



Sonoma County Forecast

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This forecast is brought to you by the Sonoma County Winegrape Commission

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HIGHLIGHTS: Warm temperatures for today and tomorrow with several areas over the century mark. Cooler temperatures should arrive this weekend with significantly cooler weather for the middle of next week.

Short Term Weather Discussion: Upper-level ridging has set up over the Desert SW and extends over California which will lead to another day that is generally cloud free. Temperatures today are expected to be similar to yesterday with most locations in Sonoma County reaching the 90's to lower 100's. The only exception may be the Lower Russian River Valley if onshore flow kicks in later this afternoon. Onshore flow will probably slowly strengthen through the day tomorrow which will allow temperatures to back off a few degrees. It is important to note that onshore flow may not return until Saturday which would leave most areas, especially those with more of a marine influence, with slightly warmer temperatures than forecast.

SHORT TERM FORECAST SPECIFICS

		<u>Weather</u>	<u>Max/Min</u>	<u>Dew Pts</u>	<u>Chc of Rain</u>	<u>Amounts</u>	<u>Winds</u>
TODAY	Alexander Valley Area	Sunny	98-102	45-55	0%	none	S-SW 3-12
	Lower Russian River Valley	↓	86-96	↓	↓	↓	SW-Var 3-12
	Petaluma/Sonoma/Carneros Areas	↓	90-100	↓	↓	↓	W-Var 3-12
TONIGHT	Alexander Valley Area	Clear	50-55	45-55	0%	none	Var 0-10
	Lower Russian River Valley	↓	↓	↓	↓	↓	↓
	Petaluma/Sonoma/Carneros Areas	↓	↓	↓	↓	↓	↓
FRIDAY	Alexander Valley Area	Sunny	92-97	45-55	0%	none	S-SW 3-12
	Lower Russian River Valley	↓	80-90	↓	↓	↓	SW-Var 3-12
	Petaluma/Sonoma/Carneros Areas	↓	85-95	↓	↓	↓	W-Var 3-12

Extended Forecast Discussion: Flow over California becomes more zonal on Saturday allowing onshore flow to strengthen and cool off most locations. This will coincide with an upper-level low moving into British Columbia. On Sunday, the low will dive southeastward toward the Northern Rockies which will place the state on the back side of its trough allowing another day of cooling. As the trough moves east on Monday, flat ridging will temporarily develop causing temperatures to momentarily warm a couple of degrees. The warming will precede a trough that is expected to dive southward along the West Coast through Wednesday leading to another significant cool down with temperatures on Wednesday probably running almost 15F below normal. Weak ridging should briefly return for the end of the week but models are indicating that another trough should return for the weekend maintaining near to below normal temperatures.

EXTENDED RANGE OUTLOOK

	<u>Sat 9/4</u>	<u>Sun 9/5</u>	<u>Mon 9/6</u>	<u>Tue 9/7</u>	<u>Wed 9/8</u>	<u>Trends Thu 09/9 - Sat 09/11</u>	
Weather/Sky	AM clds/Sun	AM clds/Sun	AM clds/Sun	AM clds/Sun	AM clds/Sun	Max Temps:	Near to below normal
Max Temps	75-91	72-84	72-85	69-79	68-75	Min Temps:	Near to below normal
Min Temps	48-54	46-53	45-52	45-51	46-52	Precipitation:	Unlikely
Chc of Rain	0%	0%	0%	0%	10%	Wx Pattern:	Weak ridging develops but another trough should return by the weekend
Amounts	none	none	none	none	Tr - .10		
Winds	SW-W 5-15	SW-W 5-25	SW-W 5-20	SW-W 5-20	SW-W 5-20		

REGIONAL CLIMATE SUMMARY

1 September 2010	Precipitation				Daily ETo	Past week ETo	Today's normals	Today's Records & Year
	Max/Min	24hr	Seas, since 7/1	% normal				
Ukiah	99/52	-	0.01	4%	--	--	89/53	114 (1955), 39 (1899)
Windsor (103)	96/45	0.00	0.00	--	0.22	1.32	--	--
Santa Rosa Arpt	98/48	-	0.01	5%	--	--	82/53	107 (1955), 34 (1914)
Santa Rosa (083)	94/46	0.00	0.05	--	0.21	1.21	--	--
Bennett Valley (158)	96/44	0.00	0.00	--	0.21	1.23	--	--
Petaluma E (144)	93/47	0.00	0.00	--	0.19	1.12	--	--
Carneros (109)	95/48	0.00	0.00	--	0.22	1.30	--	--

Sonoma County Weather Station Network
Daily Meteorological Summary
Wednesday, September 1, 2010

Station:	Temperature					Avg	Avg	WIND			Precipitation		Solar	ETo	2-Sep-10
	Max	time	Min	time	Avg	DewPt	RH	Avg	Gust	Gust	24hr	Season	Rad		Min Temp
	°F	occur	°F	occur	°F	°F	%	mph	mph	Dir	In.	In.	cal/cm ²		in.
Geyserville-West	101.3	1527	49.3	331	72.0	-----	60	0.6	11.3	----	0.00	0.00	535	0.18	52.8
Alexander Valley	102.1	1554	48.6	645	72.8	49.0	52	1.4	13.2	S	0.00	0.00	571	0.17	52.7
Sebastopol	94.9	1346	46.3	549	69.7	48.6	56	1.7	17.8	WSW	0.00	0.02	-----	-----	50.6
Graton-South	93.1	1301	44.3	658	68.7	48.0	57	2.0	18.7	WSW	0.00	0.01	-----	-----	49.0
Sonoma-SW	98.2	1455	47.3	530	72.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	51.6
Sonoma-West	97.4	1501	50.1	546	73.6	48.7	48	2.9	13.5	WSW	0.00	0.00	588	0.22	56.0

Sonoma County Weather Station Network
Daily Biometeorological Summary
Wednesday, September 1, 2010

Station:	Continuous hours		Powdery Mildew Stress*	Growing Degree Days		Chill Hours	min battery
	70-85°F	T>95°F	category (pts)	ytd	T>50°F season	T<45°F	volts
Geyserville-West	2.5	4.3	severe (80)	22.0	----	0.0	12.3
Alexander Valley	2.5	5.0	severe (80)	22.8	1889.0	0.0	12.3
Sebastopol	2.1	0.0	severe (60)	20.2	1382.0	0.0	12.2
Graton-South	2.2	0.0	light (30)	19.6	1283.0	1.4	13.0
Sonoma-SW	2.0	2.4	severe (80)	22.6	----	-----	12.0
Sonoma-West	2.6	1.8	severe (80)	23.6	----	0.0	12.3

Powdery Mildew Stress Outlook: Stress should decrease today and tomorrow as temperatures are too warm but it may begin increasing again by the weekend as temperatures cool off.

	Sonoma County Evapotranspiration (ETo) Forecast	7 Day Outlook 9/2 - 9/8		Past Week (8/26 - 9/1) Summary				
		Normal	Forecast	Daily		7 Day Total	Period Normal	Percent Normal
				Max	Min			
Geyserville		1.34	1.27	0.22	0.19	1.46	1.42	103%
Windsor		1.13	1.07	0.22	0.15	1.32	1.20	110%
Graton		1.10	1.05	0.21	0.12	1.21	1.17	103%
Petaluma		1.15	1.09	0.19	0.13	1.12	1.21	93%
Carneros		1.20	1.14	0.22	0.17	1.30	1.27	102%