

2001

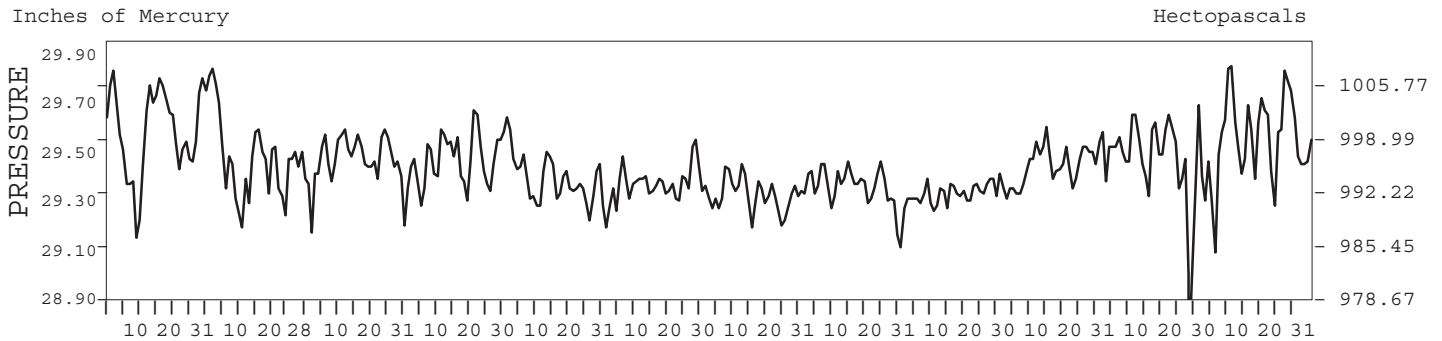
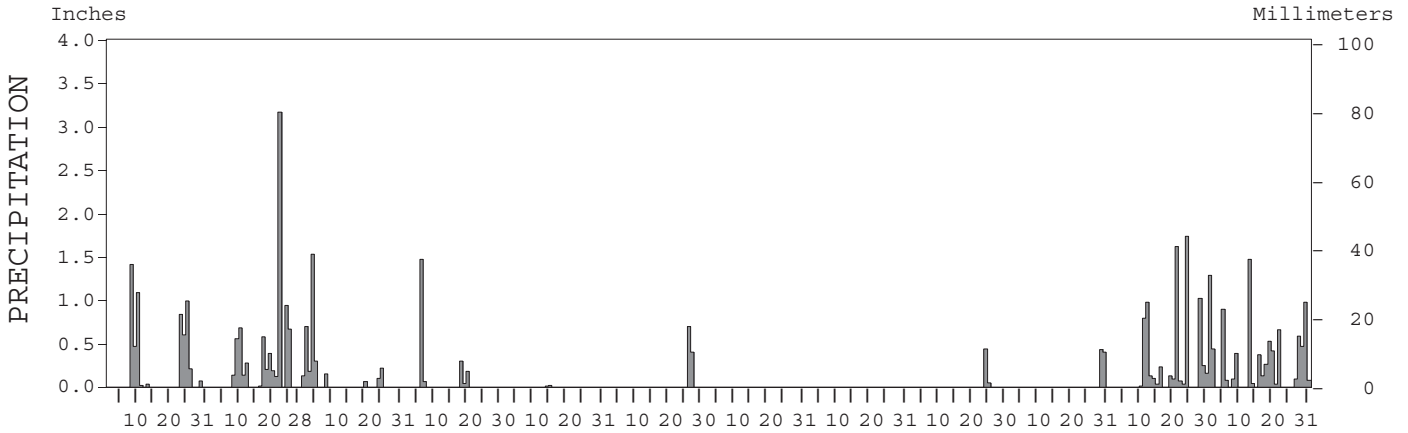
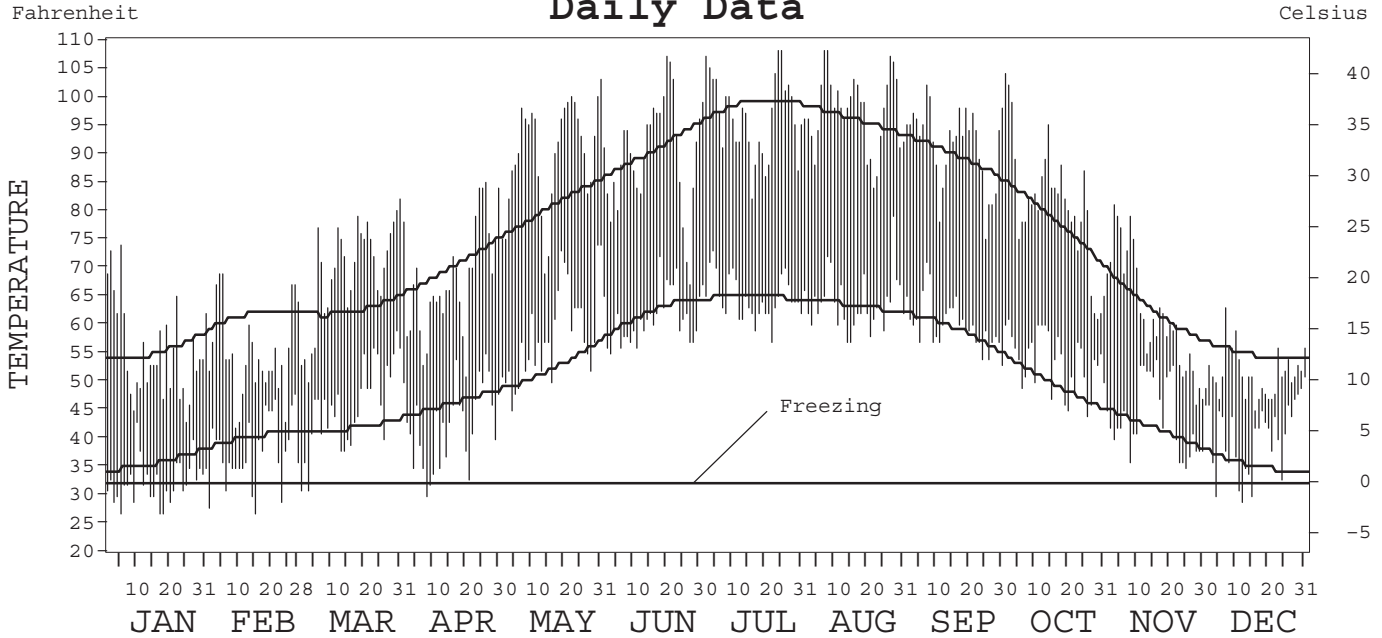
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0898-3585

REDDING,
CALIFORNIA (RDD)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2001

REDDING, CA (RDD)

LATITUDE: 40° 30' 54" N LONGITUDE: 122° 18' 48" W ELEVATION (FT): GRND: 510 BARO: 513 TIME ZONE: PACIFIC (UTC + 8) WBAN: 24257

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	55.4	55.2	69.3	68.1	89.8	89.6	96.6	97.4	91.5	81.0	62.1	51.5	75.6	
	HIGHEST DAILY MAXIMUM	74	69	82	85	103	107	108	108	102	104	81	63	108	
	DATE OF OCCURRENCE	05	05+	31	26	31	20	25+	08+	07	01	03	07	AUG 08+	
	MEAN DAILY MINIMUM	32.6	38.0	45.7	42.7	58.2	61.1	64.8	63.8	60.0	53.6	43.9	40.5	50.4	
	LOWEST DAILY MINIMUM	27	27	31	30	45	55	57	57	53	44	35	29	27	
	DATE OF OCCURRENCE	18+	15	03+	08	04	03	22	15+	30	26	25	12	FEB 15	
	AVERAGE DRY BULB	44.0	46.6	57.5	55.4	74.0	75.4	80.7	80.6	75.8	67.3	53.0	46.0	63.0	
	MEAN WET BULB	38.8	41.3	49.5	47.4	58.0		64.3	62.4	60.6	54.4	48.1	43.8		
	MEAN DEW POINT	32.6	34.1	41.2	38.0	43.7		52.8	48.8	49.0	42.8	43.3	40.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	19	16	26	26	20	4	0	0	0	111
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM ≤ 32°	17	5	2	2	0	0	0	0	0	0	0	4	30		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	643	507	236	293	6	3	0	0	45	351	581	2665		
	COOLING DEGREE DAYS	0	0	11	11	294	321	495	493	331	125	0	2081		
RH	MEAN (PERCENT)	70	68	60	56	38	37	41	37	45	48	75	83	55	
	HOUR 04 LST	81	77	75	75	58	55	63	57	64	63	87	90	70	
	HOUR 10 LST	69	70	54	48	32	32	35	32	39	41	72	82	50	
	HOUR 16 LST	53	55	42	36	20	23	21	18	23	31	57	73	38	
	HOUR 22 LST	75	71	65	61	42	38	45	40	49	53	80	86	59	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	1	0	2	0	0	0	0	0	0	0	1	8	
	THUNDERSTORMS	0	1	0	1	0	0	1	0	0	0	0	0	3	
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.)	29.59	29.47	29.47	29.45	29.40	29.37	29.32	29.35	29.33	29.45		29.56		
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.02	30.00	29.99	29.92		29.84	29.87	29.85	29.98		30.10		
WINDS	RESULTANT SPEED (MPH)	2.1	1.8	2.8	1.2	1.9	0.3	2.2	1.6	0.7	2.2	1.0	1.4	0.3	
	RES. DIR. (TENS OF DEGS.)	01	04	36	20	03	24	17	14	20	36	20	19	04	
	MEAN SPEED (MPH)	4.7	7.9	6.1	6.3	7.5	6.7	5.9	5.6	5.0	5.3	5.4	6.2	6.0	
	PREVAIL. DIR. (TENS OF DEGS.)	36	36	36	18	36	35	17	16	36	36	18	17	36	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	33	39	36	30	25	24	21	28	29	40	49	49	
	DIR. (TENS OF DEGS.)	16	01	17	18	01	02	17	18	06	18	17	18	18	
	DATE OF OCCURRENCE	10	13	04	16	30	13	06	20	24+	30	28	01	DEC 01	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	41	40	47	40	37	33	31	30	33	37	49	59	59	
DIR. (TENS OF DEGS.)	18	36	16	17	02	01	16	20	07	18	19	18	18		
DATE OF OCCURRENCE	25	13	04	16+	30	13	06	22	24+	30	28	01	DEC 01		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.73	8.07	3.37	2.05	0.03	1.10	T	0.00	0.49	0.83	7.38	9.31	38.36	
	GREATEST 24-HOUR (IN.)	1.44	3.17	1.65	1.47	0.03	0.70	T	0.00	0.49	0.83	1.77	1.51	3.17	
	DATE OF OCCURRENCE	23-24	22	03-04	06	14-15	26	11+		24-25	29-30	23-24	13-14	FEB 22	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	14	9	5	2	2	0	0	2	2	16	20	82	
PRECIPITATION ≥ 0.10	7	13	8	3	0	2	0	0	1	2	11	14	61		
PRECIPITATION ≥ 1.00	2	1	1	1	0	0	0	0	0	0	3	2	10		
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															

PRECIPITATION (inches) 2001 REDDING, CA (RDD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986									2.18	0.80	0.41	1.94	
1987	7.01	4.97	7.00	0.14	0.01	T	0.21	0.00	T	0.48	3.53	9.07	32.42
1988	7.25	0.14	0.52	3.29	3.99	1.74	T	T	0.00	0.11	10.11	3.68	30.83
1989	2.14	1.11	10.94	3.76	0.73	0.95	0.00	0.23	4.83	3.69	1.20	0.00	29.58
1990	8.14	1.37	2.40	0.65	6.60	0.82	0.49	1.06	1.17	0.83	0.67	0.56	24.76
1991	0.89	3.97	9.67	0.52	2.13	0.11	0.03	0.00	0.00	1.93	1.27	5.09	25.61
1992	3.03	10.15	3.41	1.91	0.03	1.66	T	T	0.00	6.26	0.92	10.37	37.74
1993	10.38	7.52	6.34	3.66	6.72	0.65	0.00	0.99	0.00	2.92	1.52	3.16	43.86
1994	3.34	6.41	1.92	1.86	1.41	0.03	0.00	0.00	0.20	0.04	5.01	5.45	25.67
1995	22.93	1.65	14.78	4.26	0.97	1.93	T	0.00	0.00	T	0.26	10.81	57.59
1996	9.66	9.06	1.84	2.54	4.28	0.14	0.33	T	0.55	1.25	3.00	8.38	41.03
1997	6.76	0.72	1.76	2.43	0.43	1.91	0.01	0.63	1.62	3.36	9.06	3.30	31.99
1998	14.00	15.80	5.62	2.83	7.67	1.71	0.14	T	0.06	2.30	9.29	2.17	61.59
1999	3.11	7.66	3.43	1.73	0.58	0.40	0.00	0.23	T	1.02	5.51	0.63	24.30
2000	7.67	9.28	4.08	3.57	1.18	1.11	0.11	T	3.08	3.74	0.98	1.89	36.69
2001	5.73	8.07	3.37	2.05	0.03	1.10	T	0.00	0.49	0.83	7.38	9.31	38.36
POR= 15 YRS	7.48	5.86	5.15	2.36	2.45	0.97	0.05	0.18	0.88	1.86	3.79	4.70	35.73

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AVERAGE TEMPERATURE (°F) 2001 REDDING, CA (RDD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986		58.3							67.8	63.8	54.8	45.5	
1987	43.3	49.3	51.6	63.3	72.1	79.3	78.1	81.2	74.1	68.2	52.2	44.9	63.1
1988	45.5	53.9	56.5	59.7	63.5	75.0	86.7	81.9	76.5	69.1	50.7	45.4	63.7
1989	44.5	45.9	52.0	63.0	66.5	76.1	80.2	77.5	71.3	61.0	53.6	46.4	61.5
1990	45.0	45.9	55.2	64.6	65.4	75.0	83.7	79.6	74.9	65.4	51.6	40.3	62.2
1991	45.8	53.7	48.7	56.4	63.6	73.3	85.0	77.8	79.1	68.9	54.4	46.1	62.7
1992	44.5	53.2	55.3	61.5	75.1	76.1	80.3	81.6	74.5	65.9	52.0	43.1	63.6
1993	43.4	47.2	57.0	57.4	65.1	73.5	81.1	78.5	74.0	65.2	50.7	45.5	61.6
1994	48.3	45.8	55.8	60.1	67.5	74.5	84.0	78.5	74.7	62.8	45.7	41.9	61.6
1995	48.2	53.0	51.4	56.0	64.3	72.1	80.4	79.2	75.6	65.6	57.3	48.3	62.6
1996	45.6	51.7	55.2	58.1	65.5	77.0	83.8	81.8	72.4	61.9	52.9	48.5	62.9
1997	46.5	51.2	56.3	59.4	71.2	74.9	81.6	77.6	72.7	60.4	52.3	45.7	62.5
1998	46.2	46.5	52.2	55.9	57.1	69.8	81.5	81.5	75.8	61.9	50.2	44.1	60.2
1999	47.5	45.5	49.0	59.0	67.3	75.0	79.3	77.9	76.5	64.8	53.4	47.4	61.9
2000	46.4	48.7	53.8	60.1	65.8	78.9	77.5	78.4	73.4	61.3	47.4	47.3	61.6
2001	44.0	46.6	57.5	55.4	74.0	75.4	80.7	80.6	75.8	67.3	53.0	46.0	63.0
POR= 15 YRS	45.7	49.1	53.7	59.5	67.2	75.1	81.5	79.6	74.3	64.8	52.1	45.5	62.3

HEATING DEGREE DAYS (base 65°F) 2001 REDDING, CA (RDD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86													
1986-87			87	94	309	598	665	435	408	90	18	0	
1987-88	0	0	0	27	381	615	601	315	257	168	124	43	2531
1988-89	0	0	0	30	421	602	627	530	397	140	49	4	2800
1989-90	0	0	12	135	336	569	611	531	301	52	76	7	2630
1990-91	0	1	0	50	396	760	591	310	499	253	106	0	2966
1991-92	0	0	0	105	314	579	628	337	295	120	0	15	2393
1992-93	0	0	0	57	386	671	663	493	242	242	54	21	2829
1993-94	0	0	0	56	426	599	509	532	279	157	55	2	2615
1994-95	0	0	0	93	572	710	513	330	415	265	106	24	3028
1995-96	0	0	0	52	231	509	597	382	300	221	70	0	2362
1996-97	0	0	1	171	354	504	565	378	273	168	21	6	2441
1997-98	0	0	8	145	378	590	576	511	393	276	241	8	3126
1998-99	0	0	9	121	436	642	535	539	487	213	65	24	3071
1999-00	0	0	0	72	342	535	568	467	339	147	116	1	2587
2000-01	0	0	10	162	522	544	643	507	236	293	6	3	2926
2001-	0	0	0	45	351	581							

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COOLING DEGREE DAYS (base 65°F) 2001 REDDING, CA (RDD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986									177	63	9	0	
1987	0	0	0	45	245	439	412	512	279	132	1	0	2065
1988	0	0	4	16	82	349	679	531	350	165	0	1	2177
1989	0	0	0	85	103	344	477	394	210	17	0	0	1630
1990	0	0	1	47	97	314	586	463	306	67	0	0	1881
1991	0	0	0	2	72	257	627	404	430	234	3	0	2029
1992	0	0	0	22	318	355	481	521	291	90	0	0	2078
1993	0	0	0	19	65	282	504	425	279	71	4	0	1649
1994	0	0	1	16	140	296	594	425	299	29	0	0	1800
1995	0	0	0	0	92	244	484	447	325	81	4	0	1677
1996	0	4	1	22	93	367	614	528	229	83	0	0	1941
1997	0	0	9	10	225	312	522	394	244	11	3	0	1730
1998	0	0	0	11	2	160	518	519	340	31	0	0	1581
1999	0	0	0	40	145	330	449	408	350	75	0	0	1797
2000	0	0	0	9	147	425	396	424	269	54	0	0	1724
2001	0	0	11	11	294	321	495	493	331	125	0	0	2081

SNOWFALL (inches) 2001 REDDING, CA (RDD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86													
1986-87			0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	
1987-88	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1988-89	0.0	0.0	0.0	0.0	T	17.0	3.2	T	T	T	0.0	0.0	20.2
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	T	0.0	1.5	0.0	2.9
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.4	T	0.0	0.0	0.0	0.0	0.4
1993-94	0.0	T	0.0	0.0	0.0	0.0	0.0	0.9	T	0.0	0.0	0.0	0.9
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	10.9	T	T	T	0.0	0.0	10.9
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-													
POR= 9 YRS	0.0	T	0.0	0.0	T	1.8	1.4	0.2	0.2	T	0.2	T	3.8

WBAN : 24257

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 EIGHTS (OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2001 REDDING, CALIFORNIA (RDD)

Redding, the county seat of Shasta County, is located on the Sacramento River, at the extreme northern in of California's rich Central Valley. It is often referred to as "The Hub City of Northern California", because of it's strategic, central location.

The portion of the Sacramento Valley where Redding lies is bounded in three directions by several mountain ranges. The Trinity Mountains, to the West, are generally 4,000 to 5,000 feet in elevation, but with peaks to near 7,000 feet. To the north, the southern portion of the Cascade Range forms a large part of the very rugged terrain. To the east, the northern slopes of the Sierra Nevada dominate. The elevation of that portion of the Valley where Redding lies is about 500 feet.

The configuration of the mountains on either side of the Sacramento Valley forms a funnel that results in a concentration of precipitation near the upper end of the valley during periods of winter storms with southerly winds.

Winters are cool and wet, with the majority of rain falling during the months from November through April. Normal rainfall for Redding is over 33 inches. Snowfall, while unusual, does occur but seldom remains on the ground for more than a day.

Summers are hot and dry. Daily highs over 100 degrees are common, and 110 degrees is not unusual. What little rainfall occurs during the summers are from the occasional thunderstorm.

Winds are profoundly influenced by the mountains in the area. The general north-south orientation of the major mountain chains reduces east-west air flow to a minimum. Prevailing winds are from the north or northwest, and to a lesser extent, from the south or southeast.

STATION LOCATION

REDDING, CALIFORNIA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	RAINFALL GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
AIRPORT																	
USFS Operations Bldg. Redding Municipal AP	8/22/86	07/01/96	NA	40°30'	122°18'	502	a33	4	4	35	4	NA	4	5	NA	WSO expanded. Operations for Mt. Shasta and Red Bluff consolidated at Redding, CA. a. Effective 1/26/86.	
Redding Municipal	07/01/96	Present	NA	40°31'	122°19'	b510									S	ASOS Commissioned 07/01/96 b. Ground elevation.	

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