

1997

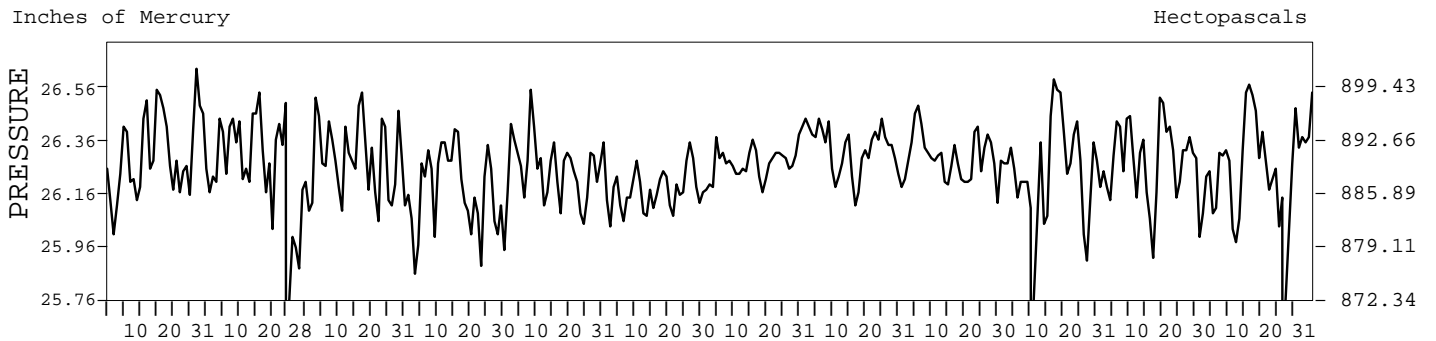
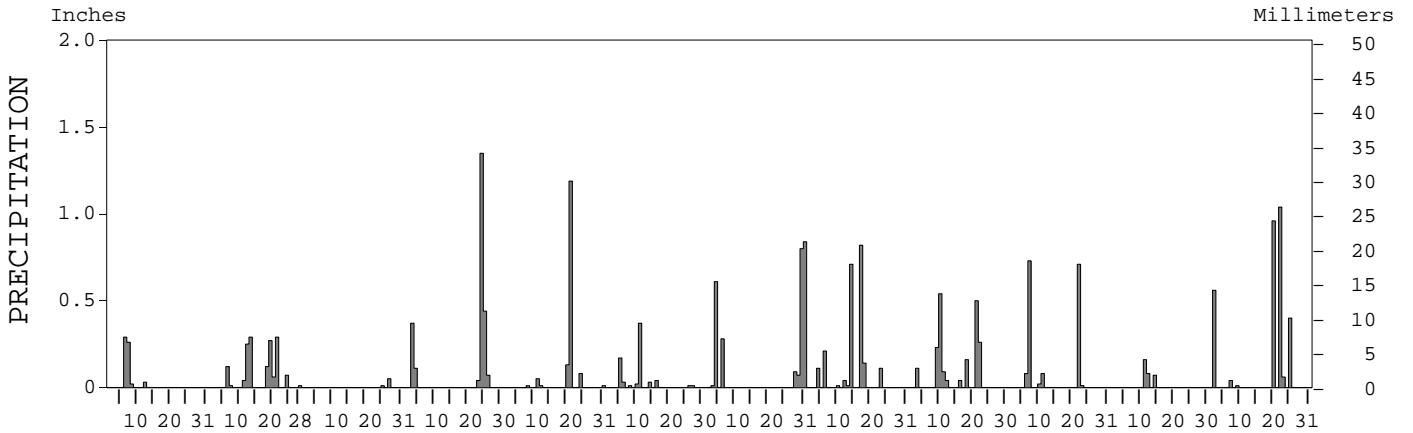
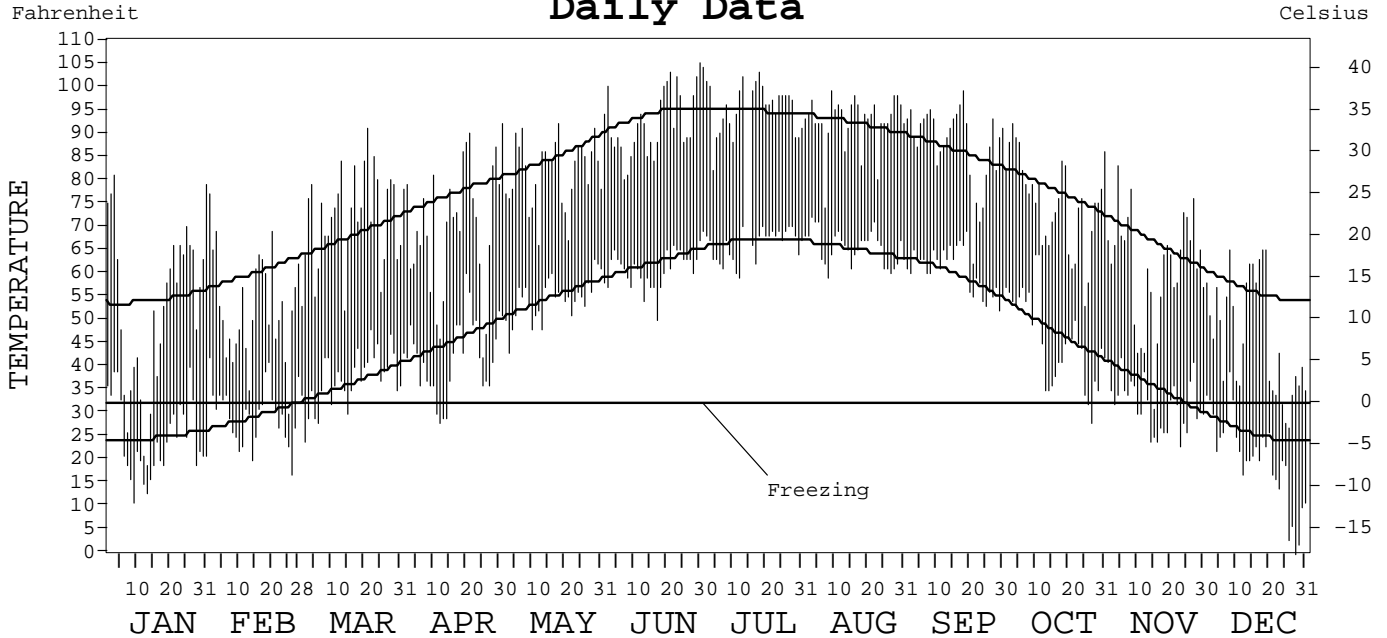
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3520

ROSWELL,
NEW MEXICO (ROW)

Daily Data



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NATIONAL
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Jenneth A. Schickel
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1997

ROSWELL, NM (ROW)

LATITUDE: 33° 18' 29" N LONGITUDE: 104° 32' 28" W ELEVATION (FT): GRND: 3649 BARO: 3653 TIME ZONE: MOUNTAIN (UTC+ 7) WBAN: 23009

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE ° F	MEAN DAILY MAXIMUM	52.7	52.9	71.7	69.5	81.9	92.2		92.6	87.6	75.1	61.2	46.5		
	HIGHEST DAILY MAXIMUM	81	77	91	90	92	105		99	99	92	83	65		
	DATE OF OCCURRENCE	03	01	21	21	18+	30		09	18	03	04	19+		
	MEAN DAILY MINIMUM	24.7	29.8	37.3	41.7	54.4	60.7		65.5	60.6	45.7	31.9	20.3		
	LOWEST DAILY MINIMUM	11	17	24	28	43	50		59	52	28	23	0		
	DATE OF OCCURRENCE	09	26	02	12	03	17		08	29	27	23	28		
	AVERAGE DRY BULB	38.7	41.4	54.5	55.6	68.2	76.5		79.1	74.1	60.4	46.6	33.4		
	MEAN WET BULB	32.0	35.9	42.4	46.2	57.3			67.3	64.3					
	MEAN DEW POINT	23.5	29.8	29.3	36.6	49.3			61.3	59.2					
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	1	1	5	15		27	15	1	0	0		
	MAXIMUM ≤ 32°	4	1	0	0	0	0		0	0	0	1	3		
	MINIMUM ≤ 32°	24	19	6	4	0	0		0	0	2	16	27		
MINIMUM ≤ 0°	0	0	0	0	0	0		0	0	0	0	1			
H/C	HEATING DEGREE DAYS	808	656	319	295	25	0	0	0	7	187	549	974	3820	
	COOLING DEGREE DAYS	0	0	1	20	129	350		446	287	54	0	0		
RH	MEAN (PERCENT)	61	70	45	55	56	54	49	60	65	58	59	71	59	
	HOUR 05 LST	74	83	65	76	77	81	72	83	87	77	73	83	78	
	HOUR 11 LST	52	69	34	45	48	41	41	49	53	45	47	62	49	
	HOUR 17 LST	48	51	23	38	36	34	31	39	45	40	46	60	41	
	HOUR 23 LST	68	74	52	62	62	60	55	68	74	66	68	76	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	4	1	0	1	0	0	1	0	0	2	6	17	
	THUNDERSTORMS	0	1	0	1	1	5	2	3	0	2	0	0	15	
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.)	26.31	26.29	26.29	26.18	26.25	26.18	26.29	26.32	26.31		26.29			
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	30.03	29.98	29.83	29.87			29.90	29.91					
WINDS	RESULTANT SPEED (MPH)	0.7		0.8	0.2	0.7	1.5	1.8	1.5	0.9					
	RES. DIR. (TENS OF DEGS.)	27		25	27	12	17	13	12	32					
	MEAN SPEED (MPH)	8.0	8.1	9.0	11.4	9.0	8.4	8.7	6.9	6.8	8.3	6.3	7.0	8.2	
	PREVAIL. DIR. (TENS OF DEGS.)	16	36	16	36	16	16	15	15	14	14	36	36	16	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	32	34	40	40	38	49	49	37	32	41	33	36	49	
	DIR. (TENS OF DEGS.)	24	21	01	36	01	22	19	15	35	24	23	28	19	
	DATE OF OCCURRENCE	23	28	24	25	08	14	30	17	10	07	27	09+	JUL 30	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	41	49	46	46	60	59	45	43	48	39	43	60	
DIR. (TENS OF DEGS.)	31	20	24	01	01	20	32	16	27	25	24	28	20		
DATE OF OCCURRENCE	03	28	24	25+	08	14	03	17	18	07	27	09+	JUN 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.60	1.53	0.06	2.38	1.48	0.69	2.70	2.16	1.97	1.63	0.31	3.07	18.58	
	GREATEST 24-HOUR (IN.)	0.55	0.38	0.05	1.56	1.32	0.37	1.63	0.96	0.76	0.73	0.16	1.10	1.63	
	DATE OF OCCURRENCE	06-07	18-19	27	24-25	20-21	11	30-31	17-18	21-22	07	11	22-23	JUL 30-31	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	4	11	2	6	7	9	7	9	9	6	3	7	80	
PRECIPITATION ≥ 0.10	2	6	0	4	2	2	4	6	6	2	1	4	39		
PRECIPITATION ≥ 1.00	0	0	0	1	1	0	0	0	0	0	0	1	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	10.4	5.9										21.0		
	GREATEST 24-HOUR (IN.)	4.8	2.6										9.0		
	DATE OF OCCURRENCE	06	13										22-23		
	MAXIMUM SNOW DEPTH (IN.)	9	2										16		
	DATE OF OCCURRENCE	07	14+										25		
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2	2										3			

PRECIPITATION (inches) 1997 ROSWELL, NM (ROW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	1.50	1.17	1.93	0.06	0.57	0.60	5.50	2.67	0.10	0.41	1.11	0.22	15.84
1969	0.01	0.47	1.14	0.44	0.10	0.35	1.32	0.71	2.67	4.34	T	1.78	13.33
1970	0.01	0.28	0.51	0.02	0.48	2.72	2.07	0.52	0.97	0.78	0.09	0.18	8.63
1971	0.18	0.23	0.11	0.26	T	0.18	1.88	3.62	1.57	0.76	0.45	0.80	10.04
1972	0.20	0.00	0.03	0.00	0.16	2.06	5.43	3.35	3.25	1.27	0.49	0.26	16.50
1973	0.73	0.92	1.48	0.15	0.73	0.97	2.26	1.27	2.55	0.51	0.01	0.02	11.60
1974	0.24	0.01	0.11	0.50	T	0.03	0.31	6.48	6.47	3.81	0.09	0.60	18.65
1975	0.20	1.06	0.27	0.29	0.13	0.57	2.75	1.28	2.83	0.16	T	0.05	9.59
1976	0.12	0.22	0.24	0.79	0.82	1.55	2.44	1.98	2.29	0.69	0.41	0.00	11.55
1977	0.07	0.36	0.27	1.25	2.43	0.25	0.46	4.45	0.29	0.62	0.48	0.02	10.95
1978	0.50	0.48	0.39	0.02	1.81	4.31	0.52	3.49	3.58	1.47	1.25	0.43	18.25
1979	0.41	0.44	0.13	0.32	1.25	1.56	1.44	2.28	0.15	0.18	T	0.37	8.53
1980	0.85	0.19	0.00	1.06	0.85	0.29	0.01	2.45	6.58	T	0.77	0.15	13.20
1981	0.27	0.17	0.10	0.79	3.35	4.55	6.27	4.73	2.70	1.02	0.25	0.13	24.33
1982	0.66	0.20	0.12	0.41	0.20	0.76	1.03	0.93	2.00	0.20	0.92	1.62	9.05
1983	0.50	0.22	0.11	0.64	0.93	0.67	0.37	0.80	0.42	3.43	1.52	0.42	10.03
1984	0.04	T	0.46	0.03	1.62	4.52	0.85	5.03	1.04	2.74	1.57	0.85	18.75
1985	0.37	0.04	0.70	2.48	2.22	2.58	2.71	0.34	1.93	0.98	0.12	0.07	14.54
1986	0.67	0.50	0.12	0.31	1.19	5.02	1.11	3.11	3.93	5.48	1.89	1.47	24.80
1987	0.45	2.02	0.20	0.26	1.54	3.69	0.40	4.71	0.78	0.28	0.46	1.41	16.20
1988	0.22	1.48	0.03	0.27	3.42	1.27	4.45	0.51	1.56	0.01	0.03	0.51	13.76
1989	0.32	0.49	0.23	0.07	0.44	0.07	1.14	1.93	1.22	0.10	0.00	0.07	6.08
1990	0.41	0.22	0.74	0.84	0.11	0.02	1.24	1.20	1.44	0.38	0.57	0.32	7.49
1991	0.29	0.33	0.02	0.02	1.04	1.24	6.88	3.40	4.10	0.12	0.95	2.67	21.06
1992	1.03	0.70	0.20	0.65	4.57	2.12	1.08	1.56	0.10	0.50	0.08	0.68	13.27
1993	0.75	0.20	0.01	1.15	0.38	0.56	3.39	2.19	0.88	0.55	0.13	0.16	10.35
1994	0.03	T	0.68	0.40	3.93	0.11	0.76	1.19	1.20	1.65	0.72	0.08	10.75
1995	0.97	0.08	0.17	0.31	0.32	2.28	0.48	0.89	2.78	T	0.10	0.07	8.45
1996	0.16	0.02	0.09	0.27	T	2.66	5.42	3.94	1.27	0.22	0.12	T	14.17
1997	0.60	1.53	0.06	2.38	1.48	0.69	2.70	2.16	1.97	1.63	0.31	3.07	18.58
POR= 103 YRS	0.43	0.47	0.48	0.70	1.12	1.44	1.94	1.82	1.79	1.10	0.50	0.52	12.31

WBAN : 23009

AVERAGE TEMPERATURE (°F) 1997 ROSWELL, NM (ROW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	39.1	43.7	47.7	55.5	66.7	77.0	75.6	75.6	67.2	60.3	44.7	38.2	57.6
1969	45.0	44.6	43.1	61.9	69.1	77.1	82.9	81.4	71.9	58.1	47.1	41.0	60.3
1970	37.0	46.1	46.6	58.0	67.7	74.3	80.3	78.3	71.0	55.7	48.5	43.4	58.9
1971	41.3	42.9	52.9	58.5	68.6	78.1	79.7	74.9	69.3	59.4	48.4	40.8	59.6
1972	40.6	45.7	56.2	63.4	68.3	77.5	79.0	76.0	70.8	59.1	42.9	39.5	59.9
1973	39.0	43.6	52.3	54.5	66.2	75.3	78.8	77.6	69.7	61.4	51.1	41.9	59.3
1974	40.4	43.3	57.6	61.2	73.5	79.2	80.0	74.5	64.4	59.2	47.5	39.5	60.0
1975	41.3	42.3	49.9	56.6	65.9	76.7	77.0	78.3	68.5	62.5	49.5	43.4	59.3
1976	40.4	53.3	54.1	63.7	68.7	79.3	78.6	80.3	71.2	56.2	42.7	39.3	60.7
1977	38.6	48.2	52.1	62.3	73.3	81.6	84.2	83.0	78.4	64.1	53.1	47.0	63.8
1978	36.0	43.6	55.6	66.2	71.5	79.3	83.4	78.0	69.2	60.3	49.0	37.2	60.8
1979	34.9	43.6	50.5	60.6	67.5	75.1	81.0	76.5	72.2	63.8	44.6	40.6	59.2
1980	39.9	44.6	51.1	57.7	68.0	83.5	85.4	78.7	71.6	57.9	43.8	44.0	60.5
1981	41.6	46.2	51.7	63.5	68.5	79.0	79.9	75.7	69.9	59.8	53.7	45.3	61.2
1982	38.9	42.7	53.4	60.5	68.0	76.7	80.9	80.5	73.6	59.4	47.0	37.8	60.0
1983	38.9	45.5	52.8	54.7	66.3	76.5	81.6	81.4	76.1	62.9	51.8	35.2	60.3
1984	38.5	46.5	51.7	60.2	72.5	75.8	79.1	76.2	69.3	57.7	48.5	42.1	59.8
1985	37.0	43.2	54.2	63.4	70.1	75.8	79.4	80.4	70.7	61.1	53.2	40.3	60.7
1986	44.1	46.8	56.2	64.6	69.1	75.9	79.2	78.6	72.1	59.3	46.0	40.0	61.0
1987	39.7	44.9	49.1	57.3	67.5	75.8	80.2	78.7	70.6	63.9	49.0	39.3	59.7
1988	37.6	44.5	51.4	59.7	68.2	77.5	78.6	78.7	72.2	64.0	53.3	40.6	60.5
1989	43.1	43.8	56.6	65.6	74.3	78.4	81.6	79.6	71.3	63.3	51.3	37.2	62.2
1990	42.5	47.0	53.1	62.7	70.5	85.0	79.9	77.7	74.6	62.8	52.5	41.7	62.5
1991	39.8	49.6	55.3	64.1	74.2	79.8	78.6	78.3	68.1	61.7	46.4	41.5	61.5
1992	38.4	47.2	54.2	62.8	67.0	75.4	80.6	78.9	74.2	64.4	45.9	41.1	60.8
1993	42.3	45.6	53.8	62.3	70.1	79.9	83.0	79.8	72.4	59.3	45.4	42.2	61.3
1994	41.2	44.8	54.0	61.6	70.2	83.6	83.7	82.3	73.7	62.4	51.2	46.0	62.9
1995	43.9	52.1	53.5	60.4	70.5	77.4	82.8	82.4	71.9	63.7	53.4	44.1	63.0
1996	42.6	49.5	50.7	62.3	79.0	81.3	82.1	78.5	70.8	61.1	49.8	44.7	62.7
1997	38.7	41.4	54.5	55.6	68.2	76.5	76.5	79.1	74.1	60.4	46.6	33.4	60.8
POR= 103 YRS	39.6	44.2	51.4	59.8	68.4	76.9	78.5	77.9	70.9	60.0	48.0	40.0	59.6

WBAN : 23009

HEATING DEGREE DAYS (base 65°F) 1997 ROSWELL, NM (ROW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0	0	26	171	603	823	615	564	672	109	38	2	3623
1969-70	0	0	0	257	529	738	861	523	565	214	55	17	3759
1970-71	0	0	56	298	490	662	729	612	384	206	30	0	3467
1971-72	0	0	82	183	495	743	750	551	273	109	25	0	3211
1972-73	0	0	13	216	660	785	800	594	386	310	73	0	3837
1973-74	0	0	27	130	410	710	755	599	233	151	11	0	3026
1974-75	0	0	104	190	518	784	729	630	462	269	36	1	3723
1975-76	0	0	48	104	462	662	755	334	334	90	36	0	2825
1976-77	0	0	18	275	663	789	811	463	393	109	0	0	3521
1977-78	0	0	0	68	349	551	895	593	294	45	39	3	2837
1978-79	0	0	55	174	468	856	929	591	444	161	51	2	3731
1979-80	0	0	27	115	602	748	773	587	425	222	53	0	3552
1980-81	0	0	19	234	630	645	719	521	404	100	21	0	3293
1981-82	0	0	11	183	333	603	803	616	357	160	27	0	3093
1982-83	0	0	2	195	530	834	802	541	372	322	44	2	3644
1983-84	0	0	7	115	389	920	817	529	404	164	19	0	3364
1984-85	0	0	56	227	488	704	863	604	332	85	10	1	3370
1985-86	0	0	46	131	344	759	641	504	271	77	31	0	2804
1986-87	0	0	0	181	564	770	779	556	484	243	22	0	3599
1987-88	0	0	4	71	476	788	844	588	417	163	36	0	3387
1988-89	0	7	7	56	359	749	673	590	275	90	7	0	2813
1989-90	0	0	23	121	405	854	691	497	366	119	62	0	3138
1990-91	0	0	0	98	369	715	775	426	299	68	8	0	2758
1991-92	0	0	59	152	551	719	815	509	325	117	32	3	3282
1992-93	0	0	0	64	563	734	697	538	341	124	24	0	3085
1993-94	0	0	8	221	583	699	733	559	338	136	16	0	3293
1994-95	0	0	8	127	417	581	648	357	359	180	11	0	2688
1995-96	0	0	31	74	343	643	686	449	440	130	0	0	2796
1996-97	0	0	22	182	449	621	808	656	319	295	25	0	3377
1997-	0	0	7	187	549	974							

WBAN : 23009

COOLING DEGREE DAYS (base 65°F) 1997 ROSWELL, NM (ROW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	21	174	372	560	516	215	52	0	0	1910
1970	0	0	0	9	146	303	482	420	244	16	0	0	1620
1971	0	0	14	17	146	402	463	315	220	17	0	0	1594
1972	0	0	7	68	133	382	438	350	197	41	0	0	1616
1973	0	0	0	2	118	316	434	400	174	25	0	0	1469
1974	0	0	11	45	283	433	473	299	95	16	0	0	1655
1975	0	0	0	19	67	361	379	416	159	33	3	0	1437
1976	0	0	7	57	159	436	429	478	211	9	0	0	1786
1977	0	0	0	34	269	505	602	564	408	46	0	0	2428
1978	0	0	8	91	244	438	576	410	187	37	0	0	1991
1979	0	0	0	35	133	311	506	364	251	84	0	0	1684
1980	0	0	0	8	152	564	636	430	223	21	1	0	2035
1981	0	0	0	59	133	430	467	336	166	31	0	0	1622
1982	0	0	6	35	124	357	499	488	266	27	0	0	1802
1983	0	0	0	21	89	353	523	512	346	58	0	0	1902
1984	0	0	2	26	256	331	443	356	189	6	0	0	1609
1985	0	0	8	44	175	332	457	485	224	18	0	0	1743
1986	0	0	6	74	167	331	447	429	221	10	0	0	1685
1987	0	0	0	17	108	330	478	432	176	43	0	0	1584
1988	0	0	0	11	140	382	430	441	230	32	15	0	1681
1989	0	4	19	115	303	412	523	460	217	75	0	0	2128
1990	0	0	4	57	241	607	472	403	295	37	2	0	2118
1991	0	0	3	48	300	451	431	419	158	59	0	0	1869
1992	0	0	0	56	101	319	492	436	283	52	0	0	1739
1993	0	0	0	51	189	454	564	463	236	53	0	0	2010
1994	0	0	6	39	181	566	586	540	277	55	6	0	2256
1995	0	0	11	47	188	378	560	547	246	42	0	0	2019
1996	0	9	0	55	436	499	538	427	204	66	0	0	2234
1997	0	0	1	20	129	350		446	287	54	0	0	

SNOWFALL (inches) 1997 ROSWELL, NM (ROW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0.0	0.0	0.0	0.0	8.5	0.0	T	0.0	10.9	0.0	0.0	0.0	19.4
1969-70	0.0	0.0	0.0	0.0	T	13.9	T	2.0	4.9	0.0	0.0	0.0	20.8
1970-71	0.0	0.0	0.0	0.2	0.0	0.0	2.0	2.4	1.0	0.0	0.0	0.0	5.6
1971-72	0.0	0.0	0.0	0.0	0.0	5.5	1.9	0.0	0.0	0.0	0.0	0.0	7.4
1972-73	0.0	0.0	0.0	0.6	2.6	4.8	6.8	7.5	0.5	1.1	0.0	0.0	23.9
1973-74	0.0	0.0	0.0	0.0	0.0	T	1.0	T	0.2	0.0	0.0	0.0	1.2
1974-75	0.0	0.0	0.0	0.0	0.0	1.4	1.5	3.7	1.4	0.0	0.0	0.0	8.0
1975-76	0.0	0.0	0.0	0.0	T	0.3	1.2	0.0	2.4	0.0	0.0	0.0	3.9
1976-77	0.0	0.0	0.0	4.2	4.1	0.0	0.4	0.4	0.9	0.0	0.0	0.0	10.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.3	0.7	0.0	T	0.0	6.2
1978-79	0.0	0.0	0.0	0.0	0.5	7.7	0.7	6.4	0.0	0.0	0.0	0.0	15.3
1979-80	0.0	0.0	0.0	0.4	0.0	3.8	7.3	4.0	0.0	3.0	0.0	0.0	18.5
1980-81	0.0	0.0	0.0	T	12.3	0.6	5.3	0.0	T	0.0	0.0	0.0	18.2
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	6.9	2.6	1.2	T	0.0	0.0	10.7
1982-83	0.0	0.0	0.0	0.0	7.1	8.0	2.4	1.0	0.0	5.3	0.0	0.0	23.8
1983-84	0.0	0.0	0.0	0.0	0.0	3.5	0.5	T	4.8		0.0	0.0	
1984-85	0.0	0.0	0.0	0.0	0.0	5.4	1.9	0.3	0.0	0.0	0.0	0.0	7.6
1985-86	0.0	0.0	0.0	0.0	0.0	1.1	5.4	4.9	0.0	0.0	0.0	0.0	11.4
1986-87	0.0	0.0	0.0	T	0.5	3.4	5.5	8.7	0.5	0.0	0.0	0.0	18.6
1987-88	0.0	0.0	0.0	0.0	0.0	15.3	0.4	16.9	T	T	0.0	0.0	32.6
1988-89	0.0	0.0	0.0	0.0	T	3.9	T	1.2	4.3	T	0.8	0.0	10.2
1989-90	0.0	0.0	1.0	0.0	0.0	T	2.7	T	1.2	0.0	0.0	0.0	4.9
1990-91	0.0	0.0	0.0	0.0	0.5	0.8	1.9	0.0	0.0	T	T	1.0	4.2
1991-92	0.0	0.0	0.0	1.2	T	2.9	4.4	0.0	0.0	T	0.0	T	8.5
1992-93	0.0	0.0	0.0	0.0	T	5.0	T	0.0	T	0.0	0.0	0.0	5.0
1993-94	0.0	0.0	0.0	1.8	T	T	0.6	0.0	0.9	0.0	T	0.0	3.3
1994-95	0.0	0.0	0.0	0.0	T	0.0	1.0	0.0	0.0	0.0	0.0	T	1.0
1995-96	0.0	0.0	0.0	0.0	1.0	0.7	1.4	0.3	1.4	0.4	0.0	T	5.2
1996-97	0.0	0.0	0.0	0.1	T	0.5	10.4	5.9					
1997-						21.0							
POR= 48 YRS	0.0	0.0	0.0	0.2	1.2	3.3	2.8	2.6	1.2	0.3	0.0	0.0	11.6

WBAN : 23009

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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1997
ROSWELL,
NEW MEXICO (ROW)

The climate at Roswell conforms to the basic trend of the four seasons, but shows certain deviations related to geography. Higher landmasses almost surround the valley location, with a long, gradual descent from points southwest through west and north. The topography acts to modify air masses, especially the cold outbreaks in wintertime. Downslope warming of air, as well as air interchange within a tempering environment, often prevents sharp cooling. Moreover, the elevation of 3,600 feet is high enough to moderate the heat and humidity compared to locations to the south and east.

Summer moves into a wet phase that delivers the most important rain of the year. Rather frequent showers and thunderstorms from June through September account for over half of the annual precipitation. Storm clouds that build up from the heat of the day, overspread the sky on many afternoons, retarding a further rise in temperature. At the same time, relative humidity shows moderation, ranging from about 70 percent in early morning to 30 percent in the mid-afternoon. Temperatures are quite warm on most summer days with readings of 100 degrees or higher occurring on 10 days in an average year.

Rainfall tapers off markedly in the fall with decline in storm activity. This leaves usually agreeable conditions because of low wind movement and mostly clear skies. Frosty nights alternate with warm days. Relative humidity reaches rather low levels in autumn, but dryness is not as rigorous as in the spring.

In winter, sub-freezing at night is tempered by considerable warming during the day. Zero or lower temperatures occur on only one day in an average winter. Sub-zero cold spells are of short duration. Winter is the season of least precipitation.

Spring ushers in the driest season of the year with respect to relative humidity. Wind movement shows a large increase, especially from the plateau areas of the west. Most of the 60 days a year with winds of 25 mph or more occur from February to May. Destructive storms seldom strike the city, but minor damage results from thundersqualls or hailstorms about once a year. Rain is most erratic in spring, ranging from none of consequence in some years, to excessive amounts in others.

STATION LOCATION

ROSWELL, NEW MEXICO

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUGUST 1963	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND											
							WIND	TEMP	REL	MO	WIND	TEMP	REL	MO	WIND			
<u>COOPERATIVE</u> Downtown vacant lot	6/01/94	12/31/04		33°24'	104°31'	3560			5									Open lot with no important obstructions.
<u>CITY</u> 608 North Main Street	9/01/04	6/30/13	App. same	33°24'	104°31'	3560	57	11	9			4						First Order Station, yard exposure, reasonably open.
Room 327, P.O. Bldg. 313 North Richardson	6/30/13	6/04/47	2 blks. S 1 blk. W	33°24'	104°31'	3563	85	76	75			69	69	68				Roof exposure, fairly open but irregular.
<u>AIRPORT</u> City Building Municipal Airport	6/04/47	5/10/50	1.25 mi. WNW	33°24'	104°32'	3611	30	6	5			4	4	4				Roof exposure, slight building effects.
Administration Building Municipal Airport	5/10/50	12/01/72	150 ft. W	33°24'	104°32'	d3612	a18 g20	f22	f21	e25	b19	b19	b19	c4				a - 46 feet to 4/30/51 and 52 feet to 7/31/60. b - 30 feet from 4/30/51 to 12/1/54. c - Added 3145 feet west of office 9/1/60. Decommissioned 1/15/69. d - Added 3617 feet 9/1/60-1/15/69. e - Added 3/1/62. f - Data source except period 9/1/60-1/15/69. g - Direct reading sensor on field effective 4/5/61.
FAA/NWS Building Industrial Air Center	12/01/72	Present	8 mi. S	33°18'	104°32'	3649	20	5	5	7	3	3 j	3 h3	i5	NA			h - Moved 100' SW 6/11/82. i - Moved 10' NE & type change 11/06/85. j - Removed 8/1988. S ASOS Commissioned 10/01/96

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
INQUIRIES/COMMENTS CALL: (704) 271-4800

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