



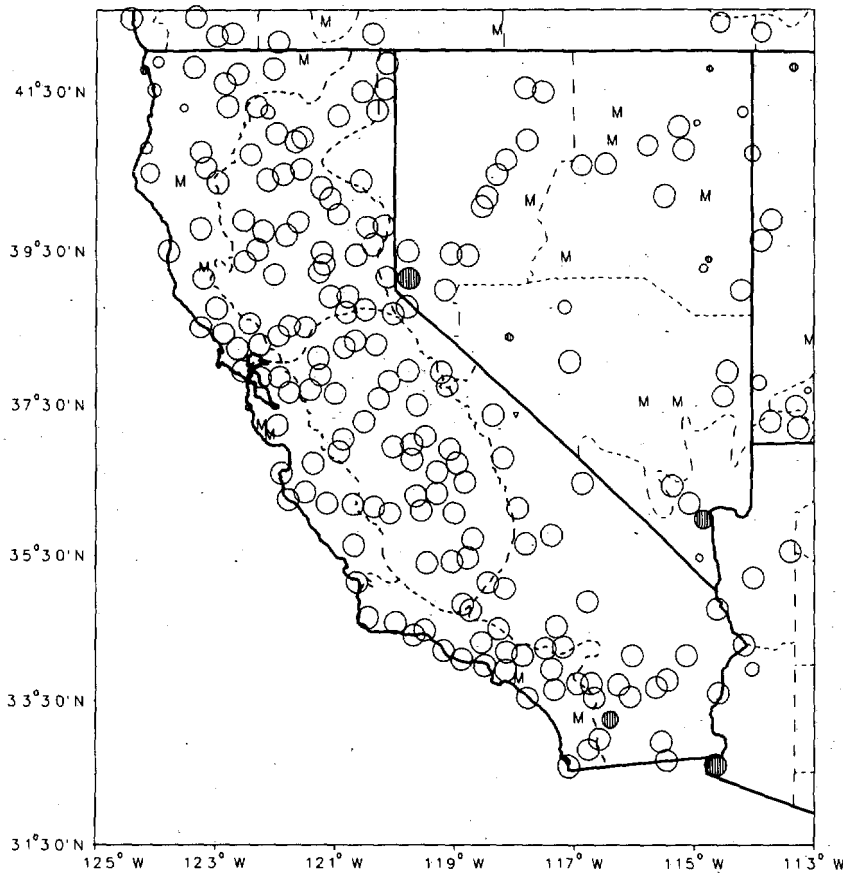
# CLIMATOLOGICAL DATA CALIFORNIA

JULY 1989

VOLUME 93 NUMBER 7

## MONTHLY PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951-1980)

- M INCOMPLETE DATA FOR THE MONTH
- ▽ EXACTLY NORMAL
- 5, 10, 20... 50% OR MORE BELOW NORMAL
- 10, 20, 40... 100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). IT IS COMPILED USING INFORMATION FROM WEATHER OBSERVING SITES SUPERVISED BY NOAA/NATIONAL WEATHER SERVICE AND RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER (NCDC), ASHEVILLE, NORTH CAROLINA 28801."

*Kenneth D. Wadsworth*

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

# noaa

NATIONAL  
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ATMOSPHERIC ADMINISTRATION

NATIONAL  
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AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE NORTH CAROLINA

# TEMPERATURE AND PRECIPITATION EXTREMES

CALIFORNIA  
JULY 1989

CALIFORNIA  
HIGHEST TEMPERATURE 127  
LOWEST TEMPERATURE 18  
GREATEST TOTAL PRECIPITATION 1.50  
LEAST TOTAL PRECIPITATION 1.00  
GREATEST 1 DAY PRECIPITATION 1.30

JULY 8  
JULY 1  
  
JULY 27

DEATH VALLEY  
BODIE  
DEEP CANYON LABORATORY  
356 STATIONS  
GOLD ROCK RANCH



























# DAILY PRECIPITATION (INCHES)

CALIFORNIA  
JULY 1989

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
EL CENTRO 2 SSH	.00																																
EL MIRAGE FIELD	.05																																
FAIRMONT	.00																																
GOLD ROCK RANCH	1.30																																
GOLDSTONE ECHO 2	.00																																
HAIWEE	.00																																
HAYFIELD PUMPING PLANT	.00																																
IMPERIAL	.00																																
INDEPENDENCE	.00																																
INDIO FIRE STATION	.00																																
INTOKERN	.00																																
IRON MOUNTAIN	.00																																
LAKE ARROWHEAD	.00																																
LAKE SABRINA	.80																																
LANCASTER FSS	.00																																
LEE VINING	.00																																
MECCA FIRE STATION	.00																																
MITCHELL CAVERNS	.34																																
MOJAVE	.00																																
MOUNTAIN PASS	.30																																
NEEDLES FAA AIRPORT	.07																																
NILAND	.00																																
OCOTILLO 2	.39																																
PALMDALE	.00																																
PALM SPRINGS	T .00																																
PARKER RESERVOIR	.14																																
PEARBLOSSOM	.00																																
RANDBURG	.00																																
SHOSHONE	.00																																
SNOW CREEK UPPER	.00																																
SOUTH LAKE	.52																																
THERMAL FAA AIRPORT	.01																																
TRONA	.07																																
TWENTYNINE PALMS	T .00																																
VICTORVILLE PUMP PLANT	.00																																
WILDROSE RANGER STN	.00																																

TOTAL SNOWFALL AND NUMBER OF DAYS  
WITH ONE INCH OR MORE ON GROUND

CALIFORNIA  
JULY 1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	
CALIFORNIA																											
NORTH COAST DRAINAGE 01																											
BRIDGEVILLE 4 NNW										1.0		45.0		18.3													
CALLAHAN																											
CECILVILLE 1 SE										2.0		17.0		7.0		14											
COPCO NO 1 DAM										1.0		16.5		18.0		22											
COVELO																											
CRESCENT CITY 7 ENE																											
EUREKA WSO CITY //R																											
FORT JONES RANGER STN																											
GASQUET RANGER STN																											
GREENVIEW																											
GRIZZLY CREEK STATE PA																											
HEALDSBURG NO 2																											
KLAMATH																											
LAVA BEDS NAT MONUMENT																											
ORLEANS																											
SCOTIA																											
TULELAKE																											
UKIAH 4 WSW																											
WEAVERVILLE RANGER STN																											
WEED FIRE DEPT																											
WILLITS 1 NE																											
WILLOW CREEK 1 NW																											
YREKA																											
SACRAMENTO DRAINAGE 02																											
ADIN RANGER STN																											
ALTURAS RANGER STATION																											
AUBURN																											
BOWMAN DAM																											
BUCKHORN																											
BUCKS CREEK P H																											
BURNEY																											
CANYON DAM																											
CHESTER																											
CHICO UNIVERSITY FARM																											
CLEARLAKE 4 SE																											
COLEMAN FISHERIES STN																											
COLFAX																											
DEER CREEK FOREBAY																											
DOBBINS 1 S																											
DOWNIEVILLE																											
DUNSMUIR TREATMENT PLA																											
FAIRFIELD																											
FORESTHILL RANGER STN																											
GRASS VALLEY 2																											
HAT CREEK PH 1																											
IOWA HILL																											
JESS VALLEY																											
LAKEPORT																											
LAKE SPAULDING																											

SEE REFERENCE NOTES FOLLOWING STATION INDEX



TOTAL SNOWFALL AND NUMBER OF DAYS  
WITH ONE INCH OR MORE ON GROUND

CALIFORNIA  
JULY 1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION	
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD		
MANZANITA LAKE									22.0	17	40.0	31	41.0	31	21.0	28	46.5	31	10.0	13	9.5	3			190.0	154	40.51	
MC CLOUD									24.5	11	34.0	11	26.5	11	33.0	28	15.5	8	7.5	1					84.0	23	42.04	
MINERAL									9.5	11	56.5	11	26.5	11	20.5	28	38.0	27	7.5	9					157.1	100	54.11	
MOUNT SHASTA									4.3	2	35.8	12	29.5	31	1.6	15	15.6	15	3.4	0					86.2	65	34.35	
NEVADA CITY									1.0	1	22.5	11	5.5	29	18.5	14	1.0	0		1					48.5	56	62.50	
PACIFIC HOUSE																												
PIT RIVER P H 1									2.3	1	11.0	11	15.0	31	3.5	18	10.0			3					10.3	3	31.87	
PIT RIVER P H 5											17.0	10	12.0	23			3.0	0							32.0	33	52.05	
PLACERVILLE IFG											2.5		1.0															
PORTOLA									6.5	8	45.0	12	24.0		37.0	28	14.0	9	1.0	0	2.0	0			129.5	57	21.10	
RED BLUFF FSS											7.4	2	2.0	0														
REDDING WSO											17.0	8	3.2	5														
ROUND MOUNTAIN PG & E									2.0	2		11		29														
SHASTA DAM											12.5																	
SIERRA CITY									9.5	4	59.0	11	25.3		34.0	14	26.5	10	7.0	2					161.3	41	72.64	
SIERRAVILLE RANGER STN											118.0		114.0		23.0													
STRAWBERRY VALLEY									7.0	5	56.0	13	26.0	31	20.3	23	9.5	4	8.0	3					126.8	79	74.12	
TWIN LAKES			T	0					61.0		83.5		27.0		55.0		86.0		21.0		3.0				336.5		42.13	
VACAVILLE											2.0																	
VINTON											16.0		10.0		13.0		5.0	0										
VOLTA POWER HOUSE											18.0	9	13.0	12	1.0	0	1.0	1										
WILLOWS & W											4.8																	
WINTERS											1.0	0																
WOODLAND 1 WNW												1	0															
NORTHEAST INTERIOR BASINS 03																												
BOCA									23.5	15	37.0	31	19.0	31	22.0	28	13.0	10										
BODIE			T	0			.3	0			17	25.7	31		5.3	31	7.0	28	8.0	10								
BRIDGEPORT									10.0				2.5		2.0		1.5											
CEDARVILLE									3.1		1.0				1													
DONNER MEMORIAL ST PK									28.6	17	39.5	31	22.8	31	36.1		39.3		8.7	6	1.5	1						
DOYLE											10.0		7.0	17	13.5	19	2.0	1										
DOYLE 4 SSE											5.0		11.0	23	6.0		2.0	2										
ECHO SUMMIT SIERRA SKI			T	0	T	0	T	0	74.0	21	93.0		29.5	31	64.8	28	110.0	31	37.0		9.0	22						
FORT BIDWELL									11.0		23.5	13	13.5		8.5		8.0											
SAGEHEN CREEK									38.3	18	52.5	31	31.0	31	46.5	28	46.0	31	7.0	9								
SUSANVILLE ARPT									3.0		10.0		2.0								2.0	0						
TAHOE CITY									32.0	17	54.0	31	22.0	31	36.0	28	46.0	31	5.0	5	1.0	1						
TERMO 1 E									9.0	10		26		31		27	4.0	0										
TRUCKEE RANGER STN									37.0	17	59.0	31	26.0	31	47.0	28	56.0	31	11.0	7	4.0	3						
WOODFORDS									19.0	14	56.0	23	21.0	31	36.0	24	7.0	1	2.0	1								
CENTRAL COAST DRAINAGE 04																												
BEN LOMOND 4											1.5	0																
MOUNT DIABLO JUNCTION											1.5																	
MOUNT HAMILTON												1																
PALOMA											6.5	2			3.5	2												
PASO ROBLES											4.0																	
PASO ROBLES FAA ARPT											4.0	0																
PINNACLES NATL MONUMEN											4	0																
PRIEST VALLEY												5	1.0	0	3.0													

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL SNOWFALL AND NUMBER OF DAYS  
WITH ONE INCH OR MORE ON GROUND

CALIFORNIA  
JULY 1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION	
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD		
SAN JOAQUIN DRAINAGE 05																												
ASH MOUNTAIN																												
CALAVERAS BIG TREES																												
CHERRY VALLEY DAM																												
COARSEGOLD 1 SW																												
GLENNVILLE																												
GRANT GROVE																												
GROVELAND RANGER STN																												
HETCH HETCHY																												
HUNTINGTON LAKE																												
LOGEPOLE																												
MARIPOSA RANGER STN																												
MATHER																												
PANOCHÉ 2 W																												
SALT SPRINGS PWR HOUSE																												
SOUTH ENTR YOSEMITE NP																												
TEHACHAPI																												
TIGER CREEK PH																												
WEST POINT																												
YOSEMITE NATL PARK HQS																												
SOUTH COAST DRAINAGE 06																												
ANZA																												
BIG BEAR LAKE																												
CANOGA PARK PIERCE COL																												
CUYAMACA																												
DRY CANYON RESERVOIR																												
GIBRALTAR DAM # 2																												
IDYLLWILD FIRE DEPT																												
JULIAN																												
MT WILSON NO 2 //																												
NEW CUYAMA FIRE STN																												
PALOMAR MTN OBSERVATOR																												
SOUTHEAST DESERT BASINS 07																												
BEAUMONT 1 E																												
BENTON INSPECTION STN																												
BISHOP WSO AIRPORT																												
BOULEVARD 2																												
EL MIRAGE FIELD																												
HAIWEE																												
INDEPENDENCE																												
LAKE ARROWHEAD																												
LANCASTER FSS																												
MITCHELL CAVERNS																												
MOJAVE																												
MOUNTAIN PASS																												
RANDBURG																												

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES (°F)

CALIFORNIA  
JULY 1989

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NAPA STATE HOSPITAL	17	MAX MIN	80 47	82 48	84 48	82 51	95 51	101 51	98 58	92 57	86 53	81 53	76 55	80 54	87 52	86 55	82 52	84 53	91 53	90 61	91 60	90 60	89 55	82 53	78 53	78 51	78 51	78 51	83 51	83 54	79 56	83 51	81 50	84.8 53.2	
ORICK PRAIRIE CREEK PK	16	MAX OBS MIN	65 43	68 40	65 47	65 48	64 44	68 49	69 50	64 43	67 42	67 42	66 42	63 54	67 53	68 55	66 54	72 46	73 58	73 55	72 49	67 55	72 44	70 45	66 52	65 52	67 47	63 52	69 52	67 54	67 43	68 42	68 42	67.5 48.5	
ORLEANS	18	MAX MIN	80 49	83 45	82 50	81 50	90 48	96 48	95 48	86 46	85 47	84 48	91 49	87 52	84 51	81 52	83 60	85 53	90 63	90 60	85 59	89 52	81 61	95 54	94 52	93 52	97 55	85 54	89 60	89 50	79 52	79 46	77 43	86.9 51.9	
PETALUMA FIRE STN 3	08	MAX MIN	76 47	79 46	80 47	84 48	93 48	99 48	92 51	85 54	88 48	90 50	83 49	77 53	85 48	85 51	85 48	83 52	91 58	89 59	92 55	85 53	91 50	87 50	83 50	83 51	83 47	80 50	90 48	87 49	81 49	88 48	78 48	85.5 50.1	
POTTER VALLEY P H	16	MAX MIN																																	M M
RICHARDSON GROVE ST PK	08	MAX MIN	66 41	72 47	75 49	78 49	78 48	83 51	93 52	83 51	77 51	74 53	78 51	83 53	83 55	79 56	71 58	73 50	82 55	84 55	85 57	83 57	75 55	79 52	92 55	90 54	87 52	85 55	74 53	80 53	83 55	76 48	77 44	79.9 52.1	
SAINT HELENA	08	MAX MIN	86 47	90 47	91 51	91 50	99 54	105 53	105 61	97 52	97 53	86 54	84 53	84 50	95 51	86 50	85 51	91 60	98 63	101 60	93 57	91 55	91 54	92 51	88 51	88 52	90 50	92 51	89 56	85 55	89 56	89 54	91 55	91.9 53.5	
SAN RAFAEL CIVIC CENTE	16	MAX OBS MIN OBS	73 52	73 52	76 54	91 53	91 53	97 55	98 55	89 61	81 53	85 54	76 52	76 54	78 52	78 52	74 53	80 56	86 60	86 61	86 59	83 56	85 55	85 53	83 50	83 52	82 51	80 53	83 53	81 60	78 51	73 54	75 56	82.1 54.4	
SANTA ROSA	08	MAX MIN	76 49	80 51	80 53	81 50	90 51	97 53	91 51	89 58	85 52	84 54	78 50	74 51	88 52	89 50	83 51	82 54	94 61	95 63	97 59	92 55	86 53	84 53	80 47	78 49	77 47	79 50	84 51	82 51	77 49	84 52	82 53	84.5 52.4	
SCOTIA	08	MAX MIN	66 45	69 45	71 48	67 53	66 54	68 52	73 52	67 51	65 50	65 51	69 52	67 53	67 55	63 54	63 54	67 49	75 57	76 58	73 57	70 53	65 53	67 53	71 53	65 52	68 52	63 52	64 54	68 54	69 54	68 49	69 47	67.9 52.0	
SHELTER COVE AVIATION	16	MAX MIN	68 49	73 48	71 52	76 54	78 53	72 53	67 48	79 56	81 51	79 57	80 54	57 48	66 49	78 52	75 56	75 51	76 53	76 56	72 53	84 59	83 53	60 48	62 46	63 49	65 54	72 54	69 53	77 49	75 51	69 55	72.9 52.0		
SONOMA	16	MAX MIN	82 44	84 46	87 47	88 48	96 48	103 51	104 55	101 57	90 50	88 51	80 50	82 52	90 48	88 49	85 50	88 52	98 59	100 60	97 58	91 55	91 52	87 52	85 48	90 47	89 47	86 47	89 48	85 49	85 50	84 48	81 49	89.8 50.5	
TRINITY RIVER HATCHERY	08	MAX MIN	75 46	81 45	86 42	89 48	90 47	92 42	97 51	97 47	89 45	87 47	90 49	90 50	87 50	92 51	91 50	85 47	85 46	90 55	95 54	96 52	94 52	96 52	95 48	92 48	93 52	93 50	91 48	95 50	92 45	90 45	83 45	90.3 48.5	
TULELAKE	16	MAX MIN																																	M M
UKIAH	18	MAX OBS MIN OBS	76 46	79 46	80 51	84 51	91 51	99 54	95 57	90 57	85 53	87 53	89 55	89 53	85 52	85 53	77 55	84 52	85 59	89 63	90 62	86 61	89 56	96 57	90 53	92 51	92 53	86 51	92 51	91 51	84 51	83 52	71 52	86.8 53.7	
WARM SPRINGS DAM	08	MAX MIN	77 51	84 52	87 56	90 47	92 49	98 56	103 50	101 52	100 56	91 59	94 51	85 50	86 47	93 45	90 45	85 58	91 48	91 66	94 66	95 63	93 60	96 50	93 46	89 47	91 45	92 45	92 46	94 46	94 45	90 50	83 50	91.4 51.9	
WEAVERVILLE RANGER STN	08	MAX OBS MIN	78 46	84 44	89 46	92 48	90 45	94 48	102 48	99 45	89 47	87 45	90 49	93 49	93 50	96 51	96 50	85 49	86 57	92 54	97 53	97 52	98 52	98 51	99 49	97 51	98 50	98 49	93 51	85 47	85 49	85 49	93.2 49.1		
WEED FIRE DEPT	08	MAX MIN		75 38	78 44		83 43	85 42	89 48																										85 43 M
WILLITS 1 NE	09	MAX OBS MIN OBS	71 41	74 40	76 43	79 43	87 41	94 43	92 44	80 43	80 41	82 41	82 43	79 45	81 43	77 43	73 43	80 42	81 50	85 49	85 47	80 48	90 45	87 46	84 44	86 44	82 44	78 51	87 41	83 49	76 43	71 45	71 37	81.1 43.9	
WILLOW CREEK 1 NW	08	MAX MIN OBS	71 54	83 46	83 50	86 49	86 45	94 46	101 51	96 46	81 46	88 48	89 48	94 52	89 51	88 49	84 52	80 49	87 49	91 58	92 55	92 50	80 55	92 53	98 52	96 52	96 53	97 52	82 58	92 49	99 51	98 47	82 45	89.3 50.4	
YREKA	08	MAX MIN	77 39	81 39	86 41	88 41	87 42	91 46	98 46	94 44	86 41	83 39	85 45	93 48	92 47	93 48	94 49	85 48	83 51	90 52	93 52	97 52	94 45	87 45	96 50	97 48	95 51	96 48	92 46	92 46	93 47	92 44	84 42	90.1 45.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

















DAILY TEMPERATURES (°F)

CALIFORNIA JULY 1989

Table with columns for STATION, DAY OF MONTH (1-31), and AVERAGE. Rows include stations like THREE RIVERS ED PH 1, TIGER CREEK PH, TRACY CARBONA, TRACY PUMPING PLANT, TURLOCK #2, VISALIA, WASCO, YOSEMITE NATL PARK HQS, SOUTH COAST DRAINAGE, ALPINE, ANAHEIM, BIG BEAR LAKE, BURBANK VALLEY PUMP PL, CACHUMA LAKE, CAMPO, CANOGA PARK PIERCE COL, CHULA VISTA, CULVER CITY, CUYAMACA, DRY CANYON RESERVOIR, EL CAJON, EL CAPITAN DAM, ELSINORE.

SEE REFERENCE NOTES FOLLOWING STATION INDEX













MONTHLY AND SEASONAL HEATING DEGREE DAYS

CALIFORNIA  
JULY 1989

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
DOWNIEVILLE	5	10	74	118	630	833	904	784	621	318	259	32	4588	
DUNSMUIR TREATMENT PLA	1	5	65	103	614	752	838	742	646	270	197	24	4257	
EAST PARK RESERVOIR	0	0	16	57	450	657	740	590	512	211	167	28	3428	3457
FAIRFIELD	0	11	10	77	334	551	585	493	306	129	82	24	2602	2686
FOLSOM DAM	0	0	3	27	304	524	634	494	278	100	41	10	2415	
GEORGETOWN RANGER STN	0	0	22	50	560	659 B	650	521	236	210	30	M	2938	
GRASS VALLEY 2	4	9	51	108	558	719	751	684	548	306	269	52	4059	
HARRISON GULCH R S	4	7	104 B	201				893	680	359		M	2326	
HAT CREEK PH 1	4	11	131	202	664	912	1049	852	607	310	297	40	5079	5690
JESS VALLEY	12	33	227	280	888	1139	1244	1081	808	508	479	152	6851	7046
LAKEPORT	0	0			484	574 B		642	465	222		M	2401	3729
LAKE SOLANO	0	5	10	65	356	606	662	525	350	143	66	17	2805	
LAKE SPAULDING	24	44	160	250	793	975	967	949	811	527	441	190	6131	6447
MANZANITA LAKE	54	86	246	332	911	1032	1088	1071	925	587	593	217	7142	7618
MARKLEY COVE	0	4	7	57	368	582	647	568	381	154	108	7	2883	
MARYSVILLE	0	0	1	20	313	545	607	462	246		25	M	2219	2551
MC CLOUD	12	17	135	168	768	875	979	893	780	386	357	59	5429	5991
MINERAL	58	82	266	343	839	1018	1091	1034	885	564	560	209	6949	7259
MOUNT SHASTA	17	27	185	250	773	925	1045	887	753	403	369	92	5726	5931
NEVADA CITY	0	1	27	64	574	724	751	691	563	275	244	38	3952	4909
ORLAND	0	1	5	44	381	569	621	484	336	97	40	0	2578	2824
OROVILLE	0	1	14	53	401	572	621	468	304	90	54	M	1957	
PARADISE	0	2	5	51	473	567	613	567	438	167	111	15	3009	
PLACERVILLE	0	1	14	42	438	615	694	563	403	168	148	21	3107	4087
PLACERVILLE IFG	0	0	19	29	524	650 B	626	626	476	182 B	166	13	3311	
PORTOLA	43	54	258	355	811	1100	1242	1064	785	530	477	198	6917	
QUINCY	0	0	174	248	614					384		M	1485	5764
RED BLUFF FSS	0	0	0	22	370	573	593	515	356	108	33	4	2574	2682
REDDING WSO	0	0	0	30	421	602	627	530	397	140	49	4	2800	
SACRAMENTO FAA ARPT	R	0	3	38	329	576	640	496	285	106	50	3	2526	2772
SACRAMENTO WSO CITY	R	0	0	25	297	531	576	468	265	96	37	3	2299	2398
SHASTA DAM	0	0	0	14	442	546	609	563	426	162	65	8	2835	2944
SIERRA CITY	6	9	72	76	672	819	839	827	700	350	315	61	4746	
SIERRAVILLE RANGER STN	31	56	234	337	753 B					472	428	151	3184	6895
STONY GORGE RESERVOIR	0	1	3	39	423	602	660	587	455	161	86	10	3027	3148
STRAWBERRY VALLEY	17	24	92	137	665	799	848	827	698	393	358	89	4947	5119
TWIN LAKES	120	163	328	408	1014	1199	1172	1117	1028	760	666	379	8354	9196
VACAVILLE	0 B	0	3	34 B						107		M	2169	2788
WHISKEYTOWN RESERVOIR	0	0	5	30	493	610	657	616	498	211	163	11	3294	
WILLOWS 6 W	0	4	6	39	379	574	597 B	517	369	115	48	1	2649	2836
WINTERS	0	0	4	22	298	545	592	480	293	84	23	3	2344	2593
WOODLAND 1 HNW	0	0			321	558	625	500		97		M	2101	2709
NORTHEAST INTERIOR BASINS 03														
BOCA	99	126	350	483	896	1289	1435	1186	823	580	514	254	8035	8339
BODIE	171	262	471	625	1031	1359	1369	1218	939	727	692	426	9290	
BRIDGEPORT	38	105	330	493	804	1224	1435	1078	709	544	490	M	7250	
CEDARVILLE	11	7	213	241	834	1146	1283	1126	749	450	417	80	6557	6305
DONNER MEMORIAL ST PK	75	83	295	421	907	1231	1323	1149	931	622	545	267	7849	
DOYLE 4 SSE	4	4	159	258	708	1108	1170	1032	606	375	342	67	5833	
ECHO SUMMIT SIERRA SKI	65	89	264	298	946	1084	1069	1083	985	704	660	292	7539	
FORT BIDWELL	17	14	198	240	820	1142	1319	1136	728	437	406	90	6547	6381
SAGEHEN CREEK	143	174	386	514	979	1298	1352	1155	902	668	595	347	8513	
SUSANVILLE ARPT	6	7	187	281	730	1103	1204	1089	667	378	351	39	6042	6233
TAHOE CITY	53	63	252	397	846	1110	1154	1011	851	630	539	279	7185	8086
TAHOE VALLEY FAA AP	40	48	217	455	944	1265	1366	1155	898	676	615	334	8013	
TERMO 1 E	27	63	318	468	977	1275	1477	1205	813	583	538	199	7943	
TRUCKEE RANGER STN	44	53	249	341	894	1190	1255	1088	857	585	529	217	7302	8230
WOODFORDS	0	12	165	205	739	1123	1145	1003	702	440	406	85	6025	6048

SEE REFERENCE NOTES FOLLOWING STATION INDEX



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STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
LINDSAY	0	0	0	21	339	610	643	454	232	58	33	0	2390	2634
LODGEPOLE	99	145	332	469	972	1239	1316	1120	921	626	617	323	8179	
LODI		1			348	605	691	487	332	127	92	3	2686	2861
LOS BANOS	0	1	3	42	319	664	687	463	225	71	23	0	2498	2616
LOS BANOS DET RESV	0	0	1	32	257	598	636	463	221	69	26	0	2303	
MADERA	0	0	1	33	348	656	710	490	253	71	26	0	2588	2673
MARICOPA	0	0	0	13	270	544	612	409	196	38	13	0	2095	2302
MERCED MUNICIPAL ARPT	0	0	3	41	313	629		483	241	82		0	1792	2653
MODESTO	0	0	2	34		613		434	207	68	27	0	1385	2671
NEWMAN	0	0	0			596	650	431	211	71	19	0	1978	
NEW MELONES DAM	0	0	10	49	362	643	721	559	385	163	127	1	3020	
NORTH FORK RANGER STN	0	0	34	54	462	684B		615	468	183	192	21	2713	
ORANGE COVE					308	598	664	437	185	49	8	0	2249	2685
PORTERVILLE	0	0	0	15	285	569	627	419	168	42	19	0	2144	2456
SALT SPRINGS PWR HOUSE			26	24	499	708	683	655	506	231	204	22	3558	3856
SAN LUIS DAM	0	0	0	37	258	593	653	474	209	75	48	5	2352	
SONORA RANGER STN	0B		20	60	441B					164	160	1	846	3539
SOUTH ENTR YOSEMITE NP	50	63	163	250	761	967	1026	908	760	484	480	210	6122	5790
STOCKTON WSO	0	0	2	40	328	607	656	480	268	94	38	2	2515	2674
STOCKTON FIRE STN # 4	0	13	52	180	375	579		567	402	191	145	M	2504	2846
TEHACHAPI	1	3	76	103	550	756	778	708	504	246	280	49	4054	4494
TEJON RANCHO	0	0	0	28	347	559	636	487	226	84	44	0	2411	2603
THREE RIVERS ED PH 1	0	0	0	18	339	580	621	446	245	73	42	0	2364	
TIGER CREEK PH			22	54	531	788	820	629	476	237	213	16	3786	3797
TRACY CARBONA	0	0	20	66	339	606	660	486	313	117	26	2	2635	2704
TRACY PUMPING PLANT		0B							267	99	33B	5	404	
TURLOCK #2	0	0	3	44	313	623	644	444	210	78	36	0	2395	
VISALIA	0	0	1	11	338	628	693	451	228	55	22	0	2427	2460
WASCO	0	0	0	13	337	626	644	431	176	38	20	0	2285	2466
YOSEMITE NATL PARK HQS	0	0	41	109	621	890	959	755	588	267	268	34	4532	4785
SOUTH COAST DRAINAGE 06														
ALPINE	0	0	12	31	207	362	390	331	190	91	108	30	1752	
ANAHEIM //R														
BIG BEAR LAKE	29	99	260	385	711	1024	1110	896	657	452	407	192	6222	
BURBANK VALLEY PUMP PL	0	0	3	8	162	323	346	304	118	42	29	4	1339	1679
CACHUMA LAKE	11	0	15	52	244	395	448	369	206	88	87	6	1921	
CAMPO	0	7	45	40	373	573	617	476	337	165	169	72	2874	3303
CANOGA PARK PIERCE COL	0	0	5	13	201	388	389	354	136	54	49	1	1590	1885
CHULA VISTA	0	0	2	6	147	257	306	242	177	51	47	20	1255	2074
CULVER CITY	0	0	1B		151	269	287	264	133	35	16	1	1157	1517
CUYAMACA	0	14	119	135	515	803	858	700	482	281	318	124	4349	4847
DRY CANYON RESERVOIR	0	0	27	62	319			456		86	93		1043	
EL CAJON	0	0	5	4	166	338		273	138	38	36	1	999	
EL CAPITAN DAM	0	0	5	12	179	303	381		153	49	54	1	1137	1534
ELSINORE	0	0	0	4	221	446	484	370	160	49	27	0	1761	2127
ESCONDIDO 2	0	0	6	2	158	310	345	275	133	53	38	8	1328	
HENSHAW DAM	0	8	64	70	418	657	702	538	389	219	208	44	3317	3711
IDYLLWILD FIRE DEPT	8	22	106	125	560	812	808	707	510	291	326	131	4406	
JULIAN			45	23	426	667	698	550	378	166	230	87	3270	
LAGUNA BEACH	0	3	39	46	210	355	402	332	257	104	126	47	1921	2221
LA MESA	0	0	0	3	137	254	303	256	135	30	43	14	1175	1567
LOMPOC	14	12	40	66	225	367	391	343	185	101	127	34	1905	2890
LONG BEACH WSCMO	0	0	0	0	136	277	299	264	134	37	24	3	1174	1485
LOS ANGELES WSO ARPT	0	0	5	16	145	265	294	291	189	80	72	25	1382	1595
LOS ANGELES CIVIC CENT	0	0	1	2	98	258	270	271	104	36	27	5	1072	1204
MONTEBELLO	0	0	1	2	93	244	248	243	86	27	18	2	964	
MT WILSON NO 2 //	0	2	59	59	457	736	708	634	392	195	243	50	3535	4296
NEW CUYAMA FIRE STN	0	1	39	78	426	610	664		331	152	123	5	2429	
NEWHALL														
NEWPORT BEACH HARBOR	5	9	30	39	205	330	347	318	261	132	143	77	1896	1954
OAK GROVE RANGER STN	0	0	23	13	301	475	565B	482			81B	20	1960	
OCEANSIDE MARINA	7	9B	49	71	257	353	395	343	333	145	170	99	2231	

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STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
PEARBLOSSOM	0 <sup>B</sup>			2 <sup>B</sup>					234	109	67	3	M 415	
RANDBURG	0	0	11	2	369	644	660	546	245	73	50	1	M 2601	2923
THERMAL FAA AIRPORT	0	0	0	0	119	314	351	192		0	0	0	M 976	1154
TRONA	0	0	2	0	244	579	631	386	98	27	9	0	M 1976	2415
TWENTYNINE PALMS	0	0	0	0	254	502	553	362	74	26	2	0	M 1773	1975
VICTORVILLE PUMP PLANT	0	0	15	10	356	660	700	517	281	92	49	8	M 2688	3192
WILDROSE RANGER STN	0 <sup>B</sup>	0	23	23	489	759	772	641	367	110	95	2	B 3281	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY SOIL TEMPERATURES

CALIFORNIA  
JULY 1989

STATION	DEPTH	TIME	DAY OF MONTH																													AVERAGE		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30	31
CALIFORNIA SACRAMENTO DRAINAGE DAVIS 2 WSW EXP FARM 02	(IN)	4MAX	85	86	88	80	89	90	91	94	92	91	92	90	90	90	89	90	92	93	94	94	93	92	92	92	92	91	91	90	90	89	90.4	
		4MIN	79	80	80	72	80	84	84	86	85	85	86	83	83	84	83	83	86	88	88	88	87	86	88	85	87	85	85	84	84	84	83	84.0
		8MAX	80	82	82	83	84	84	86	87	87	86	86	86	85	85	85	85	84	86	88	88	88	88	88	88	88	88	87	87	86	86	85	85.7
		8MIN	79	79	80	81	82	82	84	85	85	84	84	84	83	83	82	83	83	85	86	87	86	86	86	85	85	85	85	84	84	84	83	83.7
SOUTHEAST DESERT BASINS BRAWLEY 2 SW 07	(CM)	20 08	79	79	80	80	81	82	82	84	84	84	84	84	84	83	83	83	83	83	84	84	86	86	86	86	85	86	84	85	84	84	83.5	
		10MAX	81	81	82	82	81	83	82	83	83	83	87	84	84	86	84	85	85	83	84	84	84	86	85	86	88	85	87	88	87	87	87	84.4
		10MIN	77	78	78	78	78	81	81	81	82	81	82	81	81	80	82	82	81	81	82	82	82	84	84	84	85	82	85	85	85	85	84	81.7
		20MAX	72	72	72	74	74	75	75	76	76	76	76	76	77	77	76	76	76	77	77	77	77	77	77	77	81	79	79	79	79	79	79	76.5
20MIN	69	69	70	73	72	74	74	74	69	74	69	69	70	69	75	75	69	75	75	74	75	75	75	75	77	77	78	77	77	77	77	73.5		

STATION NAME	SOIL TYPE	SOIL COVER	SLOPE	UNITS
BRAWLEY 2 SW	HOLTVILLE SILTY CLAY	GRASS	0%	F
DAVIS 2 WSW EXP FARM	SANDY LOAM	BARE	2%	F
FRESNO WSO AP	ATWATER SANDY LOAM	BARE	0%	F







# SNOWFALL AND SNOW ON GROUND (INCHES)

CALIFORNIA  
JULY 1989

STATION		DAY OF MONTH																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	30			
CALIFORNIA																																			
NORTHEAST INTERIOR BASINS	03																																		
BODIE	SNOWFALL SN ON GND																																		

SNOWFALL: INCLUDES SNOW AND ICE. VALUES FOR NWS STATIONS (J INDEX NOTE) ARE MID-MID (LST).  
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL. VALUES FOR NWS STATIONS (J INDEX NOTE) ARE OBSERVED AT 0000 UTC (GMT).  
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS (J INDEX NOTE) ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.  
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

CALIFORNIA  
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STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
CALIFORNIA											
ACTON ESCONIDO FC261	R0014	06	LOS ANGELES	34 30	118 16W	2960		08		C	LA CO DEPT OF PUB WORKS
ADIN RANGER STN	0029	06	MODOC	41 12	120 57W	4195	16	16			U S FOREST SERVICE
ALISO CANYON OAT MTN F	0115	06	LOS ANGELES	34 19	118 33W	2367		08		C	LA CO DEPT OF PUBLIC WOR
ALPINE	0136	06	SAN DIEGO	32 50	116 46W	1735	17	17			ALPINE FIRE DEPT
ALTADENA	0144	06	LOS ANGELES	34 11	118 8W	1127		17			LA CO DEPT PUBLIC WORKS
ALTURAS RANGER STATION	0161	06	MODOC	41 30	120 33W	4400	08	08		C	U S FOREST SERVICE
ANAHEIM	0192	06	ORANGE	33 54	117 52W	3355	MID	MID			PUBLIC UTILITIES DEPT
ANGWIN PAC UNION COL	0212	01	NAPA	38 34	122 26W	1815	17	17		C	PACIFIC UNION COLLEGE
ANTIPOCH PUMP PLANT 3	0232	05	CONTRA COSTA	37 59	121 44W	60	08	08			CONTRA COSTA WATER DIST
ANZA	0235	06	RIVERSIDE	33 33	116 40W	3915		08			CA STATE DEPT FORESTRY
ASH MOUNTAIN	0343	05	TULARE	36 29	118 50W	1708	08	08			NATIONAL PARK SERVICE
AUBERRY 1 NW	0379	05	FRESNO	37 5	119 30W	2140	17	17			STANLEY TOPHAM
AUBURN	0383	03	PLACER	38 55	121 5W	1292	07	07			ROBERT ALLEN
BAKER	0436	03	SAN BERNARDI	35 1	116 4W	940	19	19		C	WILLIAM R LOCKE
BAKERSFIELD WSO ARPT	R0442	05	KERN	35 2	119 3W	495	MID	MID			NWS
BALCH POWER HOUSE	0449	05	FRESNO	36 5	119 5W	1720	16	16		C	PACIFIC GAS & ELECT CO
BARSTOW FIRE STATION	0521	07	SAN BERNARDI	34 54	117 1W	2320	16	16			BARSTOW FIRE DISTRICT
BEAUMONT 1 E	0609	07	RIVERSIDE	33 56	116 58W	2600	16	16			U S WEATHER OBSERVER
BEN LOMOND 4	0673	04	SANTA CRUZ	37 5	122 5W	450	17	17			ALBERT B STEFFENS
BENTON INSPECTION STN	0684	07	MONO	37 51	118 29W	5461		MID			EXCLUSION & DETECTION
BERKELEY	0693	04	ALAMEDA	37 52	122 15W	345	08	MID		C	UNIV OF CALIFORNIA
BIG BAR RANGER STATION	0738	01	TRINITY	40 45	123 15W	1260	08	08			U S FOREST SERVICE
BIG BEAR LAKE	0741	06	SAN BERNARDI	34 1	116 53W	6790	16	16			BEAR VALLEY COM HOSPITAL
BIG PINES PARK FC83B	0779	07	LOS ANGELES	34 23	117 41W	6845		17		C	LA CO DEPT PUBLIC WORKS
BIG SUR STATE PARK	0790	04	MONTEREY	36 1	121 47W	235		08			STATE PARK SERVICE
BIG TUJUNGA DAM FC46DE	0798	06	LOS ANGELES	34 18	118 11W	2317		08			LA CO DEPT PUBLIC WORKS
BISHOP CREEK INTAKE 2	R0819	07	INYO	37 15	118 35W	8154		MID			SO CALIF EDISON CO
BISHOP WSO AIRPORT	R0822	07	INYO	37 22	118 22W	4108	MID	MID			NWS
BLACK MOUNTAIN 2 WSW	0850	04	SANTA CLARA	37 19	122 10W	2120		07		C	MRS JAN SHERRILL
BLYTHE	0924	07	RIVERSIDE	33 37	114 36W	268	16	08			STATE DIV OF FORESTRY
BLYTHE FAA ARPT	0927	07	RIVERSIDE	33 37	114 43W	390	17	17			FAA
BOCA	0931	03	NEVADA	39 23	120 6W	5575	08	08		08	RONALD KIRBY
BODIE	0943	03	MONO	38 13	119 1W	8370	17	17			BODIE HISTORIC STATE PRK
BORREGO DESERT PARK	0983	07	SAN DIEGO	33 15	116 24W	805	08	08			CAL STATE PARK SERVICE
BOULEVARD 2	1010	07	SAN DIEGO	32 40	116 18W	3600		18			THE MEYER'S TRAILER RCH
BOWMAN DAM	1018	02	NEVADA	39 27	120 39W	5365	08	08		C	NEVADA IRRIGATION DISTR
BRAWLEY 2 SW	1048	07	IMPERIAL	32 57	115 33W	-100	09	09		G	AGRI RESEARCH CENTER
BRIDGEPORT	1072	03	MONO	38 15	119 14W	6470	16	16			MONO CO SHERIFFS STN
BRIDGEVILLE 4 NNW	1080	01	HUMBOLDT	40 32	123 49W	2100		08			RUSSELL HUNT
BUCKHORN	1149	02	SHASTA	40 52	121 51W	3800		15			MRS ANNA HOWE
BUCKS CREEK P H	1159	02	PLUMAS	39 55	121 20W	1760		14			P G & E COMPANY
BURBANK VALLEY PUMP PL	1194	06	LOS ANGELES	34 11	118 21W	655	17	17		C	BURBANK PUBLIC SERVICE
BURNEY	1214	02	SHASTA	40 53	121 40W	3130	08	08			MRS CHERI ESTES
BURNT RANCH 1 S	1215	01	TRINITY	40 48	123 28W	2150		08			JOSEPH M CARPENTER
BUTTONWILLOW	1244	05	KERN	35 24	119 28W	269	08	08			BUENA VISTA W S DIST
CACHUMA LAKE	1253	06	SANTA BARBAR	34 35	119 59W	781	09	09		09	US BUREAU RECLAMATION
CALAVERAS BIG TREES	1277	05	CALAVERAS	38 17	120 19W	4695	08	08			STATE DIV BEACHES & PRKS
CALEXICO 2 NE	1288	07	IMPERIAL	32 41	115 28W	12		17			IMPERIAL IRRIG DIST
CALISTOGA	1312	01	NAPA	38 34	122 35W	370	18	18			CITY OF CALISTOGA
CALLAHAN	1316	01	SISKIYOU	41 19	122 48W	3185	17	17			MARIAN HAYDEN
CAMPO	1424	06	SAN DIEGO	32 37	116 28W	2630	17	17			ARCHIE C LEACH
CAMP PARDEE	1428	05	CALAVERAS	38 15	120 51W	658	08	08		C	EAST BAY MUNI UTILITY DS
CANBY RANGER STN	1476	02	MODOC	41 27	120 52W	4310	14	14			U S FOREST SERVICE

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# STATION INDEX

CALIFORNIA  
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STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
CANOGA PARK PIERCE COL	1484	06	LOS ANGELES	34 11	118 34W	790	16	16			L A PIERCE COLLEGE
CANYON DAM	1497	02	PLUMAS	40 10	121 5W	4560	16	16	C	H	PACIFIC GAS & ELECT CO
CECILVILLE 1 SE	1606	01	SISKIYOU	41 8	123 8W	2960	08	08		H	HENRY KAISER
CEDARVILLE	1614	03	MODOC	41 32	120 10W	4670	08	08			U S SOIL CONS SERVICE
CHALLENGE RANGER STN	1653	02	YUBA	39 29	121 13W	2570		08			U S FOREST SERVICE
CHERRY VALLEY DAM	1697	05	TUOLUMNE	37 58	119 55W	4765	08	08		H	HETCH HETCH WTR SUP
CHESTER	1700	02	PLUMAS	40 18	121 14W	4525	17	17		H	RICHARD SPRAGUE
CHICO UNIVERSITY FARM	1715	02	BUTTE	39 42	121 49W	185	08	08	OB	C	CHICO UNIVERSITY FARM
CHINA LAKE ARMITAGE	1733	07	KERN	35 41	117 41W	2220		07		H	U S NAVY
CHULA VISTA	1758	06	SAN DIEGO	32 36	117 6W	56	16	16		H	CHULA VISTA FIRE DEPT
CLEARLAKE 4 SE	1806	02	LAKE	38 54	122 36W	1349	08	08			RAYMOND C CARMAN
CLOVERDALE 3 SSE	1838	01	SONOMA	38 46	122 59W	320	08	08		H	JAMES OTTOBONI
COALINGA	1864	05	FRESNO	36 9	120 21W	670	17	17	C	H	COALINGA FIRE DEPT
COARSEGOLD 1 SW	1878	05	MADERA	37 15	119 42W	2230		07		H	CA STATE DEPT FORESTRY
COLEMAN FISHERIES STN	1907	02	SHASTA	40 24	122 8W	420		08		H	BUR-SPORT FISH & WLDLF
COLFAX	1912	02	PLACER	39 6	120 57W	2410	16	16		H	DAVID T LASSILA
COLGATE POWER HOUSE	1916	02	YUBA	39 20	121 11W	595		16		H	YUBA CO WATER AGENCY
COLUSA 2 SSW	1948	02	COLUSA	39 12	122 1W	50	08	08		H	CITY OF COLUSA
COPCO NO 1 DAM	1990	01	SISKIYOU	41 59	122 20W	2703		16		H	PAC POWER & LIGHT CO
CORCORAN IRRIG DIST	2012	05	KINGS	36 6	119 34W	200	17	17	C	H	CORCORAN IRRIG DIST
COVELO	2081	01	MENDOCINO	39 47	123 15W	1430	17	17		H	MOLLIE K TERRY
COVINA NIGG FC 1938	2090	06	LOS ANGELES	34 5	117 52W	575		17		H	L A CO DEPT PUBLIC WORKS
CRESCENT CITY 1 N	2147	01	DEL NORTE	41 46	124 12W	40	16	16		H	PAC POWER & LIGHT CO
CRESCENT CITY 7 ENE	2148	01	DEL NORTE	41 48	124 5W	120		08		H	STATE DEPT-PARKS & REC
CRYSTAL LAKE FC 283-C	2198	06	LOS ANGELES	34 19	117 51W	5370		08		H	L A CO DEPT PUBLIC WORKS
CULVER CITY #	2214	06	LOS ANGELES	34 1	118 24W	55	17	17		H	CULVER CITY FIRE DEPT
CUYAMACA	2239	06	SAN DIEGO	32 59	116 35W	4640	08	08	C	H	HELI X IRRIGATION DIST
DAGGETT FAA AIRPORT	2257	07	SAN BERNARDI	34 52	116 47W	1922	22	22		H	FAA
DAVIS 2 WSW EXP FARM	2294	02	YOLO	38 32	121 46W	60	08	08	OB	C	UNIVERSITY OF CALIF
DEATH VALLEY	2319	07	INYO	36 28	116 52W	-194	08	08	OB	H	NATIONAL PARK SERVICE
DEEP CANYON LABORATORY	2327	07	RIVERSIDE	33 39	116 23W	1200		08		H	DEEP CANYON RESEARCH CTR
DEEP SPRINGS COLLEGE	2331	07	INYO	37 22	117 59W	5225	19	19		H	DEEP SPRINGS COLLEGE
DEER CREEK FOREBAY	2338	02	NEVADA	39 18	120 50W	4455	12	12		H	PACIFIC GAS & ELEC CO
DELANO	2346	05	KERN	35 47	119 15W	323		08		H	KERN COUNTY FIRE DEPT
DE SABL A	2402	02	BUTTE	39 52	121 37W	2710	16	16		H	P G & E COMPANY
DESCANSO RANGER STN	2406	06	SAN DIEGO	32 51	116 37W	3500		14		H	U S FOREST SERVICE
DOB BINS 1 S	2456	02	YUBA	39 22	121 12W	1640	18	18			TERESA R ROYAT
DONNER MEMORIAL ST PK	2467	03	NEVADA	39 19	120 14W	5937	08	08		H	CALIF DIV BEACH & PKS
DOWNEY FIRE DPT FC107C	2494	06	LOS ANGELES	33 56	118 9W	110		17		H	L A CO DEPT PUBLIC WORKS
DOWNIEVILLE	2500	02	SIERRA	39 34	120 50W	2915	17	17	C		LELAND C ADAMS III
DOYLE	2504	03	LASSEN	40 2	120 6W	4240		08		H	MRS MARY DIXON
DOYLE 4 SSE	2506	03	LASSEN	39 58	120 5W	4390	18	18		H	JOHN MATLEY
DRY CANYON RESERVOIR	2516	06	LOS ANGELES	34 29	118 32W	1455	07	07		H	LA DEPT OF WATER & POWER
DUNSMUIR TREATMENT PLA	2574	02	SISKIYOU	41 12	122 16W	2170	07	07		H	CITY OF DUNSMUIR
EAGLE MOUNTAIN	2598	07	RIVERSIDE	33 48	115 27W	973	07	07		H	METRO WATER DISTRICT
EAST PARK RESERVOIR	2640	02	COLUSA	39 22	122 31W	1205	08	08		H	FRANKLIN I HOLDEN
ECHO SUMMIT SIERRA SKI	2671	103	EL DORADO	38 47	120 2W	7350	07	07		H	MRS BOBBY SPROCK
EL CAJON	2706	06	SAN DIEGO	32 49	116 58W	405	16	16		H	EL CAJON FIRE STN #9
EL CAPITAN DAM	2709	06	SAN DIEGO	32 53	116 49W	600	07	07		C	SAN DIEGO WATER DEPT
EL CENTRO 2 SSW	2713	07	IMPERIAL	32 46	115 34W	-30	17	17		H	EL CENTRO WATER DEPT
ELECTRA POWER HOUSE	2728	05	AMADOR	38 20	120 40W	715	16	16		H	P G & E COMPANY
ELLERY LAKE	2756	03	MONO	37 56	119 14W	9645			MID		SO CALIF ETOISON CO
ELLIOTT	2760	05	SAN JOAQUIN	38 14	121 12W	92		07		H	C NORMAN ADAMS
EL MIRAGE FIELD	2771	07	SAN BERNARDI	34 36	117 36W	2910	08	08		H	WILLIAM G BRIEGLEB

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EL SINORE	280506	06	RIVERSIDE	33 40	117 20W	1285	17	17		C H	STATE DIV OF FORESTRY
ESCONDIDO 2	286306	06	SAN DIEGO	33 7	117 5W	600	16	16		C H	ESCONDIDO FIRE DEPT
EUREKA WSO CITY # // R	299100	01	HUMBOLDT	40 48	124 10W	600	MID	MID		C H J	NWS
EXCHEQUER RESERVOIR	299200	05	MARIPOSA	37 35	120 16W	442	08	08		H H	MERCED IRRIG DIST
FAIRFIELD	299340	05	SOLANO	38 17	122 4W	440	08	08		H H	WATERMAN TREATMENT PLANT
FAIRMONT	294107	02	LOS ANGELES	34 42	118 26W	3060	06	06		H H	LA DEPT OF WATER & POWER
FIDDLETOWN DEXTER RANC	303805	05	AMADOR	38 32	120 42W	2160		08		C H	LEO DEXTER
FIVE POINTS 5 SSM	308305	05	FRESNO	36 21	120 9W	285	17	17		H H	FIVE STAR RANCH
FOLSOM DAM	311302	02	SACRAMENTO	38 42	121 10W	350	08	08	OB	H	U S BUREAU RECLAMATION
FORESTHILL RANGER STN	313402	02	PLACER	39 1	120 51W	3015		14			U S FOREST SERVICE
FORT BIDWELL	315703	03	MODOC	41 51	120 8W	4500	17	17		H	JAMES E FEE
FORT BRAGG 5 N	316101	01	MENDOCINO	39 30	123 47W	120	17	17		C H	ROBERT SCHOMER
FORT DICK	317301	01	DEL NORTE	41 52	124 9W	468		08			INACTIVE 06/01/89
FORT JONES RANGER STN	318201	01	SISKIYOU	41 36	122 51W	2725	08	08		C	U S FOREST SERVICE
FORT ROSS	319101	01	SONOMA	38 31	123 15W	112	08	08		H J	FORT ROSS ST HIST PARK
FRESNO WSO AP	322570	05	FRESNO	36 47	119 43W	336	MID	MID		C H J	NWS
FRIANT GOVERNMENT CAMP	326105	05	FRESNO	36 59	119 43W	410	08	08	OB	H	U S BUREAU RECLAMATION
GASQUET RANGER STN	335701	01	DEL NORTE	41 52	123 58W	384		08		C H	U S FOREST SERVICE
GEM LAKE	336903	03	MONO	37 45	119 8W	8970		MID			SO CALIF EDISON CO
GEORGETOWN RANGER STN	338402	02	EL DORADO	38 55	120 47W	3001	08	08		C	U S FOREST SERVICE
GIBALTAR DAM # 2	340206	06	SANTA BARBARA	34 31	119 41W	1550		08		C H	SANTA BARBARA WTR DEPT
GILROY	341704	04	SANTA CLARAS	37 0	121 34W	194	09	09			GILROY RURAL FIRE DEPT
GLENDORA WEST FC 185	345206	06	LOS ANGELES	34 8	117 52W	822		17		H H	LA CO DEPT PUBLIC WORKS
GLENNVILLE	346305	05	KERN	35 43	118 42W	3140	17	08		H H	KERN CO FSTRY & F D
GOLD ROCK RANCH	348907	07	IMPERIAL	32 53	114 52W	485	18	18		H	GOLD ROCK RANCH
GOLD RUN 2 SW	349102	02	PLACER	39 9	120 52W	3320		18		H	LOU BERGEZ
GOLDSTONE ECHO 2	349807	07	SAN BERNARDI	35 17	116 47W	2949		07			GOLDSTONE SECURITY SRVC
GRANT GROVE	355105	05	TULARE	36 44	118 58W	6600	08	08		H	NATIONAL PARK SERVICE
GRASS VALLEY 2	357302	02	NEVADA	39 13	121 4W	2400	08	08		C	CITY OF GRASS VALLEY
GRATON	357801	01	SONOMA	38 26	122 52W	200	08	08		H H	LOUISE B HALLBERG
GREENVIEW	361401	01	SISKIYOU	41 33	122 54W	2820		12		H	EMMA R PEREIRA
GREENVILLE RANGER STN	362102	02	PLUMAS	40 8	120 56W	3560		08		H	U S FOREST SERVICE
GRIZZLY CREEK STATE PA	364701	01	HUMBOLDT	40 29	123 54W	410	08	08		H	CA DEPT PARKS & REC
GROVELAND RANGER STN	367205	05	TUOLUMNE	37 49	120 6W	3145		08		H H	U S FOREST SERVICE
HAHWE	371007	07	INYO	36 8	117 57W	3825	07	07		H	LA WTR & PWR DEPT
HALF MOON BAY	371404	04	SAN MATEO	37 28	122 27W	36	17	17		H	DEPT OF PARKS & REC
HANFORD 1 S	374705	05	KINGS	36 18	119 39W	245	08	08		H	HANFORD PUBLIC WORKS
HAPPY CAMP RANGER STN	376101	01	SISKIYOU	41 48	123 22W	1120	08	08		C H	U S FOREST SERVICE
HARRISON GULCH R S	379102	02	SHASTA	40 22	122 58W	2750	08	08		C	U S FOREST SERVICE
HARRY ENGBRIGHT DAM	380002	02	NEVADA	39 14	121 16W	580	08	07		H H	U S CORPS OF ENGINEERS
HAT CREEK PH 1	382402	02	SHASTA	40 56	121 33W	3015	08	08		C H	PAC GAS & ELEC-OPERATOR
HAYFIELD PUMPING PLANT	385507	07	RIVERSIDE	33 42	115 38W	1370	09	09		C	METRO WATER DISTRICT
HAYFORK RANGER STN	385901	01	TRINITY	40 33	123 10W	2340		08		H	HAYFORK RANGER STATION
HEALDSBURG	387501	01	SONOMA	38 37	122 52W	102	18	18		H	HEALDSBURG FIRE DEPT
HEALDSBURG NO 2	387801	01	SONOMA	38 38	122 52W	150		08		H	ROY W LOWE
HEMET	389606	06	RIVERSIDE	33 45	116 57W	1655		08		H	LAKE HEMET MUN WATER
HENSHAW DAM	391406	06	SAN DIEGO	33 14	116 46W	2700	07	07		C	VISTA IRRIGATION DISTRICT
HETCH HETCHY	393905	05	TUOLUMNE	37 57	119 47W	3870	08	08		C C H	HETCH HETCHY WATER SUPPLY
HOLLISTER 2	402504	04	SAN BENITO	36 51	121 24W	280	16	16		C C H	HOLLISTER WATER DEPT
HUNTINGTON LAKE	417605	05	FRESNO	37 14	119 13W	7020	16	16		C C H	SO CALIF EDISON CO
IDYLLWILD FIRE DEPT	421106	06	RIVERSIDE	33 45	116 43W	5380	16	16		C	IDYLLWILD FIRE DEPT
IMPERIAL	422307	07	IMPERIAL	32 51	115 34W	-64	MID	MID		H H	IMPERIAL IRRIG DIST
INDEPENDENCE	423207	07	INYO	36 48	118 12W	3950	07	07		C H	LA WTR & PWR DEPT
INDIO FIRE STATION	425907	07	RIVERSIDE	33 44	116 16W	-21	16	16		H	INDIO FIRE DEPARTMENT

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INYOKERN	4278	07	KERN	35 39	117 49 W	2440	17	17		H	KERN CO FIRE DEPT
IOWA HILL	4288	02	PLACER	39 5	120 50 W	3037		10		H	CATHY MORGAN
IRON MOUNTAIN	4297	07	SAN BERNARDI	34 8	115 8 W	922	07	07		C	METRO WATER DIST
JESS VALLEY	4374	02	MODOC	41 16	120 18 W	5300	16	16		H	BRANDY CHRISTENSEN
JULIAN	4412	06	SAN DIEGO	33 5	116 38 W	4220	16	16		H	PINE HILL MUTUAL WATR CO
JUNCAL DAM	4422	06	SANTA BARBAR	34 29	119 30 W	2075		08		H	MONTECITO COUNTY WTR DP
KENTFIELD	4500	01	MARIN	37 57	122 33 W	128	16	16		H	RAYMOND J MULLEN
KERN RIVER PH 1	4520	05	KERN	39 28	118 47 W	970	15	15		H	SO CALIF EDISON CO
KERN RIVER PH 3	4523	05	KERN	35 47	118 26 W	2703	17	17		H	SO CALIF EDISON CO
KETTLEMAN STN	4536	05	KINGS	36 4	120 5 W	508		18		H	P G & E COMPANY
KING CITY	4555	04	MONTEREY	36 12	121 8 W	320	08	08		C	STATE DIV OF FORESTRY
KLAMATH	4577	01	DEL NORTE	41 31	124 2 W	25	17	17		H	HAROLD DEL PONTE
LA CRESCENTA FC 251 C	4628	06	LOS ANGELES	34 13	118 15 W	1565		17		H	LA CO DEPT PUBLIC WORKS
LAGUNA BEACH	4647	06	ORANGE	33 33	117 47 W	35	16	16		H	SEWAGE DISPOSAL PLANT
LAKE ARROWHEAD	4671	07	SAN BERNARDI	34 15	117 11 W	5203	17	17		H	LAKE ARROWHEAD FIRE DEPT
LAKEPORT	4701	02	LAKE	39 2	122 55 W	1315	08	08		H	CITY OF LAKEPORT
LAKE SABRINA	4705	07	INYO	37 13	118 37 W	9065			M	H	SO CALIF EDISON CO
LAKESIDE 2 E	4710	06	SAN DIEGO	32 51	116 53 W	690		08		H	HELIIX WATER DISTRICT
LAKE SOLANO	4712	02	SOLANO	38 30	122 0 W	140	08	08	08	C	SOLANO IRRIGATION DIST
LAKE SPAULDING	4713	02	NEVADA	39 19	120 38 W	5154	16	16		H	P G & E COMPANY
LA MESA	4735	06	SAN DIEGO	32 46	117 1 W	530	17	17		H	LA MESA FIRE DEPT
LANCASTER FSS	4749	07	LOS ANGELES	34 44	118 13 W	2340	MID	MID		H	DEPT OF TRANSPORTATION
LAVA BEDS NAT MONUMENT	4838	01	SISKIYOU	41 44	121 31 W	4770	09	09		H	NATIONAL PARK SERVICE
LEBEC	4863	05	KERN	34 50	118 52 W	3585		08		H	KERN CO FIRE DEPT
LECHUZA PTRL ST FC352B	4867	06	LOS ANGELES	34 5	118 53 W	1600		16		C	LACFCO
LEE VINING	4888	07	MONO	37 57	119 7 W	6797	09	09		H	MONO LAKE COMMITTEE
LEMON COVE	4890	05	TULARE	36 23	119 2 W	513	08	08		H	KAWEAH LEMON CO
LINDSAY	4957	05	TULARE	36 12	119 3 W	420	19	19		H	LINDSAY-STRATHMORE IR D
LIVERMORE	4997	04	ALAMEDA	37 40	121 46 W	480	18	18		H	RON HAFNER
LODGEPOLE	5026	05	TULARE	36 36	118 44 W	6735	08	08		C	NATIONAL PARK SERVICE
LODI	5032	05	SAN JOAQUIN	38 7	121 17 W	40	17	17	17	H	CITY OF LODI
LOMPOC	5064	06	SANTA BARBAR	34 39	120 27 W	95	16	16		H	LOMPOC WATER TRMT PLT
LONG BEACH WSCMO	5085	06	LOS ANGELES	33 49	118 9 W	25	MID	MID		C	WEATHER CONSULTANTS INC
LOS ALAMOS	5107	06	SANTA BARBAR	34 45	120 17 W	565		08		H	S BARBARA CO FIRE STN#24
LOS ANGELES WSO ARPT	5114	06	LOS ANGELES	33 56	118 24 W	97	MID	MID		C	NWS
LOS ANGELES CIVIC CENT #	5115	06	LOS ANGELES	34 3	118 14 W	270	MID	MID		C	WSFO
LOS BANOS	5118	05	MERCED	37 3	120 52 W	120	08	08		H	CENTRAL CALIF IRR DIST
LOS BANOS ARBURUA RANC	5119	05	MERCED	36 53	120 56 W	860		17		H	ARBURUA RANCH
LOS BANOS DET RESV	5120	05	MERCED	37 1	120 56 W	407	09	09	09	H	CA DEPT WATER RESOURCES
LOS GATOS	5123	04	SANTA CLARA	37 14	121 58 W	365	17	17		H	SHANNON FIRE STATION
LOS GATOS 4 SW	5125	04	SANTA CRUZ	37 11	122 2 W	2415		08		H	INACTIVE 02/01/89
LOS PRIETOS RANGER STN	5147	06	SANTA BARBAR	34 33	119 47 W	1024		08		H	U S FOREST SERVICE
LYTLE CREEK RANGER STN	5218	06	SAN BERNARDI	34 14	117 29 W	2730		08		C	U S FOREST SERVICE
MADERA	5233	05	MADERA	36 57	120 2 W	270	08	08		H	MADERA COUNTY FIRE DEPT
MAD RIVER RANGER STN	5244	01	TRINITY	40 27	123 32 W	2675	08	08		H	INACTIVE 01/01/89
MANZANITA LAKE	5311	02	SHASTA	40 32	121 34 W	5748	08	08		H	US NAT PARK SERVICE
MARICOPA	5338	05	KERN	35 5	119 23 W	675	08	08		H	STANDARD OIL OF CALIF
MARIPOSA RANGER STN	5352	05	MARIPOSA	37 30	119 59 W	2100		08		H	CAL DIVISION OF FORESTRY
MARKLEY COVE	5360	02	NAPA	38 30	122 7 W	480	08	08	08	H	SOLANO IRRIGATION DIST
MARTINEZ WATER PLANT	5378	04	CONTRA COSTA	38 1	122 7 W	40	08	08		H	MARTINEZ WTR PURIF PLT
MARYSVILLE	5385	02	YUBA	39 9	121 36 W	57	09	09		H	MARYSVILLE FIRE DEPT
MATHER	5400	05	TUOLUMNE	37 53	119 51 W	4510		08		H	CITY SAN FRANCISCO
MC CLOUD	5449	02	SISKIYOU	41 15	122 8 W	3279	07	07		H	MCCLOUD COMMUNITY SERV
MECCA FIRE STATION	5502	07	RIVERSIDE	33 34	116 4 W	-180	17	08		H	MECCA FIRE STATION

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MERCED MUNICIPAL ARPT	553205	05	MERCED	37 17	120 31W	153	17	17		H	MERCED MUNICIPAL AP
MIDDLETOWN	559802	02	LAKE	38 45	122 37W	1130		08		H	CA STATE DEPT FORESTRY
MINERAL	567902	02	TEHAMA	40 21	121 36W	4875	08	08		C	NATIONAL PARK SERVICE
MITCHELL CAVERNS	572107	07	SAN BERNARDI	34 56	115 32W	4350	16	16		H	CA DEPT OF PARKS & REC
MODESTO	573805	05	STANISLAUS	37 39	121 0W	91	MID	MID		H	MODESTO IRRIG DIST
MOJAVE	575607	07	KERN	35 3	118 10W	2735	16	16		C	KERN CO FIRE DEPT
MONTEBELLO	579006	06	LOS ANGELES	34 2	119 56W	240	16	16		H	MONTEBELLO FIRE DEPT
MONTEREY	579504	04	MONTEREY	36 36	121 54W	385	18	18		H	ROBERT J RENARD
MORRO BAY FIRE DEPT	586604	04	SAN LUIS OBI	35 22	120 51W	115	08	08		H	MORRO BAY FIRE DEPT.
MOUNTAIN PASS	589007	07	SAN BERNARDI	35 28	115 32W	4730	08	08		H	STATE DIV OF HIGHWAYS
MOUNT DIABLO JUNCTION	591504	04	CONTRA COSTA	37 52	121 56W	2170	08	08		H	MT DIABLO STATE PARK
MOUNT HAMILTON	593304	04	SANTA CLARA	37 20	121 39W	4206	16	16		H	LICK OBSERVATORY
MOUNT HEBRON RNG STN	594101	01	SISKIYOU	41 47	122 2W	4250	08	08		H	U S FOREST SERVICE
MOUNT SHASTA	598302	02	SISKIYOU	41 19	122 19W	3590	17	17		C	FRANK CHRISTINA
MT WILSON NO 2 # / /	600606	06	LOS ANGELES	34 14	118 44W	5708	15	15		H	LUCIAN W RAROGIEWICZ
MUIR WOODS	602701	01	MARIN	37 54	122 34W	220		14		H	NATIONAL PARK SERVICE
NAPA STATE HOSPITAL	607401	01	NAPA	38 17	122 16W	35	17	08		H	NAPA ST HOSP-FIRE DEPT
NEEDLES FAA AIRPORT	611807	07	SAN BERNARDI	34 46	114 37W	914	10	10		H	FAA
NEVADA CITY	613602	02	NEVADA	39 15	121 1W	2781	07	07		H	CITY OF NEVADA
NEWARK	614404	04	ALAMEDA	37 31	122 2W	10	08	08		H	LESLIE SALT COMPANY
NEW CUYAMA FIRE STN	615406	06	SANTA BARBAR	34 57	119 41W	2160	17	08		C	COUNTY FIRE STN 41
NEWHALL SOLEDAD FC32CE	616206	06	LOS ANGELES	34 23	118 32W	1243		16		C	L A CO FLOOD CONTROL
NEWHALL #	616506	06	LOS ANGELES	34 22	118 34W	1400	MID	MID		H	ROBERT FOOTLIK
NEWMAN	616809	09	STANISLAUS	37 18	121 2W	90	17	17		H	RICHARD A SMITH
NEW MELONES DAM	617205	05	TUOLUMNE	37 57	120 32W	775	08	08		OBC	U S BUREAU RECLAMATION
NEWPORT BEACH HARBOR	617506	06	ORANGE	33 36	117 53W	10	17	17		H	ORANGE CO HARBOR DIST
NICOLAUS 2	619402	02	SUTTER	38 55	121 33W	43		08		H	RECLAMATION DIST 1001
NILAND	619707	07	IMPERIAL	33 17	115 31W	-60		08		H	IMPERIAL IRRIG DIST
NORTH FORK RANGER STN	625205	05	MADERA	37 14	119 30W	2630	08	08		H	U S FOREST SERVICE
OAK GROVE RANGER STN	631906	06	SAN DIEGO	33 23	116 48W	2750	13	13		C	OAK GROVE STN USFS
OAK KNOLL RANGER STN 2	632901	01	SISKIYOU	41 51	122 53W	1700		08		H	U S FOREST SERVICE
OAKLAND MUSEUM #	633604	04	ALAMEDA	37 48	122 16W	30	MID	MID		H	NWS
OCCIDENTAL	637001	01	SONOMA	38 25	122 58W	960		17		H	ROSEMARY BLANEY
OCEANSIDE MARINA	637706	06	SAN DIEGO	33 13	117 24W	10	16	16		H	OCCSIDE SML CRFT HAR DIS
OCOTILLO 2	639007	07	IMPERIAL	32 45	116 0W	410		07		H	WILLIAM ARNETT
OJAI	639906	06	VENTURA	34 27	119 14W	750	16	08		H	VENTURA COUNTY FIRE DEPT
ORANGE COVE	647605	05	FRESNO	36 37	119 18W	430	10	10		H	ORANGE COVE CIT ASSN
ORICK PRAIRIE CREEK PK	649801	01	HUMBOLDT	41 22	124 1W	160	16	16		H	DEPT OF PARKS & REC
ORLAND	650602	02	GLENN	39 45	122 12W	254	08	08		H	ORLAND WATER USERS ASSOC
ORLEANS	650801	01	HUMBOLDT	41 18	123 32W	410	18	18		H	JACK G CLARK
OROVILLE	652102	02	BUTTE	39 31	121 33W	171	07	07		C	FEATHER RIVER HATCHERY
OXNARD	656906	06	VENTURA	34 12	119 11W	49	08	08		H	CITY OF OXNARD
PACIFIC HOUSE	659702	02	EL DORADO	38 45	120 30W	3440		07		H	GEORGIA POOLE
PACIFICA 4 SSE	659904	04	SAN MATEO	37 35	122 28W	475	16	16		H	MRS ALEXANDRA WILLOUGHBY
PACOIMA DAM FC 33 A-E	660206	06	LOS ANGELES	34 20	118 24W	1500		08		H	L A CO DEPT PUBLIC WORKS
PAICINES 5 W	661004	04	SAN BENITO	36 44	121 22W	980		08		H	BILL SALING
PALMDALE	662407	07	LOS ANGELES	34 35	118 6W	2596	17	17		C	PALMDALE IRRIG DIST
PALM SPRINGS	663507	07	RIVERSIDE	33 50	116 30W	425	16	16		H	PALM SPGS FIRE DEPT
PALO ALTO	664604	04	SANTA CLARA	37 27	122 8W	25	08	08		H	PALO ALTO FIRE STN 3
PALOMA	665004	04	MONTEREY	36 21	121 30W	1775		17		H	LOIS A BELL
PALOMAR MTN OBSERVATOR	665706	06	SAN DIEGO	33 21	116 52W	5550	07	07		C	PALOMAR OBSERVATORY
PALOS VERDES EST FC43D	666306	06	LOS ANGELES	33 48	118 23W	216		07		H	L A CO DEPT PUBLIC WORKS
PANOCHÉ 2 W	667505	05	SAN BENITO	36 36	120 52W	1320		18		H	MRS MARGARET STROHM
PARADISE	668502	02	BUTTE	39 45	121 37W	1750	08	08		H	PARADISE FIRE DEPT

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							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
PARKER RESERVOIR	66999	06	SAN BERNARDI	34 17	114 10W	738	07	07		C H	METRO WATER DISTRICT
PASADENA	67119	06	LOS ANGELES	34 9	118 9W	864	16	16		C H	PASADENA WATER DEPT
PASKENTA RANGER STN	67266	02	TEHAMA	39 53	122 32W	755		08		C H	U S FOREST SERVICE
PASO ROBLES	67300	04	SAN LUIS OBI	35 38	120 41W	700	17	17		C H	CITY-PASO ROBLES WTR D
PASO ROBLES FAA ARPT	67422	04	SAN LUIS OBI	35 40	120 38W	800	MID	MID		C H	FAA
PEARBLOSSOM	67773	07	LOS ANGELES	34 30	117 53W	3049	17	17		C H	LA COUNTY FIRE DEPT
PETALUMA FIRE STN 3	68226	01	SONOMA	38 14	122 38W	277	08	08		C H	PETALUMA FIRE STN 3
PINE FLAT DAM	68966	05	FRESNO	36 49	119 20W	610		07		C H	U S CORPS OF ENGINEERS
PINNACLES NATL MONUMEN	69226	04	SAN BENITO	36 29	121 11W	1307	08	08		H	NATIONAL PARK SERVICE
PIRU 2 ESE	69440	06	VENTURA	34 24	118 45W	730		07		H	CAMULOS RANCH
PISMO BEACH	69433	04	SAN LUIS OBI	35 8	120 38W	80	07	07		H	POLICE DEPARTMENT
PIT RIVER P H 1	69440	02	SHASTA	41 0	121 30W	2880		16		H	PACIFIC GAS & ELECTRIC
PIT RIVER P H 5	69460	02	SHASTA	40 59	121 59W	1458		17		H	P G & E COMPANY
PLACERVILLE	69660	02	EL DORADO	38 43	120 49W	1850	08	08		H	PACIFIC GAS & ELEC CO
PLACERVILLE IFG	69622	02	EL DORADO	38 44	120 44W	2755	16	16		H	INST FORESTRY GENETICS
POMONA CAL POLY	70500	06	LOS ANGELES	34 4	117 49W	740	16	16		H	CALIF POLYTECHNIC UNIV
PORTERVILLE	70777	05	TULARE	36 4	119 1W	393	08	08		H	JOHN H DAYBELL
PORTOLA	70850	02	PLUMAS	39 48	120 28W	4850	17	17		C H	MS PAT CHENEY
POTTER VALLEY P H	71109	01	MENDOCINO	39 22	123 8W	1015	16	16		C H	PACIFIC GAS & ELECTRIC
POWAY VALLEY	71111	06	SAN DIEGO	33 1	117 2W	648		16		H	POWAY FIRE DEPT STN #2
PRIEST VALLEY	71500	04	MONTEREY	36 11	120 42W	2300	SS	SS		H	NELSON H PALMER
QUINCY	71955	02	PLUMAS	39 58	120 57W	3408	08	08		H	U S FOREST SERVICE
RAMONA FIRE DEPT	72228	06	SAN DIEGO	33 3	116 52W	1450	15	15		H	RAMONA FIRE DEPT
RANDBURG	72530	07	KERN	35 22	117 39W	3570	17	08		H	KERN CO FIRE DEPT
RED BLUFF FSS	72920	02	TEHAMA	40 9	122 15W	349	MID	MID		H	RED BLUFF FSS
REDDING WSO	73040	02	SHASTA	40 30	122 18W	502	MID	MID		C H	NWS
REDLANDS	73066	06	SAN BERNARDI	34 3	117 11W	1318	09	14		C H	REDLANDS DAILY FACTS
REDWOOD CITY	73339	04	SAN MATEO	37 29	122 14W	31	17	17		H	CITY FIRE DEPT STA 2
REPRESA	73700	02	SACRAMENTO	38 42	121 10W	295		MID		H	FOLSOM STATE PRISON
RICHARDSON GROVE ST PK	74040	01	HUMBOLDT	40 2	123 47W	500	08	08		H	RICHARDSON GROVE ST PK
RICHMOND #	74140	04	CONTRA COSTA	37 56	122 21W	55	18	18		H	CITY OF RICHMOND
RIVERSIDE FIRE STN 3	74700	06	RIVERSIDE	33 57	117 23W	840	17	17		H	RIVERSIDE FIRE STA 3
RIVERSIDE CITRUS EXP S	74730	06	RIVERSIDE	33 58	117 21W	986	MID	MID		C H	NWS
ROUND MOUNTAIN PG & E	75810	02	SHASTA	40 48	121 56W	2099		18		C C	PACIFIC GAS AND ELEC CO
SACRAMENTO FAA ARPT	R7630	02	SACRAMENTO	38 31	121 30W	18	MID	MID		C H	FAA
SACRAMENTO WSO CITY #	R7633	02	SACRAMENTO	38 35	121 30W	25	MID	MID		C	NWS
SAGEHEN CREEK	76410	03	NEVADA	39 26	120 14W	6337	17	17		H	UNIVERSITY OF CALIF
SAINTE HELENA	76430	01	NAPA	38 30	122 28W	225	08	08		H	CAL STATE DEPT FORESTRY
SALINAS 3 E	76680	04	MONTEREY	36 40	121 36W	85	17	17		H	U S DEPT OF AGRICARS
SALINAS FAA AIRPORT	76690	04	MONTEREY	36 40	121 36W	69	MID	MID		H	FAA
SALINAS DAM	76720	04	SAN LUIS OBI	35 20	120 30W	1245		08		H	SALINAS DAM OPERATORS
SALSIPUEDES GAGING STN	76810	06	SANTA BARBAR	34 35	120 24W	2250		08		H	JOE CABRAL JR
SALT SPRINGS PWR HOUSE	76890	05	AMADOR	38 30	120 13W	3700	15	15		H	PACIFIC GAS & ELEC CO
SAN BERNARDINO CO HOSP	77230	06	SAN BERNARDI	34 8	117 16W	1125	18	18		H	S B COUNTY HOSPITAL
SAN CLEMENTE DAM	77310	04	MONTEREY	36 26	121 42W	600		08		H	CALIF AMERICAN WATER CO
SANDBERG WSMO	R7735	06	LOS ANGELES	34 45	118 44W	4517	MID	MID		H	US NWS
SAN DIEGO WSO AIRPORT #	R7740	06	SAN DIEGO	32 44	117 10W	13	MID	MID		C H	NWS
SAN DIMAS FIRE FC95	77490	06	LOS ANGELES	34 6	117 48W	955		08		H	LA CO DEPT PUBLIC WORKS
SAN FRANCISCO RICHMOND	R7767	04	SAN FRANCISCO	37 46	122 30W	32	17	MID		C C	CITY SAN FRANCISCO
SAN FRANCISCO WSO AP	R7769	04	SAN FRANCISCO	37 37	122 23W	8	MID	MID		C C	NWS
SAN FRAN MISSION DOLOR #	R7772	04	SAN FRANCISCO	37 46	122 26W	75	MID	MID		C C	NWS
SAN GABRIEL CANYON PH	77760	06	LOS ANGELES	34 9	117 54W	744		17		H	PASADENA WATER & POWER
SAN GABRIEL DAM FC425B	77790	06	LOS ANGELES	34 12	117 52W	1481		08		H	LA CO DEPT PUBLIC WORKS
SAN GABRIEL FIRE DEPT	77850	06	LOS ANGELES	34 6	118 6W	450	16	16		H	CITY FIRE DEPARTMENT

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							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
SAN GREGORIO 2 SE	780704		SAN MATEO	37 18	122 22W	275	19	19		H	GARY J ARATA
SAN JACINTO RANGER STN	781306		RIVERSIDE	33 47	116 58W	15660	17	08		C	CA STATE DEPT FORESTRY
SAN JOSE	782104		SANTA CLARA	37 21	121 54W	67	16	16		C	CITY OF SAN JOSE
SAN LUIS DAM	784605		MERCED	37 3	121 4W	277	08	08	O B	C	CAL DEPT WTR RESOURCES
SAN LUIS OBISPO POLYTE	785104		SAN LUIS OBI	35 18	120 40W	315	07	07		C	CAL STATE POLY UNIV
SAN PASQUAL ANIMAL PAR	787406		SAN DIEGO	33 55	117 0W	420	16	16		C	SAN DIEGO WLD ANIMAL PK
SAN RAFAEL CIVIC CENTE #	788801		MARIN	38 00	122 31W	120	16	16		H	MARIN COUNTY COMMS DEPT
SANTA ANA FIRE STN #	788806		ORANGE	33 45	117 52W	135	16	16		H	SANTA ANA FIRE DEPT
SANTA BARBARA	790206		SANTA BARBAR	34 25	119 41W	5	MID	MID		C	CITY OF SANTA BARBARA
SANTA BARBARA FAA ARPT	790506		SANTA BARBAR	34 26	119 50W	9	MID	MID		H	FAA
SANTA CRUZ	791604		SANTA CRUZ	36 59	122 1W	130	17	17		H	RONALD A MACDONALD
SANTA MARGARITA BOOSTE	793304		SAN LUIS OBI	35 22	120 38W	1100		08		C	CUESTA TUNNEL BOOSTER ST
SANTA MARIA WSO ARPT	794606	R	SANTA BARBAR	34 54	120 27W	254	MID	MID		C	NWS
SANTA MONICA PIER #	795306		LOS ANGELES	34 0	118 30W	14	16	16		H	HARBORMASTER
SANTA PAULA	795706		VENTURA	34 19	119 9W	237	16	08		H	VENTURA COUNTY FIRE DEPT
SANTA ROSA #	796501		SONOMA	38 27	122 42W	167	08	08		H	SANTA ROSA PRESS DEMOCRT
SAUGUS POWER PLANT 1	801406		LOS ANGELES	34 35	118 27W	2105	07	07		H	L A WTR & PWR DEPT
SCOTIA #	804501		HUMBOLDT	40 29	124 6W	139	08	08		H	PACIFIC LUMBER CO
SHASTA DAM	813502		SHASTA	40 43	122 25W	1075	08	08	O B C	H	U S BUREAU RECLAMATION
SHELTER COVE AVIATION	816301		HUMBOLDT	40 1	124 4W	415	16	16		H	H W YOUNG
SHOSHONE	820007		INYO	35 58	116 16W	1570		07		H	CA DIV OF HIGHWAYS
SIERRA CITY	820702		SIERRA	39 34	120 38W	4230	07	07		H	SHIRLEY POLLARD
SIERRA RANGER STN	821802		SIERRA	39 35	120 22W	4975	08	08		C	U S FOREST SERVICE
SNOW CREEK UPPER	831707		RIVERSIDE	33 52	116 41W	1940		07		H	DESERT WATER AGENCY
SONOMA	835101		SONOMA	38 18	122 28W	97	16	16		H	CAL DEPT PARKS & REC
SONORA RANGER STN	835305		TUOLUMNE	37 59	120 23W	1749	08	08		H	STATE DIV OF FORESTRY
SOUTH ENTR YOSEMITE NP	838005		MARIPOSA	37 30	119 38W	5120	08	08		H	NATIONAL PARK SERVICE
SOUTH LAKE	840607		INYO	37 11	118 34W	9580		MID		H	SO CALIF EDISON CO
SPRECKELS HWY BRIDGE	844604		MONTEREY	36 36	121 41W	60		08		H	INACTIVE 07/01/88
STANDISH HICKEY ST PK	849001		MONTEREY	39 53	123 44W	850		08		H	CA DEPT-PARKS & REC
STOCKTON WSO	855805		SAN JOAQUIN	37 54	121 15W	22	MID	MID		C	NWS
STOCKTON FIRE STN # 4	856005		SAN JOAQUIN	38 0	121 19W	12	08	08		H	STOCKTON FIRE STA 4
STONY FORD RANGER STN	858002		COLUSA	39 23	122 33W	1168		08		H	U S FOREST SERVICE
STONY GORGE RESERVOIR	858702		GLENN	39 35	122 32W	800	08	08		C	ORLAND WATER USERS ASSN
STRAWBERRY VALLEY	860602		YUBA	39 34	121 6W	3808	08	08		H	BEN BORSOFF
SUN CITY	865506		RIVERSIDE	33 43	117 12W	1420	14	14		H	RIVERSIDE CO FIRE DEPT
SUSANVILLE ARPT	870203		LASSEN	40 23	120 34W	4146	08	08		H	SIERRA AIR SERVICE
TAHOE CITY	875803		PLACER	39 10	120 8W	6230	08	08	O B	H	JAMES MILLER
TAHOE VALLEY FAA AP	876203		EL DORADO	38 54	120 0W	6252	20			H	FAA
TEHACHAPI	882605		KERN	35 8	118 27W	4017	16	08		H	KERN COUNTY FIRE DEPT
TEJON RANCHO	883903		KERN	35 2	118 45W	1425	17	17		H	TEJON RANCH COMPANY
TERMO 1 E	887303		LASSEN	40 52	120 26W	5300	19	19		C	DENNIS RAY HUNKE
THERMAL FAA AIRPORT	889207		RIVERSIDE	33 38	116 10W	-112	21	21		H	FAA
THREE RIVERS ED PH 1	891705		TULARE	36 28	118 52W	1140	15	15		C	SO CALIF EDISON CO
TIGER CREEK PH	892805		AMADOR	38 27	120 29W	2355	16	16		C	PACIFIC GAS & ELEC CO
TOPANGA PATROL STN FC6	R896706		LOS ANGELES	34 5	118 36W	745		08		H	L A CO DEPT PUBLIC WORKS
TORRANCE	897306		LOS ANGELES	33 48	118 20W	110	16	16		H	TORRANCE MUN AIRPORT
TRACY CARBONA	899905		SAN JOAQUIN	37 42	121 25W	140	07	07		H	BANTA CARBONA IRRIG DIST
TRACY PUMPING PLANT	900109		ALAMEDA	37 48	121 35W	61	09	09	O 9	H	U S BUREAU RECLAMATION
TRINITY RIVER HATCHERY	902601		TRINITY	40 43	122 48W	1860	08	08	O 8	H	U S BUREAU RECLAMATION
TRONA	903507		SAN BERNARDI	35 46	117 23W	1695	08	08		H	KERR MCGEE CHEM CORP
TRUCKEE RANGER STN	904303		NEVADA	39 20	120 11W	6020	08	08		H	U S FOREST SERVICE
TULELAKE	905301		SISKIYOU	41 58	121 28W	4035	16	16	16 C	H	TULELAKE IRRIGATION DIST
TURLOCK #2	907305		STANISLAUS	37 29	120 51W	115	MID	MID		H	TURLOCK IRRIGATION DIST

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TUSTIN IRVINE RANCH	9087	06	ORANGE	33	44	117	47W	1118	07	07				TREASURE FARMS
TWENTYNINE PALMS	9099	07	SAN BERNARDI	34	8	116	2W	1975	15	15			H	US NATIONAL PARK SERVICE
TWIN LAKES	9105	02	ALPINE	38	42	120	2W	8000	08	08			H	CA DEPT OF TRANSPORTATION
TWITCHELL DAM	9111	06	SANTA BARBARA	34	59	120	19W	5582	16	16	16		H	SANTA MARIA VLY WCD
UKIAH	9122	01	MENDOCINO	39	9	123	12W	6333	18	18			H	UKIAH FIRE DEPARTMENT
UKIAH 4 WSW	9124	01	MENDOCINO	39	8	123	16W	1900	08	08			H	MRS MARJORIE S DORY
UCLA #	9152	06	LOS ANGELES	34	4	118	27W	4300	16	16			H	ATMOSPHERIC SCIENCE DEPT
UPPER SAN LEANDRO FLTR	9185	04	ALAMEDA	37	46	122	10W	394	06	06		C	H	E BAY MUN UTL DIST
VACAVILLE	9200	02	SOLANO	38	24	121	57W	110	17	17			H	VACAVILLE FIRE STATION 3
VAN NUYS FC15A	9260	06	LOS ANGELES	34	11	118	27W	695		16			H	LA CNTY DEPT OF PUB WKS
VENTURA	9285	06	VENTURA	34	17	119	17W	95		08			H	VENTURA CO FLOOD CONT
VICTORVILLE PUMP PLANT	9325	07	SAN BERNARDI	34	32	117	18W	2858	08	08		C	H	VICTOR CO WATER DIST
VINCENT FIRE STN FC120	9345	06	LOS ANGELES	34	29	118	8W	3133		17			H	LA CO DEPT PUBLIC WORKS
VINTON	9351	02	PLUMAS	39	49	120	11W	4950		16			H	FRANK DOTTA
VISALIA	9367	05	TULARE	36	20	119	18W	3250		08			H	VISALIA FIRE DEPARTMENT
VISTA 2 NNE	9378	06	SAN DIEGO	33	14	117	14W	510	16	16			H	VISTA FIRE DEPT
VOLTA POWER HOUSE	9390	02	SHASTA	40	28	121	52W	2219		16		C	H	P G & E COMPANY
WALNUT NI FC102C	9431	06	LOS ANGELES	34	0	117	52W	488		08			H	LA CO DEPT PUBLIC WORKS
WARM SPRINGS DAM	9440	01	SONOMA	38	43	123	0W	224	08	08	08	C	H	US CORPS OF ENGINEERS
WASCO	9452	05	KERN	35	36	119	20W	345	16	08			H	KERN COUNTY FIRE DEPT
WATSONVILLE WATERWORKS	9473	04	SANTA CRUZ	36	56	121	46W	95	08	08			H	CITY OF WATSONVILLE
WEAVERVILLE RANGER STN	9490	01	TRINITY	40	44	122	56W	2049	08	14		C	H	US FOREST SERVICE
WEED FIRE DEPT	9499	01	SISKIYOU	41	26	122	23W	3589		08			H	WEED FIRE DEPARTMENT
WESTHAVEN	9560	05	FRESNO	36	13	119	59W	285		07			H	BOSTON LAND COMPANY
WEST POINT	9582	05	CALAVERAS	38	24	120	32W	2820		08			H	STATE DIV OF FORESTRY
WHISKEYTOWN RESERVOIR	9621	02	SHASTA	40	37	122	32W	1295		08		08	H	NATIONAL PARK SERVICE
WHITTIER CITY YD FC106	9660	06	LOS ANGELES	33	59	118	3W	260		17			H	LA CO DEPT PUBLIC WORKS
WILDROSE RANGER STN	9671	10	INYO	36	16	117	11W	4100	16	16			H	NATIONAL PARK SERVICE
WILLITS 1 NE	9684	01	MENDOCINO	39	25	123	20W	1349	09	09			H	CITY OF WILLITS
WILLOW CREEK 1 NW	9694	01	HUMBOLDT	40	57	123	38W	461	08	08	08		H	US FOREST SERVICE
WILLOWS 6 W	9699	02	GLENN	39	31	122	18W	233	16	16			H	TEHAMA-COLUSA CANAL AUTH
WINTERS	9742	02	YOLO	38	32	121	58W	135	09	09			H	J NEWTON WALLACE
WOODFORDS	9775	03	ALPINE	38	47	119	48W	5650	16	16		C	H	DAVID O ZELLMER
WOODLAND 1 WNW	9781	02	YOLO	38	41	121	48W	69	08	08			H	COOP EXTENSION SERV
WOODSIDE FIRE STN 1	9792	04	SAN MATEO	37	26	122	15W	380	17	17			H	WOODSIDE FIRE DEPT
YOSEMITE NATL PARK HQS	9855	05	MARIPOSA	37	45	119	35W	3966	07	07		C	H	NATIONAL PARK SERVICE
YREKA	9866	01	SISKIYOU	41	43	122	38W	2625	08	08			H	CA DIV OF FORESTRY

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## DEFINITIONS

**STATION NAMES:** Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

**DIVISIONS:** Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record both temperature and precipitation (ie: not precipitation alone).

**NORMALS:** The average value of the meteorological element over a time period. Effective 1 January 1983, the averaging period is 1951 to 1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

**MONTHLY DEGREE DAY TOTALS:** One heating (cooling) degree day is accumulated for each whole degree that the daily mean temperature is BELOW (ABOVE) 65 degrees Fahrenheit.

**PRECIPITATION:** Values shown in hundredths of inches are water equivalent totals, i.e. total of liquid and melted frozen precipitation. In the "MONTHLY SUMMARIZED DATA" table the total snow and sleet values shown in tenths of inches are unmelted amounts. The max. depth on ground values of snow and sleet shown in whole inches are cumulative unmelted amounts. The no. of days with .10, .50, 1.00 or more refers to water equivalents.

**TEMPERATURE:** Original and edited temperature values are given in the Daily Temperature Table. Edited values are produced when an original value is missing or when surrounding stations indicate a suspect original value. When a line labeled OBS is present and contains either a daily temperature (suspect) or \*\*\* (missing), the temperature appearing directly above, on the line labeled MAX or MIN, is an edited value. Summary temperature information (averages, departures, extremes, monthly degree day totals) is based on the values labeled MAX/MIN.

**WIND:** (As shown in "Evaporation and Wind" table) The total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

## SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

# Thermometers located in a rooftop shelter.  
// Rain Gage equipped with a windshield.  
AR Observation made "after rain" has occurred.  
C Station is equipped with recording rain gage (R) but values in this bulletin are from a non-recording rain gage unless indicated by an R.  
G Observations appear in "Soil Temperatures" table.  
H Observations appear in "Snowfall and Snow on Ground" table.  
J Station also published as a Local Climatological Data publication.  
MID Observation time is midnight.  
MO Rain gage read once monthly, usually the last day.  
OC Rain gage readings vary from a few weeks to several months.  
R Amounts from recording rain gage.  
SR Observation time near sunrise.  
SS Observation time near sunset.  
VAR Observation time varies.  
WI Rain gage read weekly or irregularly.  
WM Rain gage read weekly and last day of month.

## SYMBOLS AND LETTERS USED IN THE DATA TABLES

(DAILY DATA ARE FOR THE 24 HOURS IMMEDIATELY PRECEDING OBSERVATION TIME.)

BLANK entries in the "Monthly Summarized Data" table indicate no record.  
BLANK entries in the "Daily Precipitation" and "Snowfall and Snow on Ground" tables indicate zero.

BLANK entries in the "Daily Temperature" table indicate a missing record where an edited value could not be determined. (See \*\*\* below)

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.

+ Precipitation or temperature extremes occurred on one or more previous dates during the month.

\*\*\* Missing original temperature which has been estimated during edit.

\* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known. A \* preceding the monthly total indicates precipitation amount is being carried forward to next months total, and may include amounts from the previous month(s).

// Rain gage equipped with a windshield.

A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to earlier bulletin to determine date of last reading. (HAWAII stations)

B Adjusted monthly value (estimated), (1-7 missing values for wind and evaporation).

M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing, (8 or more for wind and evaporation).

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

V Includes total for previous month(s). (See \* above)

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of this bulletin. Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

The graphic displays appearing in this publication were first produced for the January 1987 data month. The types of graphs and the information they portray may vary from month to month and from state to state in order to highlight climatic features of state, regional, and seasonal interest. Some graphs present information for "clusters". A cluster is a group of up to four (4) adjacent divisions that comprise an area of similar climate.

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Historical information for regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication. The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Climatic Data Center. The data are also available in digital form on magnetic tape and diskette.

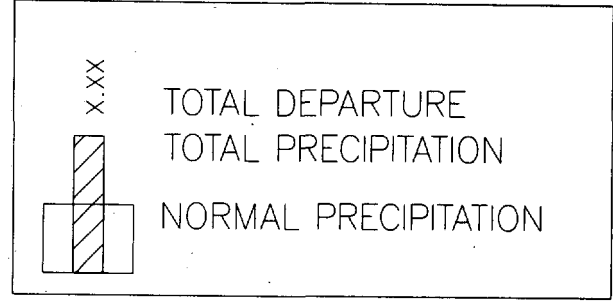
SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

NATIONAL CLIMATIC DATA CENTER  
FEDERAL BUILDING  
ASHEVILLE, NC 28801-2696

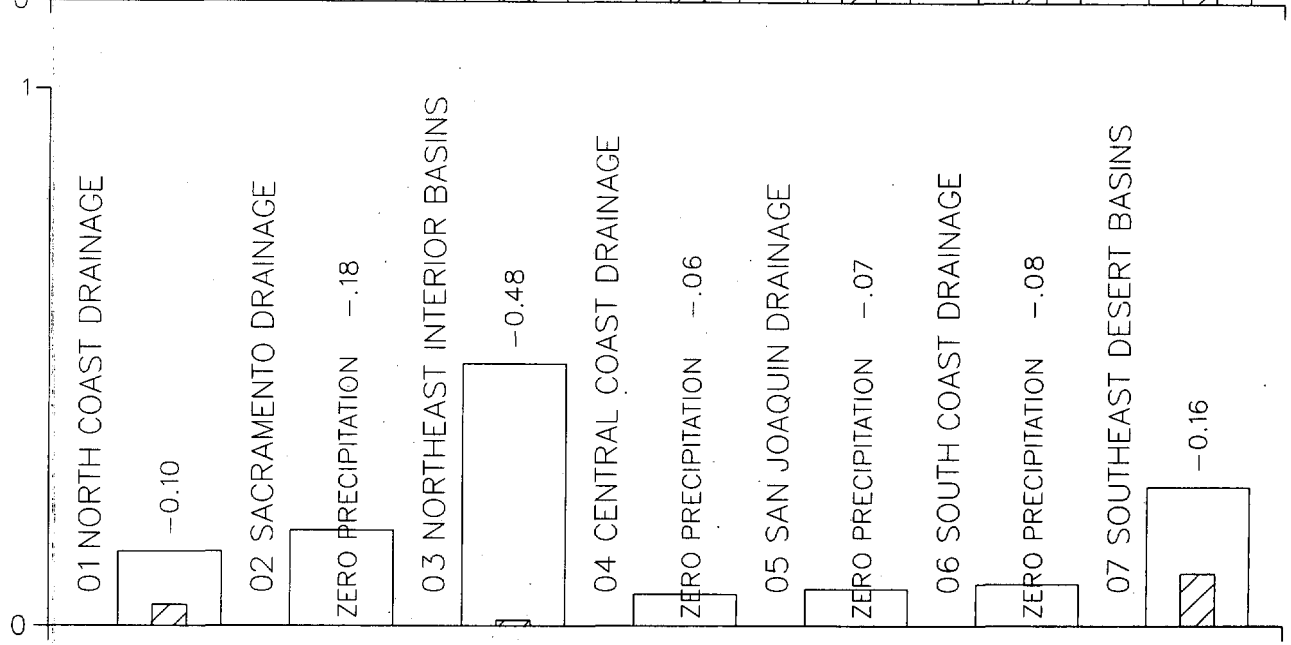
USCOMM-NOAA-ASHEVILLE, N.C. JULY 1989-1675

# SIX MONTH CUMULATIVE PRECIPITATION DIVISIONAL TOTALS AND DEPARTURES FROM NORMAL (1951-1980) JULY 1989

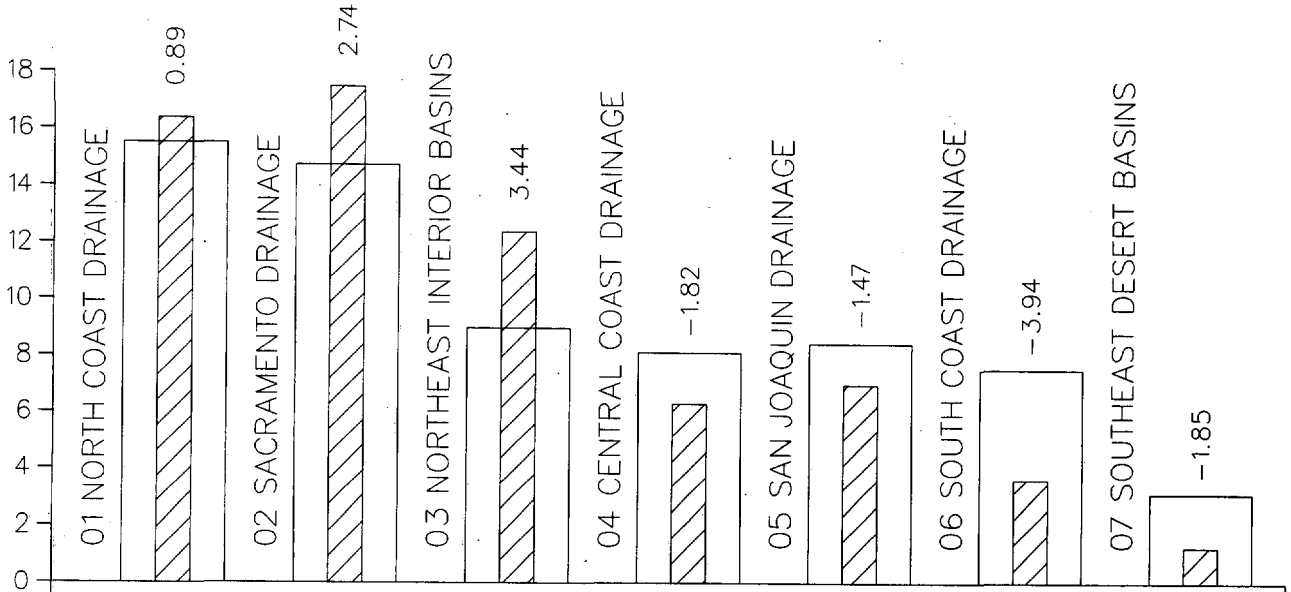
CALIFORNIA



CURRENT MONTH PRECIPITATION (INCHES)



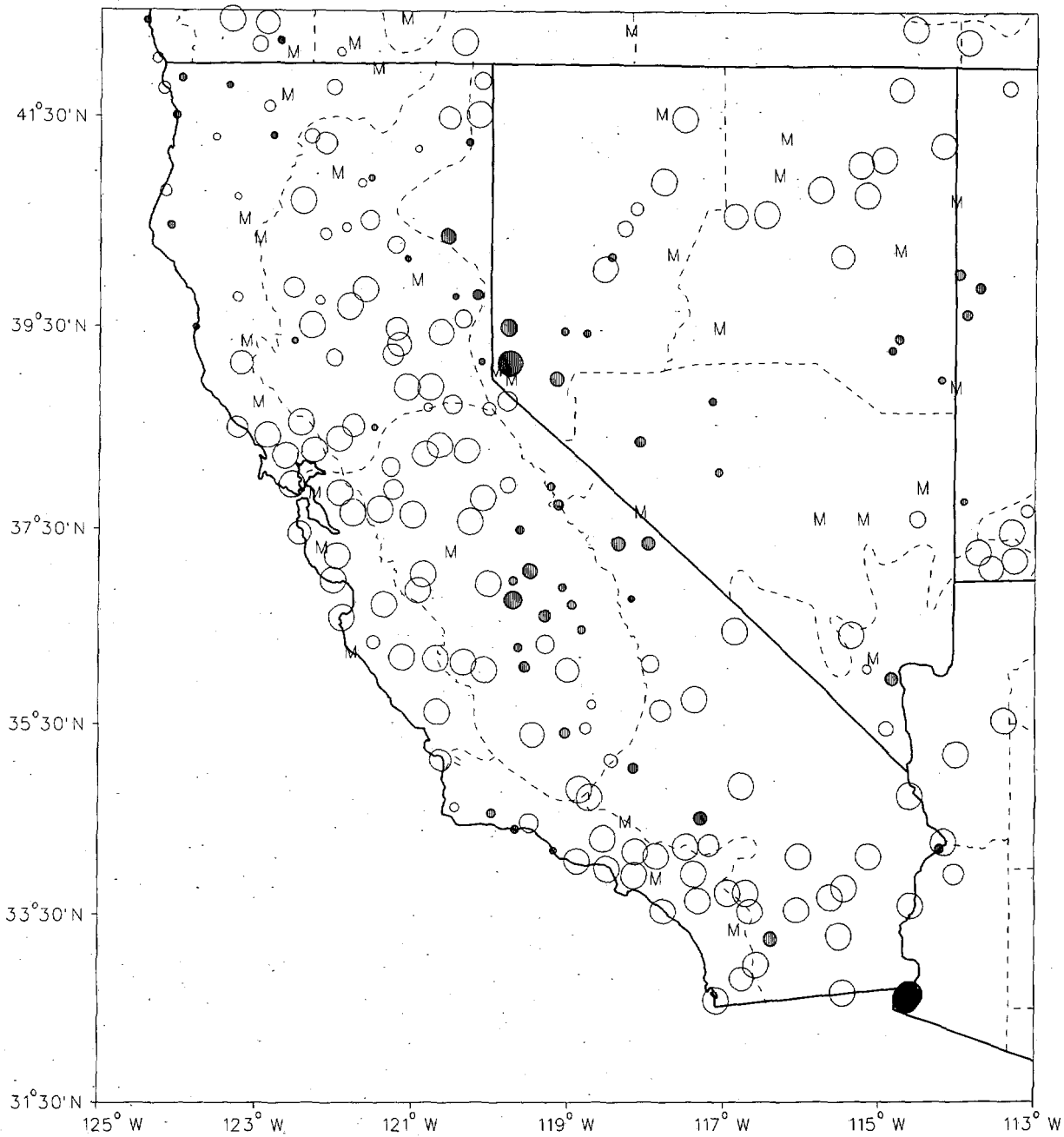
CUMULATIVE PRECIPITATION (INCHES)



DIVISIONS

CUMULATIVE 3 MONTHS PRECIPITATION DEPARTURE FROM  
 INDIVIDUAL STATION NORMALS (1951-1980)  
 FOR PERIOD ENDING JULY 1989  
 CALIFORNIA

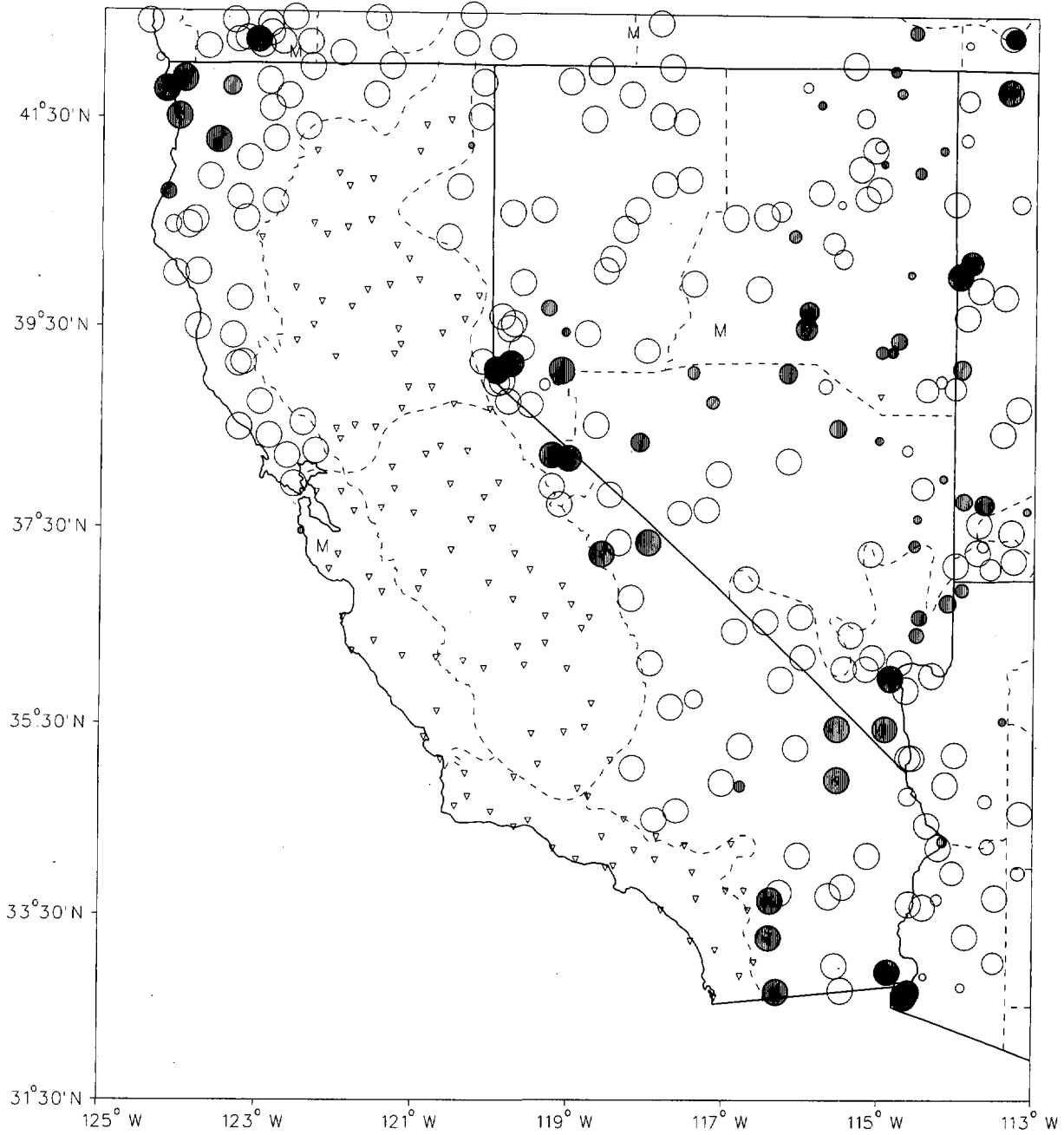
- M INCOMPLETE DATA FOR THE PERIOD
- ▽ EXACTLY NORMAL
- ○ ○ ○ 5,10,20,... 50% OR MORE BELOW NORMAL
- ● ● ● 10,20,40,...100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

MONTHLY PRECIPITATION DEPARTURE FROM  
THE DIVISIONAL AVERAGE FOR  
JULY 1989  
CALIFORNIA

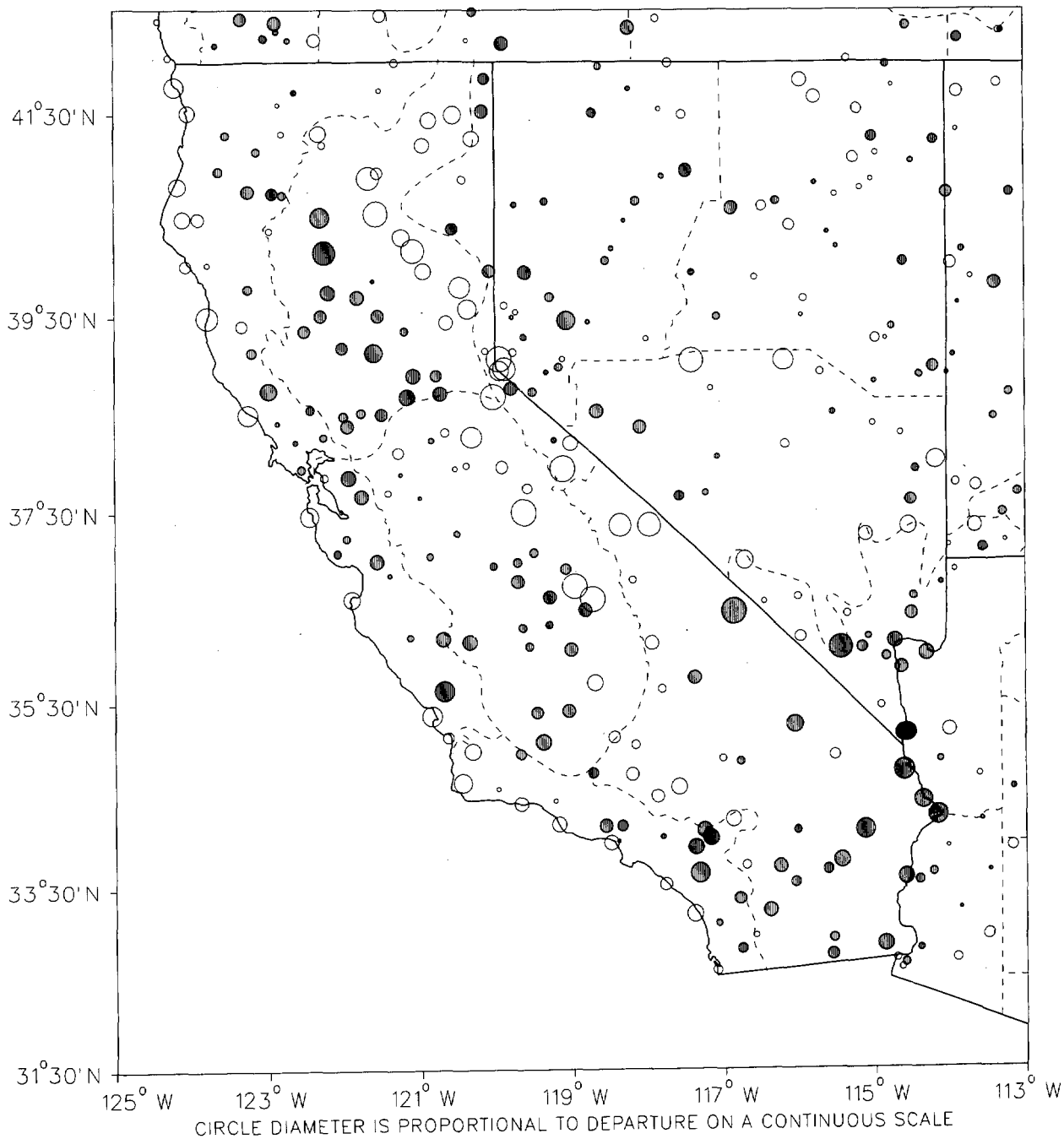
- M DENOTES INCOMPLETE DATA FOR THE MONTH
- ▽ ZERO DEPARTURE
- ○ ○ ○ ○ 5,10,20,... 50% OR MORE BELOW AVERAGE
- ● ● ● ● 10,20,40,...100% OR MORE ABOVE AVERAGE



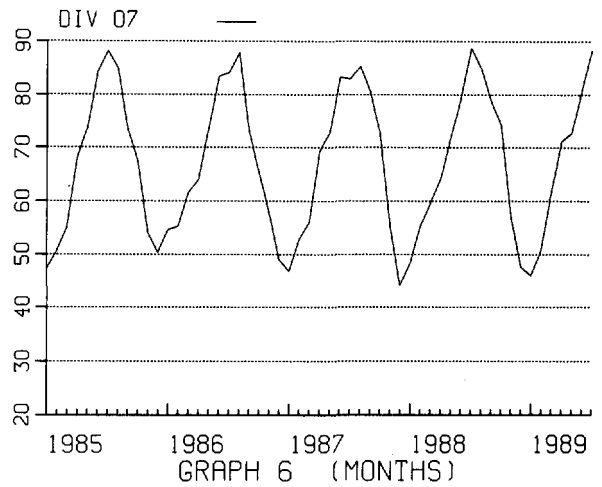
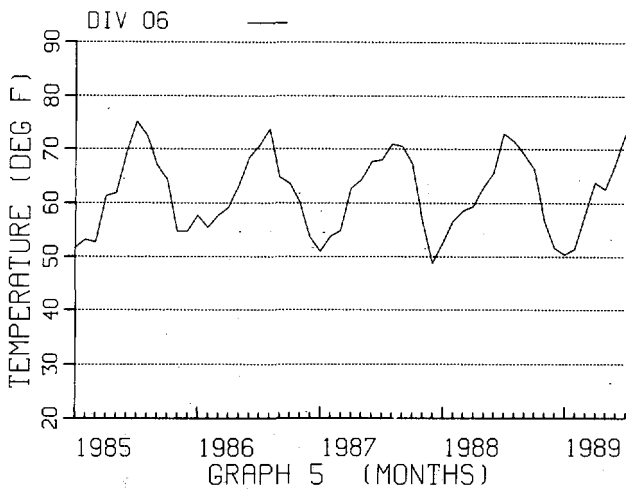
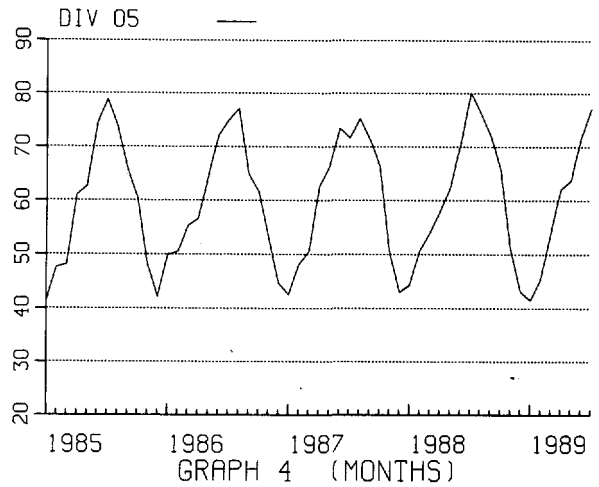
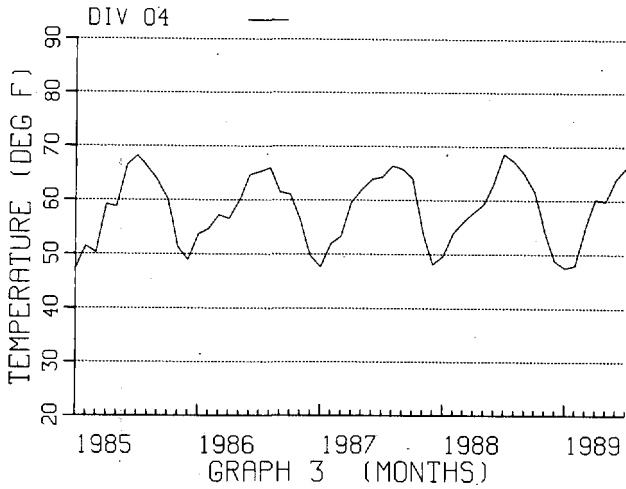
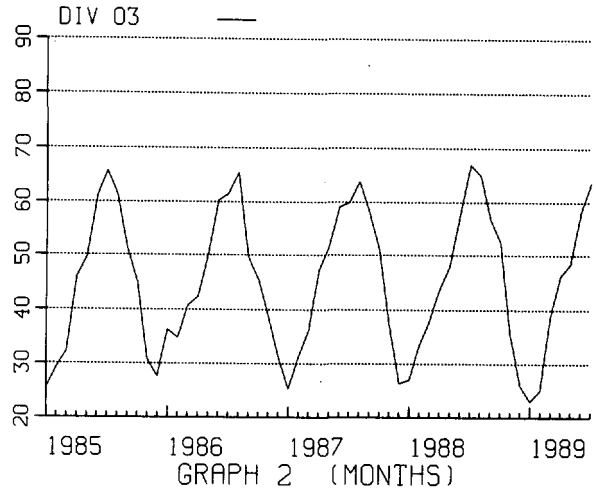
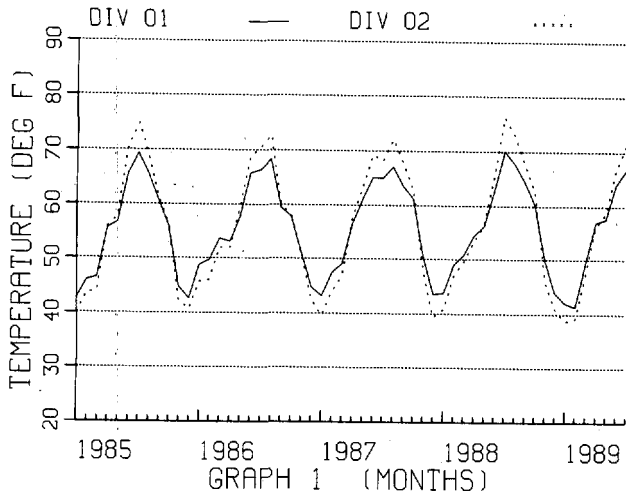
CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

MEAN MONTHLY TEMPERATURE DEPARTURES FROM  
 THE DIVISIONAL AVERAGE FOR  
 JULY 1989  
 CALIFORNIA

- M INCOMPLETE DATA FOR THE THE MONTH
- ▽ ZERO DEPARTURE
- ○ ○ 4.8...12 OR MORE DEGREES BELOW AVERAGE
- ● ● 4.8...12 OR MORE DEGREES ABOVE AVERAGE

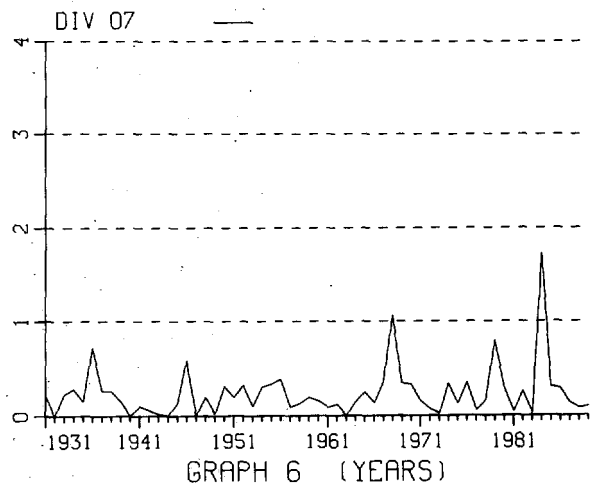
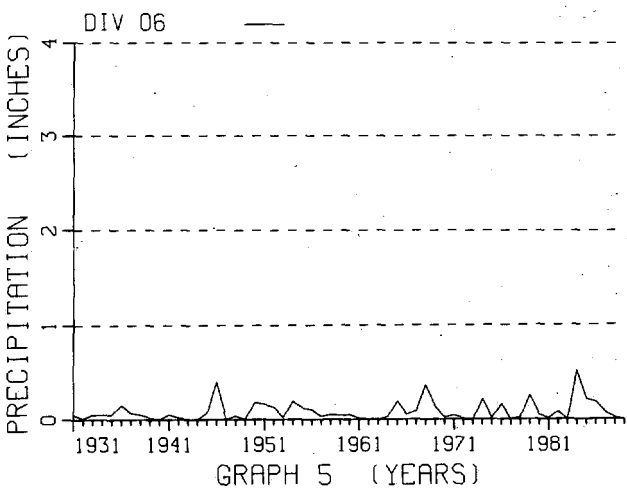
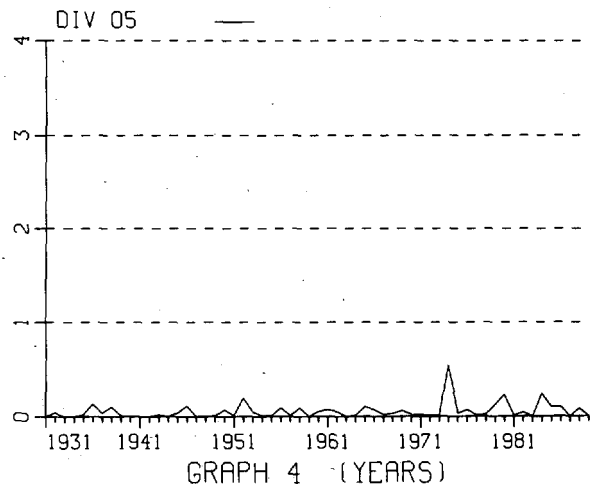
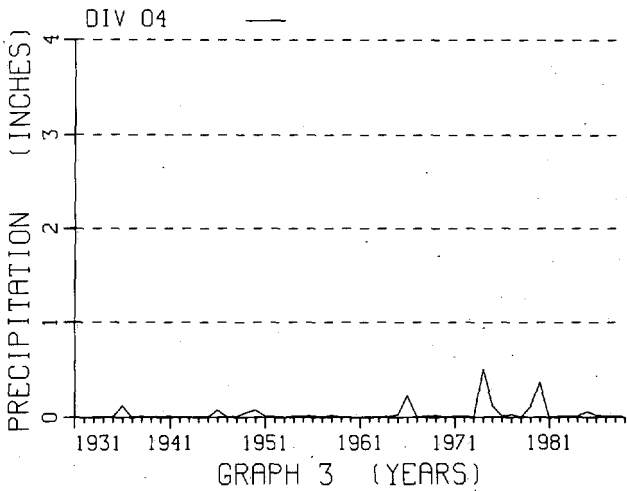
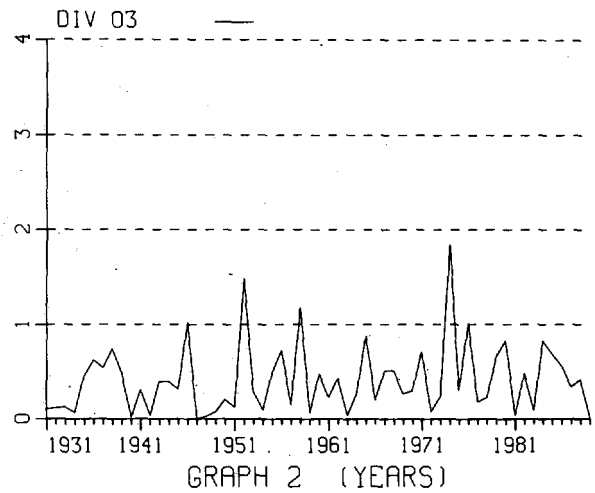
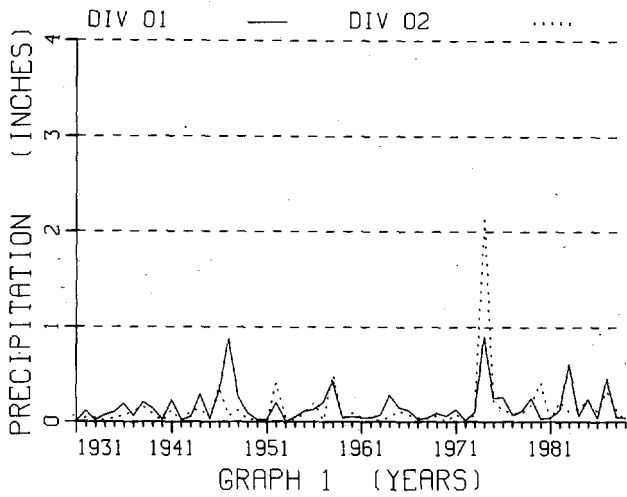


MONTHLY TEMPERATURE FOR  
THE LAST 55 MONTHS  
ENDING JULY 1989  
CALIFORNIA





MEAN MONTHLY PRECIPITATION FOR  
THE MONTH OF: JULY  
THE PERIOD OF: 1931 - 1989  
CALIFORNIA



# 04 - NORTHERN CALIFORNIA

42.0

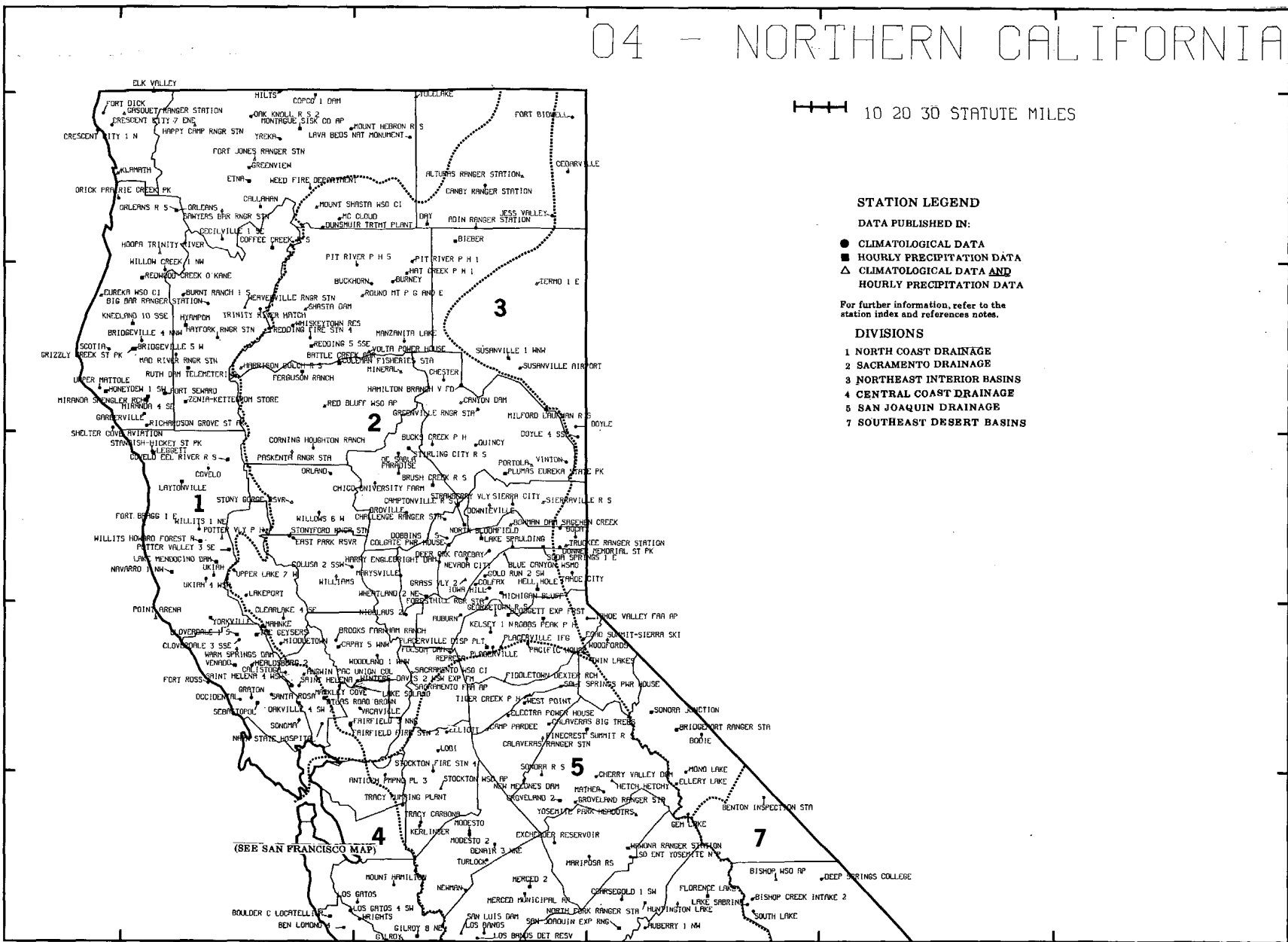
42.0

40.0

40.0

38.0

38.0



10 20 30 STATUTE MILES

### STATION LEGEND

- DATA PUBLISHED IN:
- CLIMATOLOGICAL DATA
  - HOURLY PRECIPITATION DATA
  - △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

For further information, refer to the station index and reference notes.

### DIVISIONS

- 1 NORTH COAST DRAINAGE
- 2 SACRAMENTO DRAINAGE
- 3 NORTHEAST INTERIOR BASINS
- 4 CENTRAL COAST DRAINAGE
- 5 SAN JOAQUIN DRAINAGE
- 7 SOUTHEAST DESERT BASINS

(SEE SAN FRANCISCO MAP)

-124.0

-120.0

-116.0

10 20 30 STATUTE MILES

38.0

38.0

36.0

36.0

34.0

34.0



**STATION LEGEND**

**DATA PUBLISHED IN:**

- CLIMATOLOGICAL DATA
- HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

For further information, refer to the station index and references notes.

**DIVISIONS**

- 1 NORTH COAST DRAINAGE
- 2 SACRAMENTO DRAINAGE
- 3 NORTHEAST INTERIOR BASINS
- 4 CENTRAL COAST DRAINAGE
- 5 SAN JOAQUIN DRAINAGE
- 6 SOUTH COAST DRAINAGE
- 7 SOUTHEAST DESERT BASINS

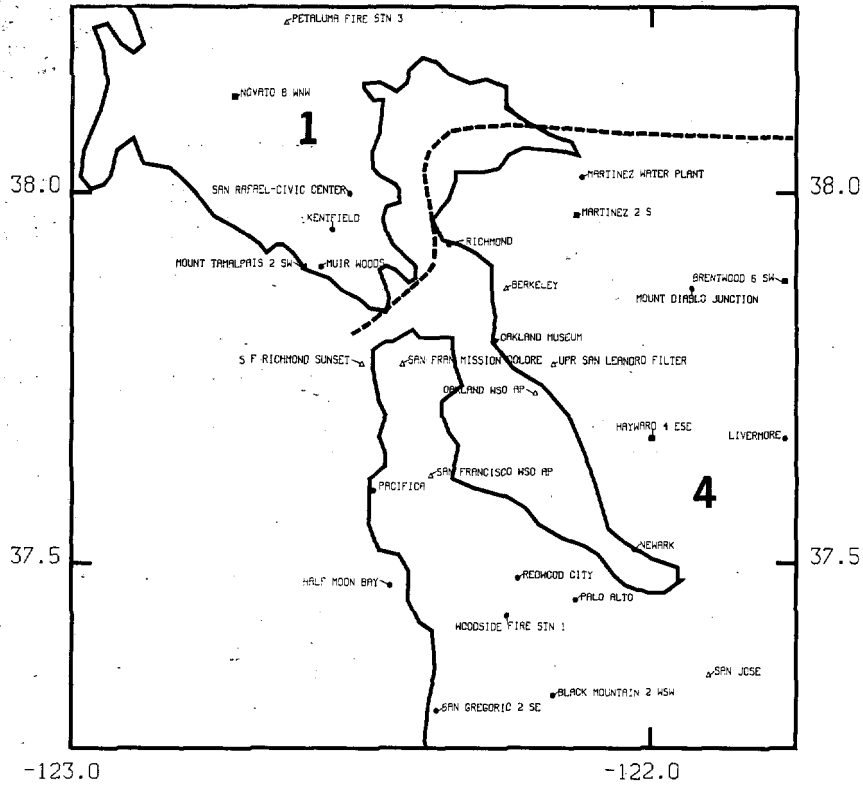
# 04 - SOUTHERN CALIFORNIA

-124.0

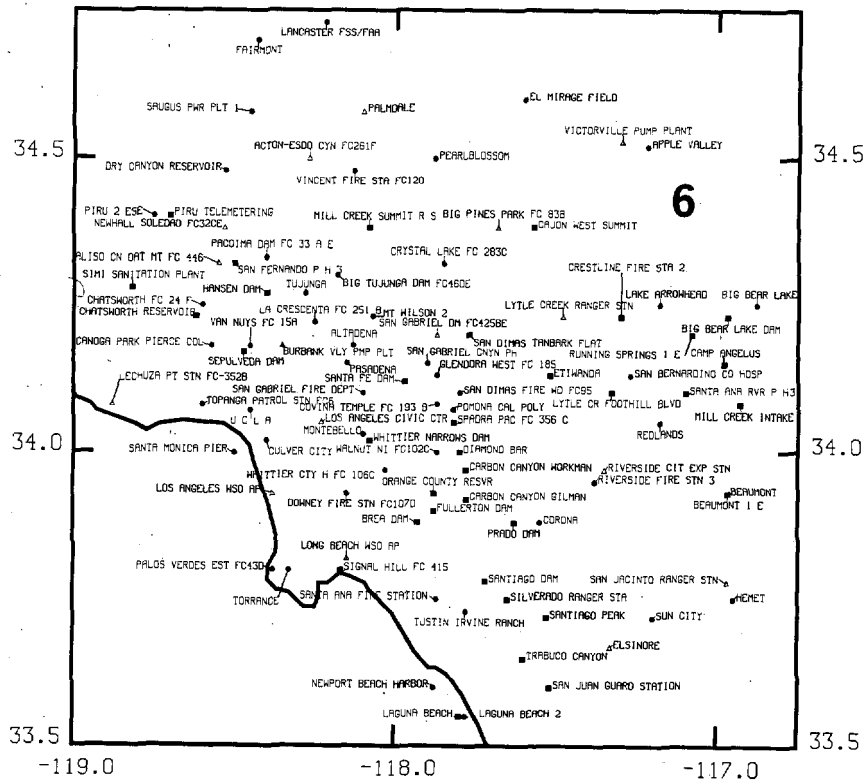
-120.0

-116.0

# SAN FRANCISCO



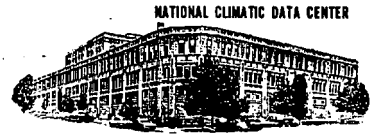
# LOS ANGELES



**MONTHLY PRECIPITATION TOTALS**

ANNUAL 1987  
NORTH CAROLINA

STATION	ANNUAL	MONTH											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NORTH CAROLINA	34.57	1.11	1.85	2.75	0.57	3.55					4.19	5.28	4.28
ASHEVILLE WSD AP	25.67	0.71	1.57	1.81	0.53	2.55				2.77	4.15	2.94	
ASHEVILLE	36.74E	1.20	2.70	2.30	0.53	2.55				3.80	4.90	4.80	
ASHFORD	-	1.70	1.30	2.60	1.26C					2.40	4.10	2.30	
BADIN	-	1.70	1.50	3.60							1.70		
B EVERETT JORDAN DAM	-	1.00	2.10										
BOOMER 5 WSH	-	0.80	1.92C										
BURLINGTON 3 NNE	48.96	1.70											
CAPE HATTERAS WSD	-	0.60											
CARTERSVILLE 8 SE	-												
CATALOCHEE	-												
CHARLOTTE WSD AP	25.91												
CLINTON 2 NE	35.31												
DALTON	-												
DOBSON	-												
EVEN	-												
ELIZABETH	-												
ELIZABETH	-												
FAYE	-												
FRANK GREENS	-												
GREENVILLE	-												
HELTON	-												
HOBOKEN	-												
LAKE LURE	-												
LAURINBURG	-												
LEXINGTON	-												
MORRISVILLE 2	-												
MOREHEAD CITY	-												
MOUNT PLEASANT	-												
WILKESBORO 12	-												
POLKTON 2 NE	-												
QUEBEC	-												
RALEIGH-DURHAM WSD	-												
ROANOKE RAPIDS	-												
ROARING GAP 1 NW	-												
SHELBY 2	-												
SNEADS FERRY 2 ENE	-												
SWANANOA 2 SSE	-												
WILKINGTON WSD AP	-												
WILSON 2 SW	-												
YADKINVILLE 6 E	-												



**HOURLY PRECIPITATION DATA**  
NORTH CAROLINA

DECEMBER 1987  
WITH ANNUAL SUPPLEMENT  
VOLUME 37 NUMBER 12

31 - NORTH CAROLINA

- A WORLD OF CLIMATIC INFORMATION FOR . . . .**
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  - \* Industry
  - \* Insurance Companies
  - \* Public Utilities
  - \* Research & Development
  - \* Energy

**STATION INDEX**

STATION	COUNTY	JAN 1987	JUN 1987	NOV 1987
NORTH CAROLINA		30 5873	30 5873	30 5873
ASHEVILLE WSD AP	ASHE	30 11473	30 11473	30 11473
ASHEVILLE	ASHE	30 11473	30 11473	30 11473
ASHFORD	ASHE	30 11473	30 11473	30 11473
BADIN	ASHE	30 11473	30 11473	30 11473
B EVERETT JORDAN DAM	ASHE	30 11473	30 11473	30 11473

**MONTHLY PRECIPITATION MAXIMA**

STATION	MAXIMA FOR MEASUREMENT PERIODS OF			
	MINUTES	15	30	45
NORTH CAROLINA	15	30	45	
ASHEVILLE WSD AP	15	30	45	
ASHEVILLE	15	30	45	
ASHFORD	15	30	45	
BADIN	15	30	45	
B EVERETT JORDAN DAM	15	30	45	

**HOURLY PRECIPITATION**

STATION	A.M. HOUR ENDING											
	1	2	3	4	5	6	7	8	9	10	11	12
NORTH CAROLINA												
ASHEVILLE WSD AP												
ASHEVILLE												
ASHFORD												
BADIN												
B EVERETT JORDAN DAM												

**HOURLY PRECIPITATION DATA**  
NORTH CAROLINA

JANUARY 1987  
VOLUME 37 NUMBER 1

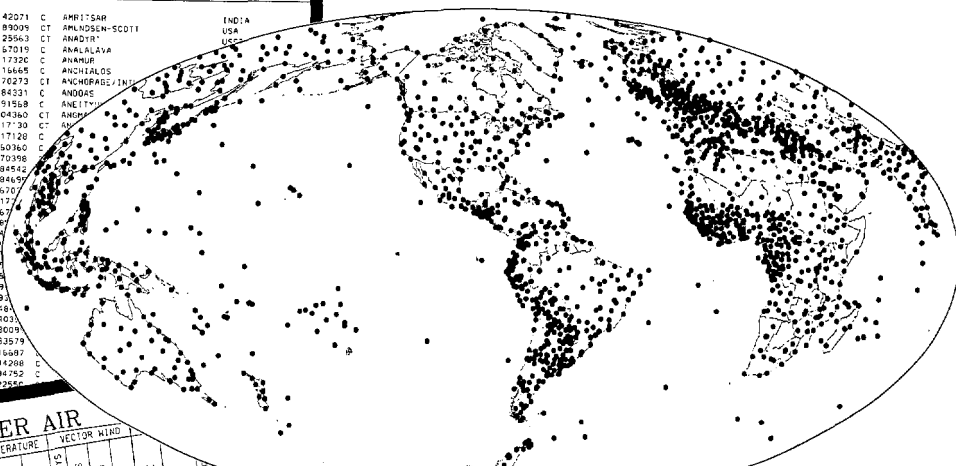
ISSN 0364-6319

**HOURLY PRECIPITATION DATA** is published monthly and presents daily, hourly, and maximum short duration data for recording rain gage stations in each state except Alaska. Also included are a published station index and a locator map for the state. In addition to the regularly published data, the December publication contains a tabulation of monthly and annual total precipitation amounts as an annual supplement.

**SHELF STOCK** of the printed publication is maintained only for the most recent three years. Earlier years are available on microfiche or paper copies reproduced from microfiche. The data are also available in digital form - on magnetic tape and diskette.

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Phone (704) 259-0682 or (704)-CLIMATE

41246	C	ISAHARI MAJIS	IRAN	42071	C	AMRITSAR	INDIA
40831	C	ABASHIRI	IRAN, ISLAMIC REP	89009	CT	ARLHOLSEN-SCOTT	USA
47409	C	ABASHIRI	JAPAN	29663	CT	ARADYR	USA
71708	C	ABBOTSFORD, B.C.	CANADA	67019	C	ARALALAYA	
64784	C	ABCHE	CHAD	17326	C	ARARUJ	
03091	C	ABERDEEN/DVICE	U.K.	16484	C	ARIZALLOS	
41712	C	ADHA	U.A.E. MOHMM	70273	CI	ANCHORPAGE/IN	
65278	CT	ADJELAN	SAUDI ARABIA	84531	C	ANDOS	
72266	C	ADILEN, TX	COLE C'VIVORE	91568	C	ANGLY	
41216	C	ABU DABI BA'EEN AIRPORT	USA	04360	CT	ANGON	
41217	CT	ABU DABI INTL AIRPORT	U. ARAB EMIRATES	17730	CT		
62640	C	ABU DABI INTL AIRPORT	U. ARAB EMIRATES	17730	CT		
62795	C	ABU NA'AMA	SUDAN	50360	C		
70850	C	ACAJULP	EL SALVADOR	70398			
78605	C	ACAPULCO, GRO.	SUDAN	84542	C		
80427	C	ACARIGUA	VENEZUELA	670			
17352	CT	ADNA	TURKEY	173			
63450	CT	ADDIS ABABA	ETHIOPIA	67			
94572	CT	ADELAIDE AIRPORT	AUSIRALIA	84			
41467	C	ADEN	YEMEN	173			
65959	C	ADEN KHORAKSAR	YEMEN	173			
60520	C	ADEN	YEMEN	173			
76479	CT	AEROP. INTL MEXICO, D.F.	MEXICO	173			
76444	CT	AEROP. INTL MEXICO, D.F.	MEXICO	173			
76394	CT	AEROP. INTL MONTERREY, N.L.	MEXICO	173			
87892	C	ACHOPARQUE	ARGENTINA	173			
17190	C	ADN	TURKEY	173			
61024	C	AGADEZ	NIGER	173			
60250	C	AGADIZ	MOROCCO	173			
61974	C	AGASSA	MOROCCO	173			
42261	C	AGRA	INDIA	173			
18672	C	AGRIIONIS AIRPORT	GREECE	173			
42447	CT	AGRIIONIS AIRPORT	GREECE	173			
60560	C	AGRIIONIS AIRPORT	GREECE	173			
61499	C	AGRIIONIS AIRPORT	GREECE	173			
47751	CT	AGRIIONIS AIRPORT	GREECE	173			
21168	C	AGRIIONIS AIRPORT	GREECE	173			
7194	C	AGRIIONIS AIRPORT	GREECE	173			
47892	CT	AGRIIONIS AIRPORT	GREECE	173			
41237	C	AGRIIONIS AIRPORT	GREECE	173			



NATIONAL CLIMATIC DATA CENTER



ASIA-JAPAN													
STATION	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL
3302N 13947E	08	2	0	0	0	0	0	0	0	0	0	0	0

EUROPE-NORWAY														
STATION	LATITUDE	LONGITUDE	ELEVATION	PRESSURE	TEMPERATURE	VAPOR PRESSURE	PRECIPITATION	SUNSHINE	JANUARY 1988					
									MEAN	MAX	MIN	MEAN	MAX	MIN
65014	66	17	327	965.0	1006.2	1006.2	0	100	0	0	0	0	0	

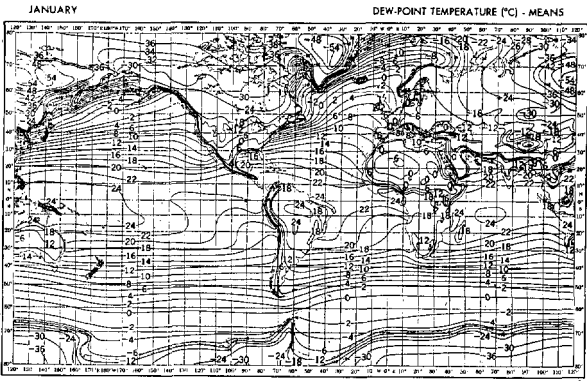
JANUARY 1988  
VOL 41 NO. 1

ISSN 0027-0296



MONTHLY CLIMATIC DATA FOR THE WORLD

PREPARED IN COOPERATION WITH THE WORLD METEOROLOGICAL ORGANIZATION



MONTHLY CLIMATIC DATA for the WORLD (MCDW) is a publication of monthly summaries of climatic data from around the world. Data are prepared by Members of the World Meteorological Organization for selected stations and exchanged via the Global Telecommunications System in coded format.

Tables of both Surface and Upper Air data are presented. Surface data tables contain elements of pressure, temperature, vapor pressure, precipitation, and sunshine. Upper Air tables contain geopotential heights, temperatures, dew point depressions, and vector winds for ten selected pressure levels between the surface and thirty millibars (hectopascals). A Station List is also provided which, in the January and July editions, contains all stations authorized for publication. In other months the list contains only those stations from which data no more than two months old have been recently received.

Currently, world maps of long term mean temperatures, dew points, and sea level pressures are included on the cover of the MCDW. The maps are generally representative of conditions during the 1950's to mid-1970's, however some data may be from as early as the 1850's.

SHELF STOCK of the printed publication is maintained only for the most recent three years. Earlier years are available on microfiche or paper copies reproduced from microfiche. The data are also available in digital form on magnetic tape and diskette.

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Kenneth D. Nollen  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

noaa

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HOURLY  
PRECIPITATION DATA  
ARIZONA

DECEMBER  
WITH ANNUAL SUPPLEMENT

ISSN 0364-0084

CLIMATOLOGICAL DATA  
ANNUAL SUMMARY  
ARIZONA

ISSN 0145-0387

NUMBER 13

HOURLY  
PRECIPITATION DATA  
ARIZONA

VOLUME 35 NUMBER

ISSN 0364-0084

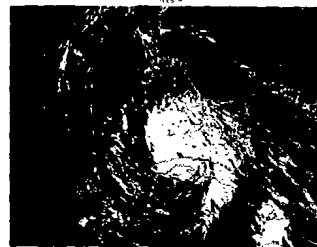
CLIMATOLOGICAL DATA  
ARIZONA

ISSN 0145-0387

LOCAL  
CLIMATOLOGICAL DATA  
Monthly Summary

STATION	DATE	TEMPERATURE (°F)	PRECIPITATION (IN)	RELATIVE HUMIDITY (%)	WIND DIRECTION	WIND VELOCITY (MPH)	SEA LEVEL PRESSURE (IN)	WIND CHILL (°F)	HEAT INDEX (°F)	WIND COLD INDEX (°F)	WIND WARM INDEX (°F)
TUCSON	JAN 1988	55.0	0.00	65	000	10	30.0	40	70	30	60
TUCSON	FEB 1988	58.0	0.00	60	000	10	30.0	45	75	30	65
TUCSON	MAR 1988	62.0	0.00	55	000	10	30.0	50	80	30	70
TUCSON	APR 1988	68.0	0.00	50	000	10	30.0	55	85	30	75
TUCSON	MAY 1988	75.0	0.00	45	000	10	30.0	60	90	30	80
TUCSON	JUN 1988	82.0	0.00	40	000	10	30.0	65	95	30	85
TUCSON	JUL 1988	88.0	0.00	35	000	10	30.0	70	100	30	90
TUCSON	AUG 1988	92.0	0.00	30	000	10	30.0	75	105	30	95
TUCSON	SEP 1988	88.0	0.00	35	000	10	30.0	70	100	30	90
TUCSON	OCT 1988	82.0	0.00	40	000	10	30.0	65	95	30	85
TUCSON	NOV 1988	75.0	0.00	45	000	10	30.0	60	90	30	80
TUCSON	DEC 1988	68.0	0.00	50	000	10	30.0	55	85	30	75

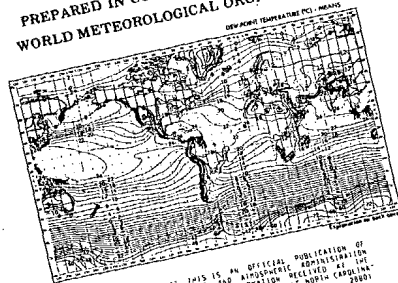
STORM DATA



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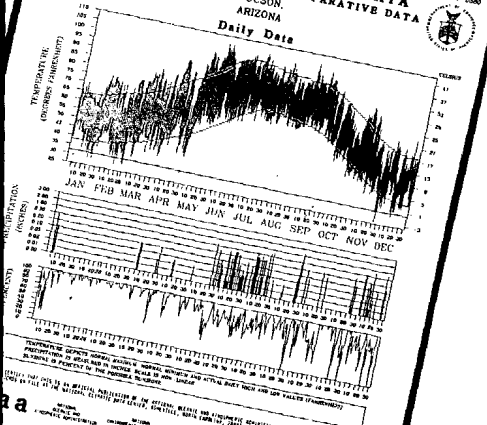
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DATA FOR THE WORLD  
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LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA  
TUCSON  
ARIZONA  
Daily Data



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CD

VALIDATED BY:

Ted Burlew  
Betty Edstrom  
Bruce Emory  
Joyce Morgan  
Betty Shuford

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