

...JANUARY 2013 REGIONAL CLIMATE SUMMARY...

SUMMARY FOR THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA...

...A RECORD DRY JANUARY WITH MANY COLD NIGHTS...

JANUARY 2013 WAS ONE OF THE DRIEST JANUARYS ON RECORD ACROSS THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA. FOR MUCH OF THE MONTH A RIDGE OF HIGH PRESSURE WAS LOCATED EITHER ALONG THE WEST COAST OR JUST OFFSHORE OVER THE EASTERN PACIFIC. THIS RIDGE PREVENTED PACIFIC WEATHER SYSTEMS FROM REACHING CALIFORNIA. THOSE FEW WEATHER SYSTEMS THAT DID MANAGE TO BREAK THROUGH TO THE WEST COAST WERE WEAK AND PRODUCED ONLY LIGHT AMOUNTS OF RAIN. DURING THOSE TIMES WHEN THE RIDGE RETREATED OFFSHORE...THE RESULT WAS A COLD NORTHERLY FLOW ACROSS CALIFORNIA AND SEVERAL NIGHTS OF WIDESPREAD FREEZING TEMPERATURES IN THE VALLEYS.

THE FIRST FOUR DAYS OF JANUARY WERE COOL AND DRY WITH OVERNIGHT LOWS AT OR BELOW FREEZING IN THE VALLEYS. BUT COLDER WEATHER WAS TO COME LATER IN THE MONTH.

A WEAK WEATHER SYSTEM BROUGHT MOSTLY LIGHT AMOUNTS OF RAIN TO THE REGION ON THE FIRST WEEKEND OF THE MONTH...THE 5TH AND 6TH. MOST OF THE RAIN FELL ON SATURDAY NIGHT AS A COLD FRONT MOVED THROUGH THE AREA. ISOLATED THUNDERSTORMS DEVELOPED ALONG THE FRONT OFF THE SAN MATEO COUNTY COAST THAT NIGHT. THE SYSTEM STRENGTHENED AS IT MOVED INTO THE SOUTHERN PART OF THE AREA AND SO RAINFALL AMOUNTS WERE GREATEST FROM THE SANTA CRUZ MOUNTAINS SOUTHWARD. RAIN TOTALS FOR MOST AREAS WERE LESS THAN A HALF INCH...BUT NEARLY AN INCH FELL AT BEN LOMOND IN THE SANTA CRUZ MOUNTAINS AND AS MUCH AS 2 INCHES FELL NEAR THE BIG SUR COAST IN MONTEREY COUNTY.

ANOTHER WEAK SYSTEM MOVED THROUGH NORTHERN AND CENTRAL CALIFORNIA A FEW DAYS LATER...LATE ON WEDNESDAY THE 9TH. BUT THIS ONE WAS MUCH DRIER THAN THE FIRST AND ONLY MANAGED TO PRODUCE A FEW HUNDREDTHS OF RAINFALL THAT AFTERNOON AND EVENING. AFTER PASSING THROUGH CALIFORNIA...THIS SYSTEM CARVED OUT A DEEP UPPER TROUGH OVER THE WESTERN UNITED STATES. AT THE SAME TIME...THE UPPER RIDGE OVER THE EASTERN PACIFIC AMPLIFIED OFFSHORE. THE RESULTING NORTHERLY FLOW BETWEEN THE RIDGE OFFSHORE AND THE TROUGH TO OUR EAST BROUGHT A FRIGID AIRMASS FROM WESTERN CANADA SOUTH INTO CALIFORNIA. THE INITIAL PULSE OF COLD AIR ARRIVED ON THURSDAY THE 10TH...BUT A COLDER AND DRIER AIRMASS SWEEPED IN DURING THE WEEKEND OF THE 12TH AND 13TH. BY THAT SUNDAY MORNING TEMPERATURES HAD FALLEN INTO THE LOWER TO MID 20S IN THE NORTH BAY VALLEYS. SEVERAL MORE COLD NIGHTS FOLLOWED WITH WIDESPREAD FREEZING TEMPERATURES IN THE VALLEYS AND FROST NEAR THE COAST. FOR PORTIONS OF THE AREA THIS MID-JANUARY COLD SNAP WAS THE COLDEST FIVE TO SEVEN DAY PERIOD SINCE AN EVEN COLDER EVENT IN MID-JANUARY OF 2007. ALTHOUGH COLD CONDITIONS PERSISTED FOR SEVERAL DAYS...ONLY ONE DAILY LOW TEMPERATURE RECORD WAS SET (AT SAN JOSE ON THE MORNING OF THE 13TH).

THE RIDGE OVER THE EASTERN PACIFIC GRADUALLY EDGED EASTWARD OVER CALIFORNIA AND BY THURSDAY THE 17TH DAYTIME TEMPERATURES WARMED

ABOVE NORMAL FOR THE FIRST TIME ALL MONTH. HIGH TEMPERATURES THEN REMAINED ABOVE NORMAL FOR THE NEXT FOUR DAYS AS THE RIDGE HELD FIRM ALONG THE WEST COAST. BY SUNDAY THE 20TH HIGHS HAD WARMED INTO THE MID AND UPPER 70S ACROSS PORTIONS OF MONTEREY COUNTY. EVEN WITH THE WARMER DAYTIME TEMPERATURES...NIGHTS REMAINED VERY COOL...ESPECIALLY IN THE VALLEYS...DUE TO CLEAR SKIES AND A DRY AIRMASS OVER THE REGION.

A WEAK AND SLOW MOVING SYSTEM BROUGHT LIGHT AMOUNTS OF RAIN TO THE REGION ON THE 23RD AND 24TH. RAIN TOTALS WERE LESS THAN A HALF INCH. THIS WAS TO BE THE LAST RAIN EVENT OF THE MONTH.

RAINFALL FROM JANUARY'S THREE LIGHT PRECIPITATION EVENTS WASN'T EVEN ENOUGH TO ADD UP TO AN INCH AT MOST CLIMATE STATIONS. RAIN TOTALS FOR THE MONTH WERE AS LITTLE AS 5 PERCENT OF NORMAL AT SOME OF THE SAN FRANCISCO BAY AREA CLIMATE STATIONS AND LESS THAN 20 PERCENT OF NORMAL ACROSS MOST OF THE SAN FRANCISCO BAY AREA. CLIMATE STATIONS FARTHER SOUTH IN MONTEREY AND SAN BENITO COUNTIES FARED SOMEWHAT BETTER...PICKING UP BETWEEN 20 AND 40 PERCENT OF THEIR JANUARY NORMAL RAINFALL.

JANUARY 2013 WAS THE DRIEST JANUARY ON RECORD AT THE SAN FRANCISCO AIRPORT WHERE ONLY 0.20 INCHES OF RAIN FELL DURING THE MONTH. RAINFALL RECORDS AT SFO DATE BACK TO 1946.

JANUARY 2013 WAS AMONG THE TOP TEN DRIEST JANUARYS AT SEVERAL CLIMATE STATIONS...INCLUDING:

LOCATION	JANUARY 2013 RAINFALL (IN)	RANK	YEARS OF RECORD
HALF MOON BAY	0.39	2ND DRIEST	73
NEWARK	0.27	2ND DRIEST	71
SAN FRANCISCO	0.49	3RD DRIEST	164
REDWOOD CITY	0.30	3RD DRIEST	90
OAKLAND AIRPORT	0.29	3RD DRIEST	49
OAKLAND MUSEUM	0.39	3RD DRIEST	43
MONTEREY	0.87	4TH DRIEST	78
OCCIDENTAL	1.24	4TH DRIEST	70
MOUNT DIABLO JNCTN	0.76	4TH DRIEST	61
LOS GATOS	0.66	5TH DRIEST	120
KENTFIELD	0.99	5TH DRIEST	111
PETALUMA AIRPORT	0.60	5TH DRIEST	100
MARTINEZ	0.53	5TH DRIEST	85
CALISTOGA	1.27	5TH DRIEST	84
SANTA CRUZ	0.90	6TH DRIEST	121
BEN LOMOND	1.23	6TH DRIEST	77
SONOMA	0.86	6TH DRIEST	73
ANGWIN	1.22	6TH DRIEST	70
RICHMOND	0.64	6TH DRIEST	63
WATSONVILLE	0.72	8TH DRIEST	100
CLOVERDALE	1.30	8TH DRIEST	57
SALINAS	0.95	9TH DRIEST	55
SAN JOSE	0.69	10TH DRIEST	100

THE CURRENT RAINY SEASON HAD GOTTEN OFF TO A PROMISING START...WITH WETTER-THAN-NORMAL CONDITIONS IN NOVEMBER AND DECEMBER. AS OF DECEMBER 31ST...SEASON-TO-DATE RAINFALL TOTALS RANGED FROM 140 TO 160 PERCENT OF NORMAL. BUT AFTER OUR DRY JANUARY ...SEASON-TO-DATE TOTALS HAD DROPPED BACK TO ONLY ABOUT 100 PERCENT OF NORMAL.

LOCATION	YEAR-TO-DATE	YEAR-TO-DATE
	TOTALS ON	TOTALS ON
	12/31/12:	1/31/13:
	INCHES/PON	INCHES/PON
SANTA ROSA AIRPORT	22.41/158%	23.34/110%
SAN FRANCISCO	13.10/144%	13.59/100%
SFO AIRPORT	11.00/145%	11.20/95%
OAKLAND AIRPORT	10.99/145%	11.28/97%
MOFFETT FIELD	7.77/154%	8.07/103%
SAN JOSE AIRPORT	7.19/144%	7.88/99%
SALINAS AIRPORT	6.64/162%	7.68/114%

AVERAGE HIGH TEMPERATURES FOR JANUARY 2013 WERE RELATIVELY CLOSE TO NORMAL. COOL DAYS DURING THE FIRST HALF OF THE MONTH WERE OFFSET BY SEVERAL WARM DAYS DURING THE SECOND HALF OF THE MONTH. MANY CLEAR AND COLD NIGHTS RESULTED IN AVERAGE LOW TEMPERATURES THAT WERE BELOW NORMAL AT NEARLY EVERY CLIMATE STATION. AVERAGE LOWS WERE MUCH BELOW NORMAL AT INLAND VALLEY LOCATIONS... PARTICULARLY IN SOME OF THE NORTH BAY VALLEYS WHERE MONTHLY MINIMUM TEMPERATURES WERE AS MUCH AS 5 DEGREES OR MORE BELOW THE 30-YEAR AVERAGE. AVERAGE LOW TEMPERATURES FOR JANUARY 2013 WERE AT OR BELOW FREEZING AT CALISTOGA...NAPA AIRPORT...SONOMA COUNTY AIRPORT...AND PINNACLES NATIONAL PARK.

...JANUARY REGIONAL TEMPERATURE SUMMARY...

LOCATION	DEPARTURE			DEPARTURE		
	AVG HIGH	NORMAL HIGH	FROM NORMAL	AVG LOW	NORMAL LOW	FROM NORMAL
NORTH BAY...						
ANGWIN	54.0	53.5	0.5	36.8	39.0	-2.2
CALISTOGA	61.5	59.5	2.0	29.9	37.3	-7.4
CLOVERDALE	61.8	58.2	3.6	33.8	39.1	-5.3
KENTFIELD	56.4	55.0	1.4	38.6	41.3	-2.7
NAPA	59.4	57.3	2.1	32.6	39.4	-6.8
NAPA AIRPORT	57.5	55.1	2.4	32.0	37.0	-5.0
OCCIDENTAL	54.8	55.1	-0.3	38.3	41.2	-2.9
PETALUMA AIRPORT	57.1	56.9	0.2	33.0	39.2	-6.2
SONOMA COUNTY AP	58.1	56.7	1.4	31.6	36.6	-5.0
SONOMA	57.3	56.3	1.0	33.5	37.8	-4.3

SAN FRANCISCO PENINSULA...

HALF MOON BAY	58.7	59.0	-0.3	42.8	41.5	1.3
REDWOOD CITY	59.1	58.0	1.1	36.8	40.4	-3.6
SAN FRANCISCO						
AIRPORT	55.6	56.3	-0.7	41.7	44.2	-2.5
SAN FRANCISCO						
DOWNTOWN	56.9	56.9	0.0	44.7	45.7	-1.0

EAST BAY...

CONCORD	56.5	56.8	-0.3	36.3	41.0	-4.7
CONCORD AIRPORT	55.5	55.9	-0.4	33.6	39.7	-6.1
FREMONT	57.7	58.1	-0.4	36.9	42.2	-5.3
HAYWARD AIRPORT	56.7	57.2	-0.5	38.1	42.5	-4.4
LIVERMORE	54.9	56.1	-1.2	33.9	39.0	-5.1
LIVERMORE AP	55.7	56.0	-0.3	33.8	37.4	-3.6
MARTINEZ	55.5	55.2	0.3	33.5	35.6	-2.1
MOUNT DIABLO						
JUNCTION	53.2	55.5	-2.3	39.6	40.0	-0.4
NEWARK	56.3	57.6	-1.3	39.9	42.1	-2.2
OAKLAND	60.5	58.1	2.4	41.2	44.3	-3.1
OAKLAND AIRPORT	57.6	56.9	0.7	38.6	41.7	-3.1
RICHMOND	58.7	57.4	1.3	41.9	43.0	-1.1

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	M	61.5	M	33.4	37.0	-3.6
GILROY	60.2	60.4	-0.2	35.2	38.0	-2.8
LOS GATOS	56.8	57.7	-0.9	34.1	38.9	-4.8
MOFFETT FIELD	57.7	58.7	-1.0	38.3	42.9	-4.6
MOUNT HAMILTON	49.3	48.7	0.6	37.6	38.4	-0.8
SAN JOSE	58.1	58.1	0.0	37.1	42.0	-4.9
SANTA CRUZ	61.9	62.6	-0.7	36.5	41.3	-4.8
WATSONVILLE	62.2	60.9	1.3	36.7	39.4	-2.7
WATSONVILLE AP	60.8	61.3	-0.5	36.5	39.5	-3.0

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	62.9	61.9	1.0	37.3	39.2	-1.9
HOLLISTER	57.9	60.1	-2.2	34.9	38.2	-3.3
MONTEREY	58.8	58.3	0.5	43.2	43.7	-0.5
MONTEREY AIRPORT	59.4	59.5	-0.1	40.0	42.5	-2.5
PINNACLES NP	60.7	61.7	-1.0	30.5	32.8	-2.3
SALINAS	64.2	62.3	1.9	37.5	39.5	-2.0
SALINAS AIRPORT	61.1	61.3	-0.2	38.5	41.3	-2.8

...JANUARY REGIONAL PRECIPITATION SUMMARY...

LOCATION	NORMAL		
	JAN TOTAL	JAN PRECIP	PERCENT OF NORMAL

NORTH BAY...

ANGWIN	1.22	7.76	16
CALISTOGA	1.27	8.16	16
CLOVERDALE	1.30	8.43	15
KENTFIELD	0.99	9.13	11
NAPA AIRPORT	0.34	4.38	8
OCCIDENTAL	1.24	11.11	11
PETALUMA AIRPORT	0.60	4.93	12
SONOMA COUNTY AP	0.93	7.05	13
SONOMA	0.86	6.02	14

SAN FRANCISCO PENINSULA...

HALF MOON BAY	0.39	5.53	7
REDWOOD CITY	0.30	4.02	7
SAN FRANCISCO AIRPORT	0.20	4.19	5
SAN FRANCISCO DOWNTOWN	0.49	4.50	11

EAST BAY...

CONCORD	0.45	3.54	13
CONCORD AIRPORT	0.40	3.27	12
FREMONT	0.42	3.07	14
HAYWARD AIRPORT	0.19	3.30	6
LIVERMORE	1.07	2.87	37
LIVERMORE AIRPORT	0.71	3.01	24
MARTINEZ	0.53	4.01	13
MOUNT DIABLO JUNCTION	0.76	4.77	16
NEWARK	0.27	2.95	9
OAKLAND	0.39	4.71	8
OAKLAND AIRPORT	0.29	3.99	7
RICHMOND	0.64	4.83	13

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	1.23	10.06	12
LOS GATOS	0.66	4.94	13
MOFFETT FIELD	0.30	2.75	11
MOUNT HAMILTON	1.15	4.68	25
SAN JOSE	0.69	3.07	22
SANTA CRUZ	0.90	6.28	14
WATSONVILLE	0.72	4.46	16
WATSONVILLE AP	0.68	3.81	18

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	1.46	3.82	38
MONTEREY	0.87	4.40	20
MONTEREY AIRPORT	0.81	3.17	26
PINNACLES NAT MON	0.81	3.48	23
SALINAS	0.95	3.09	31

...DAILY TEMPERATURE RECORDS FOR JANUARY 2013...

		RECORD	
		MINIMUM	PREVIOUS
		TEMP	RECORD
1/13	SAN JOSE	26	27 IN 1963

...MONTHLY RANKS FOR DOWNTOWN SAN FRANCISCO...

AVERAGE HIGH TEMPERATURE....56.9....54TH WARMEST OUT OF 139 YEARS
 AVERAGE LOW TEMPERATURE.....44.7....49TH COOLEST OUT OF 139 YEARS
 PRECIPITATION..... 0.49 IN....3RD DRIEST OUT OF 164 YEARS

...MONTHLY EXTREMES FOR SELECT LOCATIONS...

LOCATION	WARMEST DAY(S)	COOLEST DAY(S)	WETTEST DAY(S)
SANTA ROSA AIRPORT	1/30 68 DEG	1/13 23 DEG	1/5 0.44 IN
SAN FRANCISCO	1/18 1/20 1/25 1/30 64 DEG	1/13 39 DEG	1/5 0.25 IN
LIVERMORE AIRPORT	1/25 66 DEG	1/13 25 DEG	1/24 0.30 IN
SAN JOSE	1/30 1/31 66 DEG	1/13 26 DEG	1/24 0.37 IN
SALINAS AIRPORT	1/20 1/21 73 DEG	1/14 28 DEG	1/5 0.54 IN

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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