

...JULY 2010 REGIONAL CLIMATE SUMMARY...

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

...ONE OF THE COOLEST JULYS ON RECORD...

JULY 2010 WAS THE FORTH CONSECUTIVE MONTH THAT WAS COOLER THAN NORMAL ACROSS BOTH THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA. HOWEVER...UNLIKE JUNE WHEN TEMPERATURES WERE ONLY SLIGHTLY BELOW NORMAL...JULY TEMPERATURES WERE SIGNIFICANTLY BELOW NORMAL. IN FACT...AVERAGE HIGH TEMPERATURES AT A FEW LOCATIONS WERE THE COOLEST EVER RECORDED FOR THE MONTH OF JULY. IN ADDITION...THE AVERAGE HIGH TEMPERATURE AT MOST REPORTING LOCATIONS RANKED AS ONE OF THE TOP 5 COOLEST ON RECORD.

DURING THE FIRST HALF OF JULY...TEMPERATURES FLUCTUATED ABOVE AND BELOW NORMAL. THERE WERE A COUPLE OF RELATIVELY WARM PERIODS...BUT NO PROLONGED OR OPPRESSIVE HEAT WAVES. ONE WARM SPELL OCCURRED NEAR THE START OF THE MONTH ON THE 3RD AND 4TH AND THEN ANOTHER FELL NEAR THE MIDDLE OF THE MONTH. AVERAGE TEMPERATURES FOR THE FIRST HALF OF THE MONTH DID NOT DEPART SIGNIFICANTLY FROM THE JULY NORMAL. AN UPPER LEVEL TROUGH ANCHORED ITSELF ALONG THE WEST COAST DURING THE SECOND HALF OF THE MONTH AND PRODUCED A PROLONGED COOL SPELL. AFTER THE MID-MONTH WARM SPELL CAME TO AN END ON THE 17TH...TEMPERATURES SLIPPED BELOW NORMAL AND REMAINED THERE FOR THE REMAINDER OF THE MONTH.

DESPITE BEING ONE OF THE COOLEST JULYS ON RECORD...THERE WERE ONLY A FEW DAILY TEMPERATURE RECORDS SET DURING THE MONTH. AND...MOST OF THOSE DAILY RECORDS OCCURED AT THE OAKLAND MUSEUM WHICH HAS ONLY 38 YEARS OF TEMPERATURE DATA. JULY 2010 WAS ESSENTIALLY CHARACTERIZED BY PERSISTENT COOLNESS...RATHER THAN LARGE TEMPEARTURE SWINGS OR EXTREME HOT OR COLD SPELLS.

AVERAGE HIGH TEMPERATURES FOR THE MONTH AT THE VARIOUS CLIMATE STATIONS RANGED FROM JUST A FEW DEGREES BELOW NORMAL TO AS MUCH AS EIGHT DEGREES BELOW NORMAL. WIDSPREAD AND PERSISTENT LOW CLOUDINESS DURING THE NIGHTTIME HOURS HELPED KEEP MINIMUM TEMPERATURES RELATIVELY CLOSE TO NORMAL...DESPITE THE OVERALL COOLNESS OF THE MONTH. AVERARGE LOW TEMPERATURES WERE ONLY SLIGHTLY BELOW NORMAL AT THE MAJORITY OF REPORTING LOCATIONS AND WERE EVEN A BIT ABOVE NORMAL AT SEVERAL. THUS...EVEN THOUGH AVERAGE HIGH TEMPERATURES FOR THE MONTH WERE AT OR NEAR ALL TIME RECORD COOL LEVELS...THE AVERAGE OF THE MONTHLY HIGH AND LOW TEMPERATURES COMBINED (AVERAGE AVERAGE TEMPERATURES) WERE NOT...IN MOST CASES...AS CLOSE TO ALL TIME RECORDS. THE TABLE BELOW PROVIDES DETAILS ON HOW JULY 2010 TEMPERATURES RANK WHEN COMPARED TO OTHER YEARS. FOR EXAMPLE...IN SAN JOSE...THE JULY 2010 AVERAGE HIGH TEMPERATURE OF 78.8 DEGREES RANKS AS THE 4TH COOLEST IN 86 YEARS OF TEMPERATURE RECORDS...AND REPRESENTS THE COOLEST AVERAGE HIGH SINCE 1955. HOWEVER...THE AVERAGE OFF ALL JULY 2010 AVERAGE TEMPERATURES (HIGH AND LOW TEMPERATURE AVERAGED TOGETHER) RANKS AS ONLY THE 27TH COOLEST ON RECORD IN SAN JOSE.

	JULY 2010		2010 RANK			LAST TIME
	-----		-----			AVG HIGH
	AVG	AVG	AVG	AVG	YEARS OF	AS COLD
	HIGH	AVG	HIGH	AVG	RECORD	OR COLDER
MONTEREY	63.3	57.6	1	3	60	N/A
ST. HELENA	82.9	68.6	1	6	102	N/A
HOLLISTER	67.9	63.6	2	2	31	1994
GILROY	83.2	68.6	2	5	51	1987
OAKLAND	68.3	61.7	2	2	38	1994
REDWOOD CITY	77.2	66.8	2	11	79	1987
SALINAS	67.9	60.7	2	3	52	1962
SAN RAFAEL	75.9	64.6	2	2	60	1994
KENTFIELD	77.6	64.6	3	14	52	1910
SANTA ROSA	75.5	63.3	3	4	108	1987
CARMEL VALLEY	74.7	63.1	4	12	29	1975
MOUNT DIABLO	80.5	69.5	4	9	57	2000
SAN JOSE	78.8	67.9	4	27	86	1955
SONOMA	81.8	67.2	4	7	57	1905
WATSONVILLE	66.9	60.6	4	25	97	1994
KING CITY	81.5	67.4	5	22	100	1994
NEWARK	74.0	65.2	5	12	68	1987
NAPA	78.4	65.9	11	21	114	1944
SAN FRANCISCO	63.1	58.4	19	34	136	1970

JULY 2010 WAS MOSTLY DEVOID OF PRECIPITATION. MONSOONAL MOISTURE REMAINED ENTIRELY TO THE EAST OF OUR AREA DURING THE MONTH...WITH ONE EXCEPTION. DURING THE EARLY MORNING HOURS OF SUNDAY...JULY 11 AN AREA OF ELEVATED CONVECTION ACROSS SOUTH-CENTRAL CALIFORNIA CLIPPED THE SOUTHEASTERN-MOST SECTION OF OUR FORECAST AREA. ONE LIGHTNING STRIKE WAS DETECTED NEAR THE MONTEREY COUNTY TOWN OF PARKFIELD.

THE ONLY MEASURABLE PRECIPITATION FOR THE MONTH WAS IN THE FORM OF DRIZZLE FALLING FROM A DEEP MARINE LAYER. MOST OF THIS OCCURRED CLOSE TO THE OCEAN.

...JULY REGIONAL TEMPERATURE SUMMARY...

			DEPARTURE			DEPARTURE
	AVG	NORMAL	FROM	AVG	NORMAL	FROM
LOCATION	HIGH	HIGH	NORMAL	LOW	LOW	NORMAL
NORTH BAY...						
KENTFIELD	77.6	85.0	-7.4	51.6	52.2	-0.6
NAPA	78.4	82.8	-4.4	53.3	54.5	-1.2
PETALUMA	M	82.1	M	M	52.2	M
SAINT HELENA	82.9	89.5	-6.6	54.2	53.8	0.4
SAN RAFAEL	75.9	81.2	-5.3	53.3	54.6	-1.3

SANTA ROSA	75.5	82.1	-6.6	51.1	52.4	-1.3
SONOMA	81.8	89.6	-7.8	52.5	51.9	0.6

SAN FRANCISCO PENINSULA...

REDWOOD CITY	77.2	82.7	-5.5	56.4	55.0	1.4
SAN FRANCISCO						
AIRPORT	70.0	71.9	-1.9	55.9	54.5	1.4
SAN FRANCISCO						
DOWNTOWN	63.1	67.7	-4.6	53.7	54.4	-0.7

EAST BAY...

BERKELEY	M	70.9	M	M	54.7	M
CONCORD	82.6	87.4	-4.8	56.1	58.2	-2.1
FREMONT	75.5	79.3	-3.8	55.7	56.9	-1.2
LIVERMORE	M	89.1	M	M	54.9	M
MOUNT DIABLO						
JUNCTION	80.5	85.2	-4.7	58.5	59.4	-0.9
NEWARK	74.0	76.7	-2.7	56.3	57.7	-1.4
OAKLAND	68.3	72.4	-4.1	55.0	57.0	-2.0
RICHMOND	M	71.4	M	M	55.7	M

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	M	85.2	M	M	50.3	M
GILROY	83.2	88.3	-5.1	54.0	54.5	-0.5
LOS GATOS	M	85.4	M	M	54.4	M
MOUNT HAMILTON	M	78.2	M	M	63.1	M
SAN JOSE	78.8	82.8	-4.0	57.0	57.5	-0.5
SANTA CRUZ	M	74.5	M	M	52.5	M
WATSONVILLE	66.9	71.6	-4.7	54.2	53.1	1.1

MONTEREY AND SAN BENITO COUNTIES...

BIG SUR STATION	68.1	76.2	-8.1	50.7	50.3	0.4
CARMEL VALLEY	74.7	77.5	-2.8	51.4	49.2	2.2
HOLLISTER	75.4	80.4	-5.0	51.7	52.6	-0.9
KING CITY	81.5	84.7	-3.2	53.2	51.7	1.5
MONTEREY	63.3	68.5	-5.2	51.9	52.4	-0.5
PINNACLES NATIONAL						
MONUMENT	M	94.1	M	49.8	50.5	-0.7
SALINAS	67.9	71.3	-3.4	53.4	54.2	-0.8

...JULY REGIONAL PRECIPITATION SUMMARY...

LOCATION	JULY TOTAL	AVERAGE JULY PRECIP	PERCENT OF NORMAL
----------	---------------	---------------------------	----------------------

NORTH BAY...

KENTFIELD	0.00	0.12	0
-----------	------	------	---

MUIR WOODS	0.07	0.12	58
NAPA	0.00	0.05	0
OCCIDENTAL	0.04	0.12	33
PETALUMA	M	0.05	M
SAINT HELENA	0.00	0.05	0
SAN RAFAEL	0.00	0.07	0
SANTA ROSA	0.01	0.06	17
SONOMA	0.00	0.05	0

SAN FRANCISCO PENINSULA...

HALF MOON BAY	T	0.15	0
PACIFICA	M	0.04	M
REDWOOD CITY	0.00	0.03	0
SAN FRANCISCO			
AIRPORT	T	0.03	0
SAN FRANCISCO			
DOWNTOWN	0.00	0.03	0

EAST BAY...

BERKELEY	M	0.08	M
CONCORD	0.00	0.01	0
FREMONT	0.00	0.01	0
LIVERMORE	M	0.03	M
MARTINEZ	M	0.02	M
MOUNT DIABLO			
JUNCTION	0.00	0.05	0
NEWARK	0.00	0.03	0
OAKLAND	0.00	0.07	0
RICHMOND	M	0.07	M

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	M	0.11	M
GILROY	0.00	0.06	0
LOS GATOS	M	0.04	M
MOUNT HAMILTON	M	0.05	M
SAN JOSE	0.00	0.06	0
SANTA CRUZ	0.00	0.14	0
WATSONVILLE	0.01	0.08	13

MONTEREY AND SAN BENITO COUNTIES...

BIG SUR STATION	0.00	0.07	0
CARMEL VALLEY	0.00	0.02	0
HOLLISTER	0.00	0.05	0
KING CITY	0.00	0.01	0
MONTEREY	T	0.09	0
PINNACLES NATIONAL			
MONUMENT	0.00	0.04	0
SALINAS	T	0.04	0

...DAILY TEMPERATURE RECORDS FOR JULY 2010...

DATE	LOCATION	RECORD LOW MAXIMUM TEMP	OLD RECORD
7/21	SAN FRANCISCO	56	57 IN 1944
7/21	OAKLAND MUSEUM	61	63 IN 2008

DATE	LOCATION	RECORD LOW MINIMUM TEMP	OLD RECORD
7/25	OAKLAND MUSEUM	53	53 IN 1989
7/31	OAKLAND MUSEUM	53	53 IN 1999

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

AVERAGE HIGH TEMPERATURE.....63.1.....19TH COOLEST OUT OF 136 YEARS
AVERAGE LOW TEMPERATURE.....53.7.....53TH WARMEST OUT OF 136 YEARS

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
CERTIFIED CLIMATOLOGICAL DATA PLEASE CONTACT THE NATIONAL
CLIMATIC DATA CENTER AT 828-271-4800 OR <http://www.ncdc.noaa.gov>.
OFFICIAL VALUES AS DETERMINED AT THE ABOVE WEB SITE MAY TAKE
SEVERAL MONTHS FOR AUTHENTICATION AND PUBLICATION.

\$\$

DYKEMA