SUMMARY of the June 2008 WEATHER ON THE MONTEREY PENINSULA

General: Not the common garden-variety June weather pattern, by any standard! Temperatures below normal (again) and many temperature records. Precipitation below normal, number of fog-days well above normal and a sky continuously giving evidence of serious forest fires to the nearby north and south, for over half the month.

Temperature: Even with two heat-wave sequences – one minor (9-12 June) and one major (19-21 June), the month of June 2008 couldn’t return the area back to positive temperature anomalies! The count of consecutive below-normal months: 23, with the one exception: March 2007.

The averages: 66.4°F maximums (57-year “norm” 66.7°F)
49.6°F minimum (57-year “norm” 50.3°F)
58.0°F mean (57-year “norm” 58.5°F)

Maximums on 19 June days registered below normal while 24 daily minimums were subnormal. The temperatures ranged from 98°F on the 20th to 44°F on the 7th at the NWSC Station.

And, there were 11 daily temperature maximums/minimums that tied or set a new record (based on 60 years of data) -- a monthly record in itself!

06 June: maximum 58°F tied cold record set in 1965
11 June: maximum 77°F tied warm record set in 1985
12 June: maximum 79°F warm record (was 78°F in 1966)
15 June: maximum 55°F cold record (was 58°F in 1996)
16 June: maximum 54°F cold record (was 56°F in 2007)
17 June: minimum 46°F tied cold record set in 1954
20 June: minimum 65°F warm record (was 55°F in 1951
21 June: maximum 95°F warm record (was 91°F in 1973)
21 June: minimum 67°F warm record (was 55°F in 1998)
23 June: maximum 55°F cold record (was 60°F in 1998)
25 June: maximum 54°F cold record (was 57°F in 1967)

Precipitation: The 2007/2008 rain year ended on 30 June 2008. June contributed 0.03” vice the 57-year “norm” of 0.20”. No record here – June precipitation has been as high as 1.56” in 1967 and zero in many years.

The 2007/2008 rain year total finished at 14.83” compared to 19.50” expectation – 76% of the 57-year “norm” – and, a median of 17.09”. Last rain year’s precipitation totaled 13.62” – 70% of normal. The May-June 2008 total of only 0.06” is the least since 0.05” in May/June 2001 but that was part of a rain year that totaled 19.39”.

The one thunderstorm day, 21 June, was the weather highlight of the month, even though only 0.03” was recorded, as a line of thunderstorms passed over the Peninsula from the southwest. 21 June 2008 was the first thunderstorm day since 27 January of this year. Although the long-term average is five thunder days a year, 2007 (with one) and this year with only two so far, are at a level less than climatological expectation.

And, of course, 21 June will be remembered for the hundreds of California fires started by the lightning associated with the nearly “dry” thunderstorms.

Wind: Maximum wind gust at the NWS Climate Station was 36 mph on the 6th – peak winds at other stations occurred on other days – see data page.
Fog: The number of fog days counted at the NWS Climate Station was very significant – 22. Fog observed mostly night/early daylight hours and concentrated downstream from the Ocean/Bay. 22 days is the most recorded in 45 June’s, along with 1984 and 1977 (45-year “normal” is 15 fog days).

Smoke (in relation to the atmosphere): Ever since the Martin fire (to the north of the Peninsula near Watsonville) and Indians fire to the south (west of King City) mid-month, with the later addition of the Basin Complex Fire 21 June, the Central Coast atmosphere has been polluted variously with smoke particles and discolorations of the “blue”, which probably contributed to reduced visibility due to haze/fog. As we go to press (2 July) the “real” blue sky is being confirmed at least over the Monterey Peninsula! Details have been covered adequately by the media.

NOTE: The Monthly Monterey Peninsula Weather Summary is available electronically using the following website address: http://www.weather.nps.navy.mil/renard_wx/. Click on a given month and year to see the desired weather summary. Listings go back to January 1992. The latest weather summary is generally available by the fifth of the month following.

Temperatures and Precipitation Outlook for the Central Coast for the period July thru September 2008: The National Weather Service outlook for July through September indicates near-to-above normal temperatures on the immediate Central Coast area, but warmer than normal inland over northeast and southeast California, and the Nevada, Arizona areas, There is little definity in the dry-season rainfall forecast for this area.

<table>
<thead>
<tr>
<th>Rainfall (inches)</th>
<th>Normal Max/Min Temps (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>0.07</td>
</tr>
<tr>
<td>August</td>
<td>0.10</td>
</tr>
<tr>
<td>September</td>
<td>0.26</td>
</tr>
</tbody>
</table>

Comparative Weather Data for Stations on/near the Monterey Peninsula & Salinas

June 2008

Following are comparative figures from eleven local observation sites:

1. National Weather Service Climate Station (NWSCS), (elevation 385') located in the western hilly section of Monterey;
2. National Weather Service Forecast Office (NWSFO) site (elevation 122'), located in the flat area of eastern Monterey, on the NPS Annex grounds adjacent to Airport;
3. Naval Postgraduate School Campus (NPS) site, Monterey; (elevation 45');
4. Ft. Ord (NPS) site (elevation 167') located just north of the Marina Municipal Airport (formerly Fritzschie Army Airfield). This is the site of the Naval Postgraduate School's wind profilers managed by Department of Meteorology;
5. Marina site, SE end of Marina located about 2-1/2 miles ESE of Monterey Bay (elevation 80');
6. Carmel Valley site near Carmel Village, vicinity of Ford Rd. and Lilac Lane (elevation 475');
7. Salinas site, vicinity of W. Blanco Rd. within 1/2 mile of S. Main St.;
8. Carmel, located on Rio Road near east end;
9. Seaside, vicinity of Paralta and Military Aves;
10. Pacific Grove site, vicinity of Sunset and Congress Streets;
11. Big Sur Ranger Station, Highway 1, Big Sur.
<table>
<thead>
<tr>
<th>Location</th>
<th>Temperature (°F)</th>
<th>Precipitation (inches)</th>
<th>Wind (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Avg. Max.</td>
<td>Highest</td>
<td>Avg. Min.</td>
</tr>
<tr>
<td>NWSCS</td>
<td>66.4</td>
<td>98</td>
<td>49.6</td>
</tr>
<tr>
<td>NWSFO</td>
<td>65.7</td>
<td>88</td>
<td>50.5</td>
</tr>
<tr>
<td>NPS</td>
<td>66.0</td>
<td>86</td>
<td>50.7</td>
</tr>
<tr>
<td>Ft. Ord (NPS)</td>
<td>65.6</td>
<td>96</td>
<td>47.9</td>
</tr>
<tr>
<td>Marina</td>
<td>65.0</td>
<td>93</td>
<td>50.1</td>
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<tr>
<td>Carmel Valley</td>
<td>79.4</td>
<td>106</td>
<td>47.8</td>
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<tr>
<td>Salinas</td>
<td>71.2</td>
<td>103</td>
<td>50.1</td>
</tr>
<tr>
<td>Carmel</td>
<td>69.2</td>
<td>105</td>
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<tr>
<td>Seaside</td>
<td>66.4</td>
<td>98</td>
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<tr>
<td>Pacific Grove</td>
<td>68.8</td>
<td>89</td>
<td>51.2</td>
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<tr>
<td>Big Sur</td>
<td>77.7</td>
<td>102</td>
<td>49.7</td>
</tr>
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</table>

**FOOTNOTES:**

Precipitation observations: a = 5 or 6 PM PST, b = midnight PST, c = 3 or 4 PM local, d = 6 to 8 AM local time (NOTE: for d: 24-h rainfall measured 8 AM, first day of the month counts for previous month)

@ = 57-year average, # = 51-year average, + = 25-year average, & = 24-year average.