

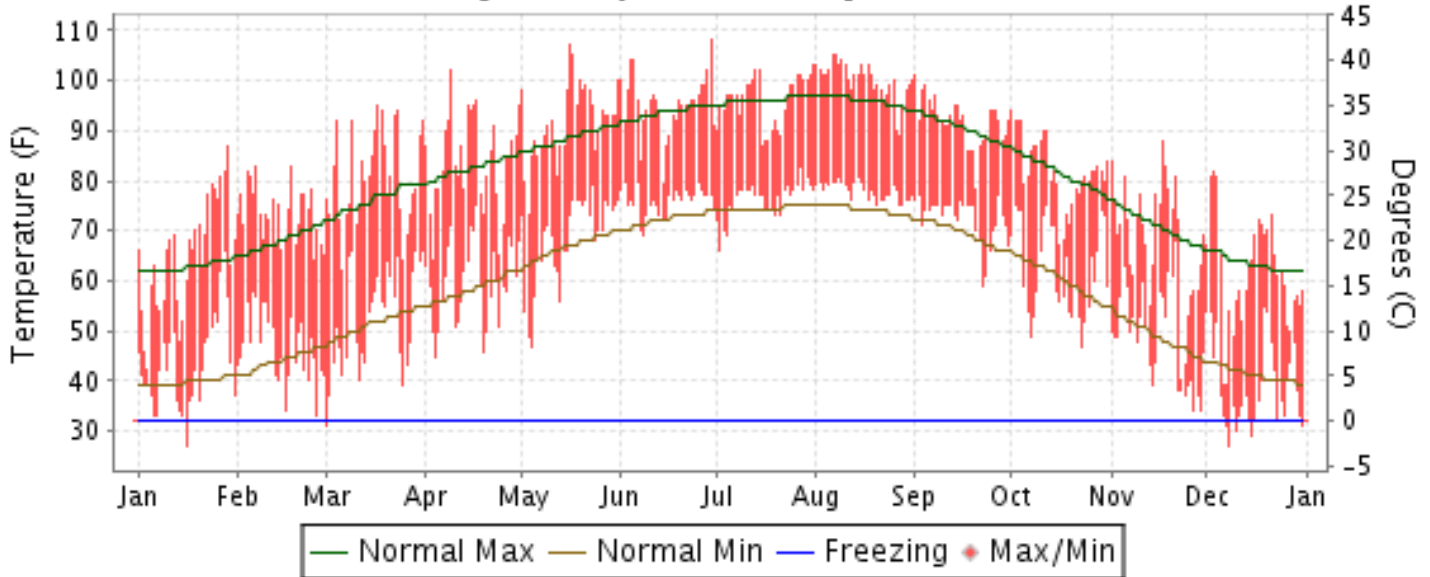


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

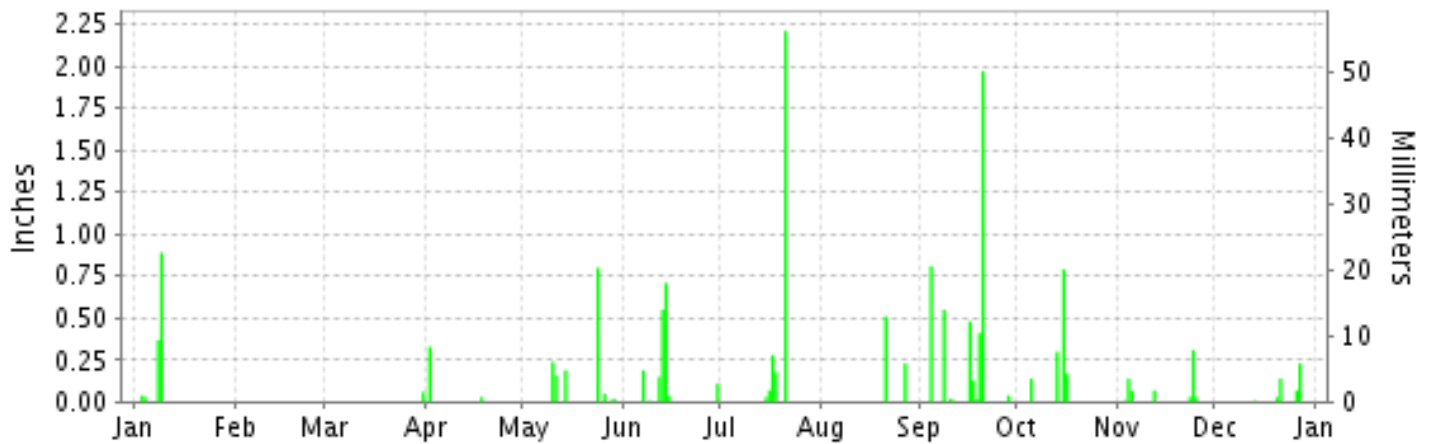
ISSN 0198-4985

DEL RIO, TEXAS (KDRT)

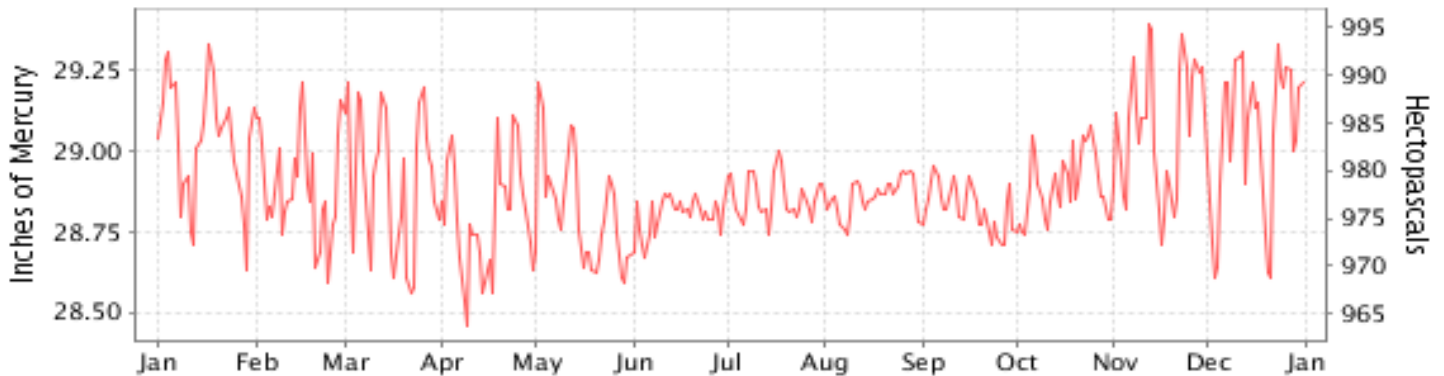
Daily Max/Min Temperature



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

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

DEL RIO (KDRT)

LATITUDE:
29° 22'N

LONGITUDE:
100° 55'W

ELEVATION (FT):
GRND: 999 BARO: 1029

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	64.9	73.2	80.7	83.9	91.8	95.2	96.1	99.8	91.8	82.0	68.4	61.5	82.4	
	HIGHEST DAILY MAXIMUM	87	83	95	102	107	108	103	105	101	94	88	82	108	
	DATE OF OCCURRENCE	29	18+	17	09	16	29	31	07+	01	01	17	03	JUN 29	
	MEAN DAILY MINIMUM	43.3	46.8	52.5	59.8	68.4	75.8	76.1	78.0	72.3	62.2	49.0	38.9	60.3	
	LOWEST DAILY MINIMUM	27	33	31	45	47	69	66	75	59	47	34	27	27	
	DATE OF OCCURRENCE	16	26	01	04	04	08	02	28+	22	23	29+	08	DEC 08	
	AVERAGE DRY BULB	54.1	60.0	66.6	71.9	80.1	85.5	86.1	88.9	82.1	72.1	58.7	50.2	71.4	
	MEAN WET BULB	46.9	48.5	52.3	59.6	66.2	72.7	71.8	72.0	71.0	63.9	51.3	44.1	60.0	
	MEAN DEW POINT	39.3	34.7	36.5	50.2	57.8	66.9	64.8	63.5	65.6	58.7	44.9	37.4	51.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	8	9	19	26	27	30	21	6	0	0	146	
	MAXIMUM <= 32°	0	0	0	0	4	0	0	0	0	0	0	0	4	
	MINIMUM <= 32°	1	0	1	0	0	0	0	0	0	0	0	8	10	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	356	147	92	24	4	0	0	0	0	9	224	455	1311	
	COOLING DEGREE DAYS	24	15	148	239	480	625	661	748	520	239	42	5	3746	
RH	MEAN (PERCENT)	64	44	40	52	53	58	54	47	63	67	65	66	56	
	HOUR 00 LST	70	49	41	56	58	59	54	46	71	72	71	72	60	
	HOUR 06 LST	78	58	59	73	73	77	74	69	82	84	77	83	74	
	HOUR 12 LST	60	41	37	48	49	57	50	43	53	59	57	55	51	
	HOUR 18 LST	46	28	23	32	35	41	37	29	47	53	54	52	40	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	0	0	0	0	0	1	0	0	0	2	3	9	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
PR	MEAN STATION PRESS. (IN.)	29.03	28.90	28.92	28.79	28.82	28.80	28.86	28.86	28.82	28.89	29.07	29.05	28.90	
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	29.97	29.98	29.85	29.87	29.84	29.90	29.90	29.87	29.95	30.15	30.14	29.96	
WINDS	RESULTANT SPEED (MPH)	0.7	1.7	4.2	6.2	7.8	9.5	7.6	7.5	5.3	4.5	1.9	1.3	4.7	
	RES. DIR. (TENS OF DEGS.)	04	09	12	11	12	12	12	12	11	12	08	03	12	
	MEAN SPEED (MPH)	6.7	8.5	9.2	10.4	10.8	10.5	9.0	8.5	7.6	8.1	7.4	6.0	8.6	
	PREVAIL.DIR.(TENS OF DEGS.)	11	12	12	11	12	12	11	11	12	12	11	12	12	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	31	49	33	33	45	40	24	26	35	28	26	26	49	
	DIR. (TENS OF DEGS.)	28	29	35	30	12	16	10	13	06	14	31	29	29	
	DATE OF OCCURRENCE	29	25	24	02	28	12	17	21	04	20	26	21	FEB 25	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	40	63	45	44	63	56	33	38	43	36	38	35	63		
DIR. (TENS OF DEGS.)	31	30	36	30	10	16	10	14	06	14	33	31	10		
DATE OF OCCURRENCE	29	25	24	02	28	12	17	20	04	20	22	29	MAY 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.33	T	0.06	0.36	1.47	1.76	2.77	0.74	4.44	1.40	0.66	0.48	15.47	
	GREATEST 24-HOUR (IN.)	1.20	T	0.06	0.33	0.80	1.26	2.21	0.51	1.97	0.92	0.33	0.25	2.21	
	DATE OF OCCURRENCE	08-09	20	31	02	24	13-14	21	21	20	15-16	24-25	26-27	JUL 21	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	0	1	2	7	7	5	2	10	4	7	5	54	
PRECIPITATION 0.10	2	0	0	1	4	5	3	2	6	4	2	2	31		
PRECIPITATION 1.00	0	0	0	0	0	0	1	0	1	0	0	0	2		
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 (KDRT)

LATITUDE: 29° 22'N LONGITUDE: 100° 55'W ELEVATION (FT): GRND: 999 BARO: 1029 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	63.8	68.6	76.2	83.6	89.8	94.7	96.6	97.1	90.8	82.4	72.0	64.0	81.6
	MEAN DAILY MAXIMUM	56	63.6	68.5	76.6	83.9	89.3	94.7	96.9	97.0	91.0	82.3	71.8	64.2	81.7
	HIGHEST DAILY MAXIMUM	51	90	99	101	106	109	112	108	109	110	106	96	90	112
	YEAR OF OCCURRENCE		2000	2011	1971	1984	2000	1988	2000	1969	2000	1979	1988	1977	JUN 1988
	MEAN OF EXTREME MAXS.	56	80.6	85.7	91.5	96.7	100.3	102.4	103.0	102.8	99.5	93.5	85.8	80.0	93.5
	NORMAL DAILY MINIMUM	30	40.6	45.0	52.1	59.6	67.9	73.4	75.2	75.3	69.8	61.0	49.6	40.8	59.2
	MEAN DAILY MINIMUM	56	40.2	44.3	51.9	59.8	67.1	72.8	74.9	74.7	69.5	60.2	49.0	40.7	58.8
	LOWEST DAILY MINIMUM	51	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.	56	25.1	28.5	33.9	44.1	54.8	64.6	69.6	69.3	57.4	44.2	32.5	26.3	45.9
	NORMAL DRY BULB	30	52.2	56.8	64.1	71.6	78.9	84.0	85.9	86.2	80.3	71.7	60.8	52.4	70.4
	MEAN DRY BULB	56	52.0	56.4	64.2	71.9	78.2	83.9	85.9	85.9	80.3	71.2	60.4	52.5	70.2
	MEAN WET BULB	17	41.1	43.2	50.1	56.6	65.1	69.3	70.1	69.7	67.1	59.7	49.8	41.3	56.9
	MEAN DEW POINT	17	41.5	44.1	50.9	56.5	64.9	69.4	69.5	69.5	66.7	60.3	50.4	40.4	57.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.4	2.0	6.8	15.0	24.9	27.8	28.7	18.6	4.4	0.2	0.0	128.8
	MAXIMUM <= 32	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	MINIMUM <= 32	30	4.1	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	4.0	11.1
	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	399	246	114	25	1	0	0	0	1	23	173	394	1376
	NORMAL COOLING DEG. DAYS	30	3	16	87	223	430	571	648	657	460	230	47	3	3375
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)	37	3.0	1.5	0.8	0.2	0.2	0.1	0.1	0.1	0.2	0.7	2.5	3.3	12.7
	THUNDERSTORMS	43	0.3	0.4	1.4	2.9	5.2	2.8	2.2	2.5	2.2	1.2	0.4	0.3	21.8
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)	17	29.02	28.96	28.88	28.82	28.78	28.79	28.85	28.85	28.85	28.91	28.99	29.01	28.89
	MEAN SEA-LEVEL PRES. (IN)	17	30.10	30.04	29.94	29.87	29.83	29.83	29.89	29.89	29.90	29.97	30.06	30.10	29.95
WINDS	MEAN SPEED (MPH)	17	7.3	8.3	9.6	10.2	10.3	10.6	9.8	8.8	7.6	8.1	7.4	7.0	8.8
	PREVAIL.DIR(TENS OF DEGS)	17	12	12	12	12	12	12	12	12	12	12	12	12	12
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	45	49	45	48	59	51	41	37	45	37	45	40	59
	DIR. (TENS OF DEGS)		31	29	30	29	29	28	06	33	32	34	29	29	29
	YEAR OF OCCURRENCE		1999	2013	2008	2006	2004	1998	2003	2011	2000	2007	2006	2006	MAY 2004
	MAXIMUM 3-SECOND SPEED (MPH)	17	56	63	56	58	72	68	54	51	61	49	54	52	72
	DIR. (TENS OF DEGS)		31	30	30	08	30	26	11	33	08	34	30	31	30
	YEAR OF OCCURRENCE		1999	2013	2008	2004	2004	1997	2012	2011	2009	2007	2006	2012	MAY 2004
PRECIPITATION	NORMAL (IN)	30	0.72	0.88	1.14	1.65	2.81	2.35	1.78	2.18	2.20	2.23	0.93	0.65	19.52
	MAXIMUM MONTHLY (IN)	51	2.52	3.80	3.48	7.51	10.45	5.74	13.18	15.69	15.79	11.33	4.71	3.14	15.79
	YEAR OF OCCURRENCE		2010	1992	2004	1981	2010	1987	1976	1998	1964	1969	2004	1994	SEP 1964
	MINIMUM MONTHLY (IN)	51	T	0.00	T	0.01	0.08	T	0.01	T	.02	0.00	T	T	0.00
	YEAR OF OCCURRENCE		1996	1974	1971	2011	1998	1990	2006	1985	2005	1979	2008	2010	OCT 1979
	MAXIMUM IN 24 HOURS (IN)	51	1.91	2.57	1.81	4.57	7.61	2.69	6.34	11.87	5.52	7.60	2.74	2.40	11.87
	YEAR OF OCCURRENCE		1994	1987	2007	1969	2010	2009	1975	1998	1970	1969	1978	1994	AUG 1998
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.4	5.1	5.4	5.2	6.7	5.7	4.2	4.0	5.3	5.8	4.4	4.9	61.1
	PRECIPITATION >= 1.00	30	0.1	0.2	0.2	0.5	0.7	0.9	0.6	0.4	0.8	0.6	0.2	0.1	5.3
	SNOWFALL	NORMAL (IN)	30	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	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	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	

PRECIPITATION (inches) 2013 DEL RIO (KDRT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	20.85	1.43	1.46	1.94	0.24	28.77
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
2000	0.03	0.94	0.28	0.90	1.03	4.38	0.65	0.11	1.32	5.00	2.82	0.51	17.97
2001	1.08	0.54	0.90	0.22	1.33	T	0.13	0.35	2.24	0.43	1.12	0.35	8.69
2002	0.01	0.02	0.10	1.44	1.81	3.09	0.87	0.63	1.28	7.39	0.73	0.31	17.68
2003	0.32	0.43	0.68	0.09	6.90	1.01	5.34	0.92	3.36	4.47	0.37	0.04	23.93
2004	0.81	0.74	3.48	3.34	2.39	2.28	1.79	2.48	3.96	4.57	4.71	0.40	30.95
2005	0.90	1.38	1.74	0.09	2.49	0.10	3.73	1.69	0.02	8.72	T	0.06	20.92
2006	0.25	0.04	0.16	0.59	1.83	2.07	0.01	1.36	2.38	0.53	0.01	0.36	9.59
2007	2.22	0.03	2.36	1.93	7.93	4.61	4.72	1.25	3.49	0.76	1.18	0.32	30.80
2008	0.08	0.02	0.57	0.06	0.58	2.73	0.97	11.32	0.28	0.16	T	0.41	17.18
2009	0.03	0.00	1.52	1.86	0.46	3.07	0.17	0.06	3.37	0.65	0.71	1.01	12.91
2010	2.52	1.54	1.16	6.03	10.45	0.71	4.72	0.57	2.06	0.01	0.01	T	29.78
2011	0.08	0.15	0.04	0.01	1.07	0.45	0.37	4.49	1.14	0.39	0.75	0.98	9.92
2012	0.48	1.20	1.31	1.20	4.49	0.01	1.00	0.11	3.90	0.06	0.05	0.04	13.85
2013	1.33	T	0.06	0.36	1.47	1.76	2.77	0.74	4.44	1.40	0.66	0.48	15.47
POR= 56 YRS	0.58	0.81	0.90	1.74	2.57	1.90	1.64	1.84	2.54	2.07	0.87	0.58	18.04

WBAN : 22010

AVERAGE TEMPERATURE (°F) 2013 DEL RIO (KDRT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	56.5	63.5	69.3	74.9	83.4	83.8	89.7	88.5	82.9	70.1	56.2	48.0	72.2
2001	50.4	58.0	60.2	74.4	81.2	87.9	89.1	88.3	79.7	71.3	63.3	54.1	71.5
2002	54.5	53.9	63.9	77.0	81.7	85.5	83.7	87.0	81.1	71.8	57.5	52.0	70.8
2003	50.8	54.1	65.3	73.7	82.8	83.2	82.7	86.1	78.3	71.1	61.8	54.0	70.3
2004	54.2	55.3	67.3	68.7	77.6	83.2	84.8	84.3	79.2	73.8	59.1	51.5	69.9
2005	56.2	56.2	62.6	70.8	76.7	84.7	88.0	84.3	85.4	70.9	62.1	51.5	70.8
2006	56.8	56.4	67.9	76.7	81.1	86.0	87.2	87.8	80.0	73.1	64.0	52.7	72.5
2007	47.2	56.2	67.0	68.4	74.8	80.2	81.2	84.1	80.4	73.6	62.3	53.1	69.0
2008	50.9	60.6	65.2	72.5	80.7	87.1	84.4	83.9	77.3	70.8	61.7	53.0	70.7
2009	53.9	61.5	65.4	71.7	80.6	87.3	90.0	89.2	79.3	70.8	60.9	49.0	71.6
2010	49.2	51.6	61.2	70.1	77.5	84.9	83.4	88.0	81.9	72.7	62.0	53.0	69.6
2011	51.8	56.5	70.1	78.4	80.6	88.0	88.8	90.1	82.6	71.9	61.7	50.1	72.6
2012	54.1	57.6	67.7	75.5	78.3	88.5	88.0	89.9	82.3	74.0	65.5	56.5	73.2
2013	54.1	60.0	66.6	71.9	80.1	85.5	86.1	88.9	82.1	72.1	58.7	50.2	71.4
POR= 56 YRS	52.0	56.4	64.2	71.9	78.2	83.9	85.9	85.9	80.3	71.2	60.4	52.5	70.2

HEATING DEGREE DAYS (base 65°F) 2013 DEL RIO (KDRT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0	0	0	34	87	339	268	108	33	15	0	0	884
2000-01	0	0	2	86	272	521	447	206	161	5	0	0	1700
2001-02	0	0	0	6	126	343	333	307	143	11	0	0	1269
2002-03	0	0	0	16	227	398	431	305	71	17	0	0	1465
2003-04	0	0	0	18	168	337	335	280	27	29	2	0	1196
2004-05	0	0	0	3	184	413	282	247	106	17	0	0	1252
2005-06	0	0	0	32	141	413	246	247	63	0	0	0	1142
2006-07	0	0	0	7	92	385	548	252	66	61	0	0	1411
2007-08	0	0	0	16	154	367	433	161	108	7	0	0	1246
2008-09	0	0	0	18	142	367	344	136	110	18	0	0	1135
2009-10	0	0	1	37	148	491	484	370	147	8	0	0	1686
2010-11	0	0	0	5	137	368	402	307	30	1	4	0	1254
2011-12	0	0	0	30	148	453	332	235	78	0	0	0	1276
2012-13	0	0	0	28	78	284	356	147	92	24	4	0	1013
2013-	0	0	0	9	224	455							

WBAN : 22010

COOLING DEGREE DAYS (base 65°F) 2013 DEL RIO (KDRT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2000	11	70	174	318	579	572	774	737	549	249	13	0	4046
2001	0	18	21	294	506	694	757	732	451	211	80	14	3778
2002	14	3	114	376	525	621	584	687	490	236	8	0	3658
2003	1	7	87	282	559	553	559	661	403	216	77	0	3405
2004	6	5	107	150	401	554	621	605	434	282	11	0	3176
2005	15	9	39	196	370	601	719	606	620	223	62	0	3460
2006	0	14	160	356	507	637	693	711	457	266	70	10	3881
2007	0	11	136	171	315	464	507	599	469	288	80	7	3047
2008	0	39	122	240	496	668	605	596	373	202	50	2	3393
2009	2	45	130	225	492	677	781	760	437	224	33	0	3806
2010	2	0	37	167	395	603	576	721	513	249	55	2	3320
2011	0	77	194	408	497	696	747	788	535	250	57	0	4249
2012	0	23	169	322	419	715	722	777	525	315	100	26	4113
2013	24	15	148	239	480	625	661	748	520	239	42	5	3746

SNOWFALL (inches) 2013 DEL RIO (KDRT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	
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													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-06													
2006-07													
2007-08													
2008-09													
POR= 40 YRS	0.0	0.0	0.0	0.0	0.0	T	0.5	0.1	0.1	T	T	0.0	0.7

WBAN : 22010

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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>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</p>	<p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2013 DEL RIO TEXAS (KDRT)

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 History

DEL RIO, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
DEL RIO VAL VERDE COUNTY AP	1951-04-16	1957-09-01	29° 22'	-100° 49'	1096		AIRWAYS, COOP
DEL RIO INTERNATIONAL AP	1963-03-01	1973-01-01	29° 22'	-100° 55'	1026		AIRWAYS, COOP
DEL RIO INTERNATIONAL AP	1981-05-31	1996-04-01	29° 22'	-100° 55'	1026		COOP
DEL RIO INTERNATIONAL AP	1996-04-01	2010-08-01	29° 22'	-100° 55'	999	1 MI NW	ASOS, COOP
DEL RIO INTERNATIONAL AP	1973-01-01	1979-12-31	29° 22'	-100° 55'	1026		COOP, WXSVC
DEL RIO INTERNATIONAL AP	1979-12-31	1980-11-01	29° 22'	-100° 55'	1026		COOP
DEL RIO INTERNATIONAL AP	2010-08-01	Present	29° 22'	-100° 55'	999		ASOS, COOP
DEL RIO VAL VERDE COUNTY AP	1948-07-01	1951-04-01	29° 22'	-100° 49'			AIRWAYS
DEL RIO INTERNATIONAL AP	1980-11-01	1981-05-31	29° 22'	-100° 55'	1026		COOP, WXSVC
DEL RIO VAL VERDE COUNTY AP	1951-04-01	1951-04-16	29° 22'	-100° 49'	1096		AIRWAYS

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1994-05-04	1995-07-01	DAILY	2400	MMTS		
TEMP	1995-07-01	1996-04-01	DAILY	2400	MMTS		
TEMP	1963-03-01	1982-01-01	DAILY	2400			
PRECIP	1982-01-01	1994-05-04	HOURLY	2400			
PRECIP	1982-01-01	1994-05-04	DAILY	2400			
TEMP	1982-01-01	1994-05-04	DAILY	2400			
PRECIP	1963-03-01	1982-01-01	DAILY	2400			
PRECIP	1995-07-01	1996-04-01	DAILY	2400	SRG		
PRECIP	1996-04-01	2010-08-01	HOURLY	2400	TB	RCRD	
TEMP	2010-08-01	Present	DAILY	2400	HYGR		
PRECIP	1994-05-04	1995-07-01	DAILY	2400	SRG		
PRECIP	1995-07-01	1996-04-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2010-08-01	Present	DAILY	2400	PCPNX		
PRECIP	1994-05-04	1995-07-01	HOURLY	2400			
PRECIP	1996-04-01	2010-08-01	DAILY	2400	TB	RCRD	
TEMP	1996-04-01	2010-08-01	DAILY	2400	HYGR		
PRECIP	2010-08-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	

* For explanation of codes and abbreviations 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

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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