08	05	26-27	24-25	11	17	11	24	22	17	07	24	AUG 24	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	1	1	5	8	4	12	5	1	0	3	0	1	41	
PRECIPITATION ≥ 0.10	0	0	1	3	1	5	3	1	0	1	0	0	15		
PRECIPITATION ≥ 1.00	0	0	1	1	0	2	0	1	0	0	0	0	5		
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

DEL RIO, TX (DRT)

LATITUDE: 29° 22' 01" N      LONGITUDE: 100° 55' 18" W      ELEVATION (FT): GRND: 1027      BARO: 1027      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 22010

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	61.9	67.1	75.7	83.4	88.2	93.6	96.2	96.0	90.4	81.7	71.7	63.5	80.8
	MEAN DAILY MAXIMUM	42	63.3	68.1	76.2	83.5	88.8	94.5	96.9	96.8	90.9	82.3	71.6	64.3	81.4
	HIGHEST DAILY MAXIMUM	37	89	99	101	106	106	112	108	109	105	106	96	90	112
	YEAR OF OCCURRENCE		1972	1996	1971	1984	1998	1988	1995	1969	1983	1979	1988	1977	JUN 1988
	MEAN OF EXTREME MAXS.	42	80.4	85.5	91.3	96.5	99.3	102.1	103.0	102.5	99.4	93.2	85.7	80.3	93.3
	NORMAL DAILY MINIMUM	30	38.5	42.9	50.9	59.2	66.3	71.7	74.1	73.6	69.1	59.7	49.0	40.6	58.0
	MEAN DAILY MINIMUM	42	40.0	44.0	51.5	59.3	66.6	72.4	74.6	74.2	69.3	59.7	48.7	41.0	58.4
	LOWEST DAILY MINIMUM	37	15	14	21	33	45	55	64	64	48	28	22	10	10
	YEAR OF OCCURRENCE		1982	1985	1980	1987	1970	1970	1976	1966	1995	1993	1976	1989	DEC 1989
	MEAN OF EXTREME MINS.	42	24.7	28.4	33.9	44.2	54.7	63.9	69.3	68.8	57.2	44.4	32.2	26.4	45.7
	NORMAL DRY BULB	30	50.2	55.1	63.3	71.3	77.3	82.7	85.2	84.8	79.8	70.7	60.4	52.1	69.4
	MEAN DRY BULB	42	51.7	56.0	63.7	71.3	77.7	83.3	85.8	85.5	80.1	71.0	60.2	52.6	69.9
	MEAN WET BULB	4	38.7	43.0	48.3	55.4	61.8	69.9	73.6	73.6	71.7	47.1	54.8	45.3	56.9
	MEAN DEW POINT	4	29.1	30.6	35.2	49.8	64.5	67.6	66.6	67.8	66.9	43.0	50.1	37.0	50.7
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.3	1.8	6.6	13.1	24.6	27.9	28.1	18.9	3.8	0.3	*	125.4	
MAXIMUM ≤ 32°	30	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	
MINIMUM ≤ 32°	30	7.0	3.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.1	17.5	
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	465	291	139	14	0	0	0	0	0	19	171	407	1506
	NORMAL COOLING DEG. DAYS	30	6	14	87	203	381	531	626	614	444	196	33	7	3142
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)	24	3.3	1.3	0.9	0.2	0.2	0.0	0.0	0.0	0.2	0.9	2.8	3.7	13.5
	THUNDERSTORMS	24	0.3	0.6	1.6	3.5	6.6	3.4	3.1	3.2	3.2	1.6	0.8	0.3	28.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	16	4.6	4.4	4.4	4.9	5.1	4.4	3.7	3.8	4.1	3.7	3.9	4.2	4.3
	MIDNIGHT-MIDNIGHT (OKTAS)	16	4.1	3.8	3.8	4.3	4.5	3.6	3.2	3.2	3.6	3.3	3.4	3.8	3.7
	MEAN NO. DAYS WITH:														
	CLEAR	16	10.1	10.3	10.6	8.4	6.5	7.9	11.1	10.4	8.7	11.7	11.1	10.6	117.4
PARTLY CLOUDY	16	6.6	6.7	7.6	7.4	8.9	13.3	10.6	11.4	10.4	7.9	6.5	5.3	102.6	
CLOUDY	16	14.3	11.3	12.8	14.2	15.6	8.8	7.4	7.4	9.2	9.5	10.7	13.4	134.6	
PR	MEAN STATION PRESSURE (IN)	10	29.00	28.98	28.83	28.80	28.80	28.79	28.89	28.89	28.88	28.91	29.00	29.00	28.90
	MEAN SEA-LEVEL PRES. (IN)	4	30.02	29.98	29.98	29.87	29.86	29.93	29.92	29.91	29.87	29.97	30.03	30.09	29.95
WINDS	MEAN SPEED (MPH)	3	7.5	8.6	9.6	10.1	9.9	10.6	10.2	8.6	8.0	8.4	7.0	7.6	8.8
	PREVAIL. DIR (TENS OF DEGS)	3	13	13	13	11	11	13	11	11	13	13	13	31	13
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	45	39	38	34	44	51	39	36	29	31	29	37	51
	DIR. (TENS OF DEGS)		31	31	32	30	09	28	16	06	36	36	28	31	28
	YEAR OF OCCURRENCE		1999	1998	1998	1997	1997	1998	1998	1997	1997	1998	1997	1999	JUN 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	56	52	49	45	61	68	47	45	33	44	34	46	68	
DIR. (TENS OF DEGS)		31	30	31	28	08	26	17	06	01	36	28	01	26	
YEAR OF OCCURRENCE		1999	1998	1998	1997	1997	1997	1998	1997	1999	1998	1997	1998	JUN 1997	
PRECIPITATION	NORMAL (IN)	30	0.56	0.95	0.69	1.98	2.03	2.11	1.85	1.47	2.83	2.24	0.92	0.61	18.24
	MAXIMUM MONTHLY (IN)	37	2.36	3.80	3.20	7.51	7.33	5.74	13.18	15.69	15.79	11.33	3.36	3.14	15.79
	YEAR OF OCCURRENCE		1994	1992	1990	1981	1995	1987	1976	1998	1964	1969	1969	1994	SEP 1964
	MINIMUM MONTHLY (IN)	37	T	0.00	T	0.01	0.08	T	0.04	T	0.36	0.00	T	T	0.00
	YEAR OF OCCURRENCE		1996	1974	1971	1998	1998	1990	1998	1985	1999	1979	1988	1973	OCT 1979
	MAXIMUM IN 24 HOURS (IN)	33	1.91	2.57	1.73	4.57	3.76	2.67	6.34	11.87	5.52	7.60	2.74	2.40	11.87
	YEAR OF OCCURRENCE		1994	1987	1979	1969	1995	1993	1975	1998	1970	1969	1978	1994	AUG 1998
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	4.9	4.9	4.8	5.3	7.2	5.2	4.3	4.1	6.4	5.0	4.4	5.1	61.6	
PRECIPITATION ≥ 1.00	30	0.0	0.1	0.1	0.8	0.4	0.6	0.6	0.5	0.9	0.7	0.1	0.1	4.9	
SNOWFALL	NORMAL (IN)	30	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	1.0
	MAXIMUM MONTHLY (IN)	33	9.8	2.7	3.0	T	T	0.0	0.0	0.0	0.0	1.2	T	T	9.8
	YEAR OF OCCURRENCE		1985	1973	1965	1990	1995				1993	1976	1989	1989	JAN 1985
	MAXIMUM IN 24 HOURS (IN)	30	8.6	2.7	3.0	T	T	0.0	0.0	0.0	0.0	1.2	T	T	8.6
	YEAR OF OCCURRENCE		1985	1973	1965	1990	1995				1993	1976	1989	1989	JAN 1985
	MAXIMUM SNOW DEPTH (IN)	38	9	2	3	0	0	0	0	0	0	0	0	0	9
	YEAR OF OCCURRENCE		1985	1966	1965										JAN 1985
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.2	0.1	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	

PRECIPITATION (inches) 1999 DEL RIO, TX (DRT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.42	1.61	0.57	0.14	2.85	1.38	0.04	1.43	9.87	0.06	T	0.12	18.49
1971	T	0.29	T	2.16	0.59	4.87	0.45	6.10	0.50	2.36	0.83	0.25	18.40
1972	0.63	0.08	0.52	1.58	2.61	1.82	2.60	5.74	0.92	0.38	0.71	0.01	17.60
1973	0.76	1.36	1.19	2.08	0.20	3.22	2.43	1.08	2.86	4.78	T	T	19.96
1974	0.05	0.00	1.39	1.39	1.42	T	0.09	3.37	4.98	2.81	0.62	1.47	17.59
1975	0.51	1.92	0.06	1.06	2.17	1.12	8.26	0.27	1.24	1.36	0.10	0.53	18.60
1976	0.15	0.01	0.14	2.45	2.82	0.46	13.18	0.43	1.10	3.20	0.89	1.51	26.34
1977	0.89	1.23	0.87	2.66	2.27	1.23	0.06	0.10	1.41	4.96	0.67	0.01	16.36
1978	0.07	0.36	0.15	2.09	3.46	2.02	2.15	1.14	2.76	0.95	3.35	0.76	19.26
1979	0.29	1.57	2.66	1.53	0.62	4.33	0.25	0.72	0.68	0.00	0.60	0.78	14.03
1980	0.22	0.44	0.30	0.44	5.15	0.32	0.28	2.06	1.86	0.06	2.00	1.02	14.15
1981	0.67	0.21	1.64	7.51	1.94	5.54	0.56	2.18	0.36	6.64	0.10	0.06	27.41
1982	0.12	2.45	0.13	0.47	1.59	2.37	0.86	0.12	1.10	0.17	1.77	0.79	11.94
1983	0.70	1.01	1.07	0.13	1.19	1.07	0.32	0.79	1.35	5.09	1.42	0.06	14.20
1984	1.44	0.24	0.06	0.55	2.09	0.45	0.90	0.51	2.78	3.02	1.03	2.44	15.51
1985	1.25	0.51	0.81	2.51	2.20	3.91	1.71	T	2.81	0.63	1.05	0.03	17.42
1986	1.69	0.17	0.02	0.78	3.56	4.47	1.20	0.81	3.70	5.44	0.42	2.36	24.62
1987	0.16	3.47	0.77	3.21	3.89	5.74	1.97	2.05	0.58	0.24	0.45	0.59	23.12
1988	0.05	0.18	0.15	0.12	1.45	1.78	4.38	2.17	4.48	0.27	T	0.38	15.41
1989	1.06	1.04	0.92	0.18	1.94	0.26	0.26	0.23	1.24	0.49	1.32	0.30	9.24
1990	0.59	1.25	3.20	4.82	2.13	T	4.13	0.43	6.19	1.51	1.16	0.22	25.63
1991	0.57	0.75	0.04	1.88	2.37	2.73	1.23	0.75	7.07	0.17	1.42	3.06	22.04
1992	1.92	3.80	2.57	1.27	4.13	1.82	4.28	1.15	0.41	0.80	0.69	0.42	23.26
1993	0.60	0.77	0.47	0.72	1.29	5.28	0.97	2.54	0.77	0.68	0.13	0.18	14.40
1994	2.36	1.61	2.49	1.74	2.61	0.05	5.07	0.57	1.24	1.70	0.39	3.14	22.97
1995	0.03	0.31	1.06	0.75	7.33	0.16	0.08	1.11	3.06	2.13	1.24	0.49	17.75
1996	T	0.39	0.02	0.62	1.20	0.02	0.07	4.77	2.09	0.88	0.87	0.34	11.27
1997	0.20	2.01	2.77	2.55	5.66	3.70	0.77	0.23	1.41	2.39	0.77	0.55	23.01
1998	0.01	0.34	1.06	0.01	0.08	1.35	T	15.69	1.43	1.46	1.94	0.24	23.61
1999	0.01	0.01	1.89	3.17	0.29	5.61	1.48	2.42	T	0.39	T	0.01	15.28
POR= 94 YRS	0.63	0.89	0.84	1.65	2.40	2.18	1.75	1.59	2.54	2.16	0.90	0.69	18.22

WBAN : 22010

AVERAGE TEMPERATURE (°F) 1999 DEL RIO, TX (DRT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	47.1	54.9	57.5	70.1	73.8	81.2	85.4	85.3	78.7	66.9	57.3	57.7	68.0
1971	56.1	56.8	64.9	70.2	78.3	80.1	82.0	78.6	78.5	71.1	61.7	56.5	69.6
1972	53.6	58.1	68.8	75.3	74.9	82.2	83.0	80.8	80.5	71.9	55.9	50.9	69.7
1973	47.7	51.2	65.9	68.1	77.9	80.1	82.5	83.7	80.2	71.4	64.2	53.0	68.8
1974	53.1	56.9	68.8	72.2	80.6	83.7	85.9	83.6	73.9	70.1	58.0	50.9	69.8
1975	53.1	55.2	63.8	70.9	76.4	82.6	81.2	83.4	76.3	70.8	61.4	53.5	69.1
1976	50.1	63.0	66.5	70.3	72.9	82.5	78.0	81.5	78.8	63.0	53.2	49.2	67.4
1977	46.4	55.4	62.8	68.4	75.6	82.9	85.8	88.3	85.8	72.4	61.7	55.5	70.1
1978	46.5	49.9	63.4	73.9	80.0	83.8	87.7	84.6	78.5	69.5	61.5	51.1	69.2
1979	44.2	52.2	62.9	70.2	75.8	79.6	87.4	85.0	80.8	75.4	57.8	53.9	68.8
1980	54.1	56.1	63.6	70.8	78.2	87.2	90.1	85.0	83.6	70.7	57.6	53.5	70.9
1981	52.2	55.3	61.6	71.4	76.3	80.5	84.3	84.9	80.4	72.1	63.0	54.5	69.7
1982	50.9	52.2	64.9	71.0	76.0	84.3	86.2	87.3	81.2	72.2	59.6	51.8	69.8
1983	51.1	55.1	62.5	69.0	78.0	81.9	86.3	86.2	81.1	72.9	62.4	44.6	69.3
1984	47.4	57.0	65.7	72.8	79.7	84.3	85.8	86.7	78.8	71.8	59.0	57.9	70.6
1985	45.4	51.8	64.2	71.1	79.1	81.1	83.6	87.3	80.7	71.6	64.6	49.7	69.2
1986	52.8	60.5	66.8	75.6	77.4	81.1	85.7	85.3	81.1	69.1	58.9	51.2	70.5
1987	51.4	55.8	57.5	65.4	74.9	79.1	82.7	85.2	79.1	71.6	59.3	53.0	67.9
1988	47.7	54.8	63.5	71.5	76.8	82.9	84.5	84.4	79.8	71.6	63.2	53.6	69.5
1989	55.3	52.4	62.7	71.5	82.0	84.8	87.3	85.1	78.6	70.8	60.4	44.3	69.6
1990	55.4	59.5	62.4	69.7	77.5	87.8	82.7	83.5	78.9	69.5	62.6	52.4	70.2
1991	51.5	58.3	66.7	74.1	80.7	83.5	84.6	86.7	77.2	72.8	57.4	55.5	70.8
1992	51.7	58.2	64.4	69.3	74.1	82.9	84.5	83.2	81.8	74.0	58.0	55.5	69.8
1993	52.2	57.4	65.0	71.7	77.4	82.7	86.1	87.0	79.4	71.3	57.8	57.0	70.4
1994	54.3	57.4	65.8	72.0	77.7	87.0	86.7	86.0	79.2	72.6	62.5	57.3	71.5
1995	54.3	60.3	62.6	72.0	79.4	83.0	88.1	87.5	81.0	71.5	61.2	54.5	71.3
1996	53.1	59.3	61.1	70.9	83.4	87.8	89.3	85.7	79.5	71.1	60.9	52.9	71.3
1997	49.5	53.8	64.7	65.3	75.3	80.7	86.5	88.0	83.6	70.2	58.3	50.1	68.8
1998	56.6	57.7	62.8	71.8	84.2	89.1	91.7	85.2	82.0	71.9	62.4	52.3	72.3
1999	54.6	62.9	65.1	73.2	79.8	83.4	84.4	87.8	81.1	71.3	63.9	53.9	71.8
POR= 94 YRS	51.5	56.1	63.3	70.8	77.4	83.1	85.2	85.1	79.9	71.0	59.7	52.4	69.6

HEATING DEGREE DAYS (base 65°F) 1999 DEL RIO, TX (DRT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	24	69	233	224	278	239	107	35	0	0	1209
1971-72	0	0	9	6	135	263	350	228	34	2	0	0	1027
1972-73	0	0	0	21	283	429	531	381	31	72	0	0	1748
1973-74	0	0	0	1	83	362	363	231	53	11	0	0	1104
1974-75	0	0	6	9	223	431	375	274	114	22	0	0	1454
1975-76	0	0	0	16	180	361	456	125	76	3	5	0	1222
1976-77	0	0	0	127	348	481	568	269	122	13	0	0	1928
1977-78	0	0	0	6	126	294	564	422	111	3	0	0	1526
1978-79	0	0	1	8	147	426	639	363	125	8	0	0	1717
1979-80	0	0	0	10	233	346	336	279	119	26	0	0	1349
1980-81	0	0	0	51	268	353	388	280	119	9	0	0	1468
1981-82	0	0	0	33	92	319	436	359	125	42	0	0	1406
1982-83	0	0	0	20	221	409	423	269	103	66	0	0	1511
1983-84	0	0	0	2	141	625	539	240	82	9	0	0	1638
1984-85	0	0	10	22	214	222	603	367	96	28	0	0	1562
1985-86	0	0	8	9	85	466	370	173	41	4	0	0	1156
1986-87	0	0	0	19	205	419	414	252	235	98	0	0	1642
1987-88	0	0	0	2	220	362	533	307	142	12	0	0	1578
1988-89	0	0	0	0	131	346	299	362	162	39	0	0	1339
1989-90	0	0	2	40	171	634	300	169	133	30	8	0	1487
1990-91	0	0	0	34	128	388	412	195	58	2	0	0	1217
1991-92	0	0	13	24	247	294	405	193	70	36	0	0	1282
1992-93	0	0	0	0	230	291	394	218	102	5	0	0	1240
1993-94	0	0	0	69	221	258	325	226	97	13	3	0	1212
1994-95	0	0	0	20	116	251	327	144	160	15	0	0	1033
1995-96	0	0	10	5	137	325	365	238	205	46	0	0	1331
1996-97	0	0	0	18	171	372	480	315	81	76	0	0	1513
1997-98	0	0	0	38	207	456	255	208	166	0	0	0	1330
1998-99	0	0	0	15	96	390	324	106	63	16	0	0	1010
1999-	0	0	0	34	87	339							

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COOLING DEGREE DAYS (base 65°F) 1999 DEL RIO, TX (DRT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	3	0	15	200	286	496	642	637	443	135	11	0	2868
1971	10	19	114	196	421	461	534	429	423	201	43	8	2859
1972	3	37	161	317	315	521	566	496	473	241	18	1	3149
1973	0	0	68	170	410	460	550	586	463	207	69	0	2983
1974	2	10	178	237	489	565	654	584	278	177	23	2	3199
1975	13	1	83	205	363	534	508	582	345	202	78	13	2927
1976	0	74	130	168	255	534	410	521	419	73	3	0	2587
1977	0	7	63	121	334	543	649	733	630	239	34	6	3359
1978	0	7	71	274	473	571	710	614	415	159	49	1	3344
1979	0	9	66	172	340	444	701	625	483	337	24	9	3210
1980	6	25	81	206	417	671	785	629	567	233	53	5	3678
1981	0	15	24	210	356	472	603	624	470	258	40	0	3072
1982	7	9	129	228	348	587	662	698	493	253	68	5	3487
1983	0	0	33	193	409	511	669	664	489	253	71	0	3292
1984	0	12	111	249	463	585	651	682	431	241	40	12	3477
1985	0	6	78	218	443	491	580	698	481	222	81	0	3298
1986	0	51	103	329	389	493	650	637	491	153	30	0	3326
1987	0	0	8	120	314	431	556	634	428	216	55	0	2762
1988	0	19	104	217	374	543	610	609	449	210	84	2	3221
1989	7	15	98	243	534	599	698	631	418	228	40	0	3511
1990	13	20	58	177	401	694	557	581	423	177	61	4	3166
1991	0	11	115	283	494	560	614	677	386	273	27	7	3447
1992	0	1	58	173	286	545	609	574	510	287	26	3	3072
1993	0	12	110	212	391	536	660	690	442	271	13	14	3351
1994	2	20	129	230	403	667	678	657	430	263	50	20	3549
1995	0	21	91	232	454	547	724	705	497	216	28	5	3520
1996	5	78	90	232	577	690	759	649	441	213	54	0	3788
1997	4	9	81	93	324	478	677	721	565	206	15	0	3173
1998	1	11	106	215	603	728	833	635	518	236	24	4	3914
1999	5	55	72	271	467	559	610	713	491	233	61	1	3538

SNOWFALL (inches) 1999 DEL RIO, TX (DRT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	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
1971-72	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1972-73	0.0	0.0	0.0	0.0	0.0	0.0	T	2.7	0.0	0.0	0.0	0.0	2.7
1973-74	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
1974-75	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
1975-76	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1976-77	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
1977-78	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
1978-79	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
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	1.0	T	0.0	0.0	0.0	0.0	1.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	9.8	T	0.0	0.0	0.0	0.0	9.8
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	8.2
1986-87	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
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1989-90	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1992-93	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
1993-94	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0				
1996-97													
1997-98													
1998-99													
1999-													
POR= 31 YRS	0.0	0.0	0.0	0.0	T	T	0.6	0.2	0.1	T	T	0.0	0.9

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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 (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.</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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999  
DEL RIO,  
TEXAS (DRT)

Del Rio is located on the Rio Grande River, on the western tip of the Balcones escarpment, in southwest Texas. Elevation is near 1,000 feet and varies little within the city but rises to 2,300 feet in the northern part of the county. Regional agriculture is chiefly wool and mohair production to the north and west of Del Rio and garden crops to the southeast. Lake Amistad, a reservoir of 65,000 surface acres, lies 10 miles west of Del Rio.

The climate of Del Rio is semi-arid continental. Annual precipitation is insufficient for dry farming. However, San Felipe Springs and the Rio Grande provide adequate water for irrigation farming. Over 80 percent of the average annual precipitation occurs from April through October. During this period, rainfall is chiefly in the form of showers and thunderstorms, often as heavy downpours, resulting in flash flooding. The small amount of precipitation for November through March usually falls as steady light rain.

Hail occurs in the vicinity of Del Rio about once per year and reaches severe proportions about once every five years. Sleet or snow falls on an average of once a year, but frequently melts as it falls. A snowfall heavy enough to blanket the ground only occurs about once every four or five years, and seldom remains more than 24 hours.

Temperature averages indicate mild winters and quite warm summers. Cold periods in winter are ushered in by strong, dry, dusty north, and northwest winds known as northers, and temperature drops of as much as 25 degrees in a few hours are not uncommon. Cold weather periods usually do not last more than two or three days. Temperatures as low as 32 degrees have occurred as early as October and as late as March. Normal occurrences of the earliest freezing temperature in autumn and the latest in spring are early December and mid February, which results in an average growing season of 300 days. Hot weather is rather persistent from late May to mid September and temperatures above 100 degrees have been recorded as early as March and as late as October. Low humidity and fresh breezes tend to alleviate uncomfortable conditions usually associated with high temperatures. The mean early morning humidity is about 79 percent, and the mean afternoon humidity is near 44 percent.

Clear to partly cloudy skies predominate, and even in the more cloudy winter months, the mean number of cloudy days are less than the number of clear days.

STATION LOCATION

DEL RIO, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											* Type	REMARKS			
						SEA LEVEL	GROUND												AUGUST		
							WIND	EMER	EMER	EMER	EMER	EMER	EMER	EMER	EMER	EMER				EMER	
Ware's Cottage 106 West Martin	11/9/05	6/24/14	NA	29°22'	100°54'	941	57	8	8												
Post Office Building Main and Broadway	6/24/14	4/16/51	300 ft. E	29°22'	100°54'	957	71	63	62			56			56						
Administration Building Val Verde County AP	4/16/51	9/1/57	5 mi. E	29°22'	100°49'	1091	29	6	5			4			4						
Post Office Building Main and Broadway	9/1/57	2/28/63	5 mi. W	29°22'	100°54'	957		69	59						57						Climatological Observations Only.
Weather Bureau Bldg. + International Airport	2/28/63	04/01/96	1.5 mi. NW	29°22'	100°55'	1026	23 a23	5	5	NA		NA C3 D3		NA D3	3	NA				T	a - Minor adjustment 11/16/63. b - Installed 4/8/64 c - Installed 9/27/76 T - Commissioned 1/1/80. d - Part of AUTOB 9/1/80.
+ Weather Service Bldg. (Effective 1970)																					
International Airport	04/01/96	Present	NA	29°22'	100°55'	1027														S	ASOS Commissioned 04/01/96

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (828) 271-4800

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