

...OCTOBER 2012 REGIONAL CLIMATE SUMMARY...

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

A COUPLE OF HEAT WAVES DURING OCTOBER PRODUCED SEVERAL DAILY HIGH TEMPERATURE RECORDS. BUT AVERAGE TEMPERATURES FOR THE MONTH DID NOT STRAY TOO FAR FROM THE 30-YEAR AVERAGE AT MOST NATIONAL WEATHER SERVICE CLIMATE STATIONS. A FEW EARLY SEASON WEATHER SYSTEMS DROPPED LIGHT TO MODERATE AMOUNTS OF RAIN ACROSS THE REGION...AND EVEN PRODUCED A SEVERE THUNDERSTORM. PRECIPITATION TOTALS WERE QUITE VARIED...RANGING FROM ONLY ABOUT ONE-THIRD OF NORMAL AT A FEW LOCATIONS TO MORE THAN 150 PERCENT OF NORMAL ALONG PORTIONS OF THE SAN FRANCISCO PENINSULA.

THE MONTH STARTED OFF HOT AS A STRONG RIDGE OF HIGH PRESSURE DEVELOPED ALONG THE WEST COAST AND WINDS TURNED OFFSHORE. THE WARMEST DAY OF THE MONTH WAS TUESDAY THE 2ND WHEN DOWNTOWN SAN FRANCISCO RECORDED A HIGH TEMPERATURE OF 94 DEGREES AND MOST INLAND AREAS TOPPED OUT AROUND 100. FOUR DAILY HIGH TEMPERATURE RECORDS WERE SET ON THE 2ND. MUCH COOLER WEATHER DEVELOPED ON WEDNESDAY THE 3RD WHEN WINDS TURNED ONSHORE. TEMPERATURES REMAINED VERY WARM ON TUESDAY NIGHT AND THEN COOLED RAPIDLY DURING THE DAY WEDNESDAY ONCE THE SEABREEZE DEVELOPED. FOR EXAMPLE...THE TEMPERATURE IN SAN FRANCISCO AT MIDNIGHT ON TUESDAY NIGHT WAS 74 DEGREES...WHICH ULTIMATELY TURNED OUT TO BE THE CITY'S HIGH TEMPERATURE FOR WEDNESDAY THE 3RD.

FOUR MORE DAILY HIGH TEMPERATURE RECORDS WERE SET OR TIED DURING OCTOBER'S SECOND HEAT EVENT ON THURSDAY THE 18TH. THIS SECOND HEAT EVENT WASN'T AS IMPRESSIVE AS THE ONE ON THE 2ND; HIGH TEMPERATURES WERE ONLY IN THE 80S AND LOWER 90S IN MOST LOCATIONS. EVEN SO...BLUSTERY OFFSHORE WINDS AND VERY LOW RELATIVE HUMIDITY VALUES CREATED CRITICAL FIRE WEATHER CONDITIONS AND RESULTED IN ISSUANCE OF RED FLAG WARNINGS IN THE NORTH AND EAST BAY HILLS FROM LATE ON THE 17TH THROUGH THE 18TH.

THE TWO OCTOBER HEAT EVENTS WERE OFFSET BY A COUPLE OF COOL SHOWERY PERIODS DURING THE MONTH. CONSEQUENTLY...OCTOBER'S AVERAGE HIGH TEMPERATURES WERE GENERALLY CLOSE TO NORMAL. LOW TEMPERATURES WERE SLIGHTLY WARMER THAN NORMAL. WARMER NIGHTS RESULTED IN AVERAGE MONTHLY TEMPERATURES THAT WERE A BIT ON THE WARM SIDE OF NORMAL.

THREE EARLY SEASON WEATHER SYSTEMS BROUGHT PRECIPITATION TO THE REGION DURING THE MONTH OF OCTOBER. THE FIRST PRECIPITATION EVENT OCCURRED FROM THE 9TH THROUGH THE 12TH AS AN UPPER LOW MOVED SLOWLY SOUTH JUST OFF THE CALIFORNIA COAST AND THEN FINALLY SWUNG INLAND OVER SOUTHERN CALIFORNIA. THIS UPPER LOW TRIGGERED WIDELY SCATTERED SHOWERS AND ISOLATED THUNDERSTORMS. RAINFALL AMOUNTS WERE GENERALLY LIGHT DUE TO THE SPOTTY NATURE OF THE PRECIPITATION. HOWEVER...THUNDERSTORMS THAT DEVELOPED OVER THE SOUTHERN SANTA CLARA COUNTY ON WEDNESDAY AFTERNOON OCTOBER 10 PRODUCED LOCAL BRIEF HEAVY RAIN AND HAIL. THERE WERE SEVERAL REPORTS OF HAIL AROUND 1/4 INCH IN DIAMETER FROM LOS GATOS SOUTH THROUGH THE SANTA CLARA

VALLEY. THE LARGEST HAIL FELL IN GILROY AT APPROXIMATELY 3:40 THAT AFTERNOON. HAILSTONES AS LARGE AS 1 INCH IN DIAMETER WERE OBSERVED IN GILROY...PROMPTING ISSUANCE OF A SEVERE THUNDERSTORM WARNING FOR PORTIONS OF SANTA CLARA AND SANTA CRUZ COUNTIES. NEARLY THREE-QUARTERS OF AN INCH OF RAIN FELL IN PORTIONS OF GILROY ON THE 10TH...FAR EXCEEDING RAIN TOTALS AT ANY OTHER LOCATION THAT DAY.

THE SECOND PRECIPITATION EVENT DURING OCTOBER OCCURRED FROM THE 22ND THROUGH THE 25TH AS A BROAD UPPER TROUGH ORIGINATING IN THE GULF OF ALASKA SLOWLY DEEPENED ALONG THE WEST COAST. MOST PRECIPITATION WITH THIS WEATHER SYSTEM OCCURRED DURING THE MORNING OF MONDAY OCTOBER 22 AS A STRONG COLD FRONT SWEEPED THROUGH THE AREA. THE WEATHER REMAINED VERY ACTIVE THROUGH THE AFTERNOON AND EVENING OF THE 22ND. THUNDERSTORMS THAT FORMED BEHIND THE FRONT THAT AFTERNOON PRODUCED AT LEAST FOUR TORNADOES IN THE SACRAMENTO VALLEY AND ADJOINING SIERRA NEVADA FOOTHILLS. WEATHER IN THE SAN FRANCISCO BAY AREA WAS NOT NEARLY AS SEVERE THAT DAY...BUT A LINE OF POST-FRONTAL SHOWERS DID ACT TO ENHANCE THE DRAMA OF A DECISIVE BASEBALL GAME. THE LINE OF SHOWERS FORMED JUST NORTH OF SAN FRANCISCO EARLY ON THE EVENING OF THE 22ND AS THE SAN FRANCISCO GIANTS AND SAINT LOUIS CARDINALS PLAYED THE SEVENTH GAME OF THE NATIONAL LEAGUE CHAMPIONSHIP SERIES AT AT&T PARK. THE SHOWERS REMAINED JUST TO THE NORTH OF THE BALLPARK UNTIL THE LATE INNINGS. A DOWNPOUR THEN DEVELOPED IN THE FINAL INNING AS THE GIANTS WRAPPED UP THEIR 9-0 VICTORY OVER THE CARDINALS...SECURING A SPOT IN THE WORLD SERIES. SCATTERED SHOWERS CONTINUED BEHIND THE FRONT THROUGH THURSDAY THE 25TH. RAIN TOTALS WITH THIS SECOND OCTOBER PRECIPITATION EVENT WERE AS HIGH AS 2 INCHES IN THE NORTH BAY...BUT MOST AREAS PICKED UP BETWEEN ONE-QUARTER AND ONE INCH OF RAIN.

THE THIRD AND FINAL RAIN EVENT OCCURRED ON THE FINAL DAY OF THE MONTH. A SLOW MOVING COLD FRONT SPREAD RAIN FROM NORTHWEST TO SOUTHEAST ACROSS THE REGION LATE ON HALLOWEEN.

RAIN TOTALS FOR THE MONTH WERE RELATIVELY CLOSE TO NORMAL ACROSS THE NORTH BAY. ELSEWHERE...RAIN TOTALS WERE MOSTLY IN THE RANGE OF ABOUT ONE-THIRD TO TWO-THIRDS OF NORMAL. HIGHER MONTHLY RAIN TOTALS WERE REPORTED ACROSS MUCH OF THE SAN FRANCISCO PENINSULA AND PORTIONS OF THE EAST BAY. IN THESE AREAS...OCTOBER RAIN TOTALS RANGED FROM 120 TO 170 PERCENT OF NORMAL.

...OCTOBER REGIONAL TEMPERATURE SUMMARY...

LOCATION	AVG	NORMAL	DEPARTURE	AVG	NORMAL	DEPARTURE
	HIGH	HIGH	FROM NORMAL	LOW	LOW	FROM NORMAL
NORTH BAY...						
ANGWIN	72.0	72.6	-0.6	49.6	49.7	-0.1

CALISTOGA	79.6	79.3	0.3	46.1	45.4	0.7
CLOVERDALE	79.8	78.6	1.2	51.8	49.8	2.0
KENTFIELD	75.5	74.1	1.4	51.7	49.6	2.1
NAPA	78.4	76.7	1.7	51.2	49.2	2.0
NAPA AIRPORT	75.2	74.1	1.1	48.4	43.1	5.3
OCCIDENTAL	70.4	72.1	-1.7	52.0	50.9	1.1
SAN RAFAEL	74.4	72.7	1.7	52.6	51.0	1.6
SANTA ROSA	77.9	77.9	0.0	50.1	48.3	1.8
SANTA ROSA AP	76.9	76.4	0.5	47.4	45.0	2.4
SONOMA	75.3	77.4	-2.1	49.1	46.8	2.3

SAN FRANCISCO PENINSULA...

HALF MOON BAY	66.4	65.6	0.8	49.4	46.9	2.5
PALO ALTO	73.5	74.0	-0.5	49.5	48.1	1.4
REDWOOD CITY	75.1	74.2	0.9	52.4	49.9	2.5
SAN FRANCISCO AIRPORT	71.4	70.4	1.0	55.3	53.2	2.1
SAN FRANCISCO DOWNTOWN	69.1	69.2	-0.1	55.3	53.7	1.6

EAST BAY...

CONCORD	74.6	77.0	-2.4	54.9	52.6	2.3
CONCORD AIRPORT	75.6	76.7	-1.1	52.4	51.1	1.3
FREMONT	73.4	72.8	0.6	53.6	51.7	1.9
HAYWARD AIRPORT	72.5	71.5	1.0	55.1	53.6	1.5
LIVERMORE	77.3	76.9	0.4	51.5	50.0	1.5
LIVERMORE AP	77.2	76.4	0.8	52.1	49.5	2.6
MARTINEZ	75.0	75.9	-0.9	49.0	45.8	3.2
MOUNT DIABLO JUNCTION	71.0	73.5	-2.5	53.6	51.6	2.0
NEWARK	72.9	72.7	0.2	54.2	53.7	0.5
OAKLAND	72.9	71.7	1.2	55.4	54.4	1.0
OAKLAND AIRPORT	71.7	69.7	2.0	52.6	51.3	1.3
RICHMOND	73.1	71.8	1.3	53.8	53.6	0.2

SOUTH BAY AND SANTA CRUZ COUNTY...

GILROY	77.7	78.9	-1.2	51.3	48.5	2.8
MOFFETT FIELD	73.8	73.4	0.4	55.2	53.8	1.4
MOUNT HAMILTON	64.4	64.6	-0.2	52.0	51.7	0.3
SANTA CRUZ	74.5	73.2	1.3	50.8	49.5	1.3
WATSONVILLE	75.6	72.2	3.4	51.4	48.4	3.0
WATSONVILLE AP	73.6	72.3	1.3	50.7	48.3	2.4

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	78.4	77.4	1.0	49.2	48.3	0.9
HOLLISTER	77.3	77.0	0.3	51.7	47.4	4.3
KING CITY	79.3	79.8	-0.5	48.7	46.0	2.7
MONTEREY	70.4	68.2	2.2	53.4	50.8	2.6
MONTEREY AIRPORT	69.4	67.2	2.2	52.3	50.1	2.2
PINNACLES NM	82.9	81.3	1.6	43.6	M	M

SALINAS	74.9	72.7	2.2	48.0	48.3	-0.3
SALINAS AIRPORT	75.2	72.7	2.5	52.6	49.7	2.9

...OCTOBER REGIONAL PRECIPITATION SUMMARY...

LOCATION	OCT TOTAL	NORMAL OCT PRECIP	PERCENT OF NORMAL
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NORTH BAY...

ANGWIN	1.44	2.19	66
CALISTOGA	2.00	2.11	95
CLOVERDALE	1.75	2.12	83
KENTFIELD	2.21	2.26	98
NAPA	1.51	1.48	102
NAPA AIRPORT	1.36	0.97	140
OCCIDENTAL	2.55	2.87	89
SAINT HELENA	1.48	1.85	80
SAN RAFAEL	1.43	1.49	96
SANTA ROSA	1.33	1.73	77
SONOMA COUNTY AP	2.39	2.03	118
SONOMA	1.40	1.64	85

SAN FRANCISCO PENINSULA...

HALF MOON BAY	2.51	1.56	161
PALO ALTO	1.33	0.76	175
REDWOOD CITY	1.75	1.06	165
SAN FRANCISCO AIRPORT	0.70	0.95	74
SAN FRANCISCO DOWNTOWN	1.47	1.12	131

EAST BAY...

CONCORD	0.65	0.82	79
CONCORD AIRPORT	1.05	0.87	121
FREMONT	0.70	0.85	82
HAYWARD AIRPORT	0.34	1.00	34
LIVERMORE	0.27	0.85	32
LIVERMORE AIRPORT	0.40	0.92	43
MARTINEZ	1.25	0.98	128
MOUNT DIABLO JUNCTION	1.39	1.42	98
NEWARK	1.13	0.81	140
OAKLAND	1.37	1.37	100
OAKLAND AIRPORT	0.80	1.20	67
RICHMOND	1.88	1.44	131

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	1.39	2.35	59
GILROY	0.49	0.92	53
MOFFETT FIELD	0.69	0.64	108
MOUNT HAMILTON	0.48	1.42	34
SAN JOSE	0.35	0.80	44
SANTA CRUZ	0.53	1.45	37
WATSONVILLE	0.41	1.10	37
WATSONVILLE AP	0.40	0.92	43

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	0.58	0.93	62
HOLLISTER	0.42	0.69	61
KING CITY	0.28	0.63	44
MONTEREY	0.45	1.06	42
MONTEREY AIRPORT	0.61	0.93	66
PINNACLES NM	0.28	0.86	33
SALINAS	0.28	0.64	44
SALINAS AIRPORT	0.19	0.58	33

...DAILY TEMPERATURE RECORDS FOR OCTOBER 2012...

		RECORD MAXIMUM TEMP	PREVIOUS RECORD
10/01	KENTFIELD	97	96 IN 1913
10/02	KENTFIELD	99	98 IN 1980
10/02	MOFFETT FIELD	95	94 IN 1980
10/02	SAN JOSE	96	96 IN 1980
10/02	KING CITY	108	107 IN 1980
10/18	SAN FRANCISCO AIRPORT	86	85 IN 1988
10/18	OAKLAND	87	84 IN 1974
10/18	OAKLAND AIRPORT	87	83 IN 1974
10/18	MOFFETT FIELD	89	87 IN 1995

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

AVERAGE HIGH TEMPERATURE....69.1....54TH WARMEST OUT OF 138 YEARS
 AVERAGE LOW TEMPERATURE.....55.3....24TH WARMEST OUT OF 138 YEARS
 PRECIPITATION..... 1.47 IN....41ST WETTEST OUT OF 162 YEARS

...MONTHLY EXTREMES FOR SELECT LOCATIONS...

LOCATION	WARMEST DAY(S)	COOLEST DAY(S)	WETTEST DAY(S)
SANTA ROSA AIRPORT	10/02 102 DEG	10/21 39 DEG	10/22 1.13 IN
SAN FRANCISCO	10/02 94 DEG	3 DAYS 51 DEG	10/22 0.81 IN
LIVERMORE AIRPORT	10/02 103 DEG	3 DAYS 45 DEG	10/22 0.23 IN
SAN JOSE	10/02 96 DEG	MISSING	10/22 0.11 IN
SALINAS AIRPORT	10/02 101 DEG	10/24 44 DEG	10/22 0.12 IN

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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