



Sonoma County Forecast

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HIGHLIGHTS: Mostly sunny, cooler and increasingly breezy today. Cool tonight with areas of low clouds, fog by dawn. Partly cloudy, much cooler Wednesday with a chance of showers. Gradual warming the rest of the week.

Short Term Weather Discussion: A compact, though well supported, weather system will make its way inland across the Pacific Northwest removing all trace of high pressure across California by day's end. This will leave Sonoma County noticeably cooler today as the quick reestablishment of onshore flow will draw a rapidly deepening marine layer into the state's interior. This will drop Sonoma County valley highs to the 70s and 80s today as the region notes strengthening southwest winds during the afternoon. Look for fog, low cloudiness spread inland across the county tonight which will break up tomorrow morning to reveal plenty of higher based clouds as the support for this Pacific Northwest disturbance plunges southward across California on Wednesday. This trough passage will also trigger shower, thundershower development primarily over the North State higher terrain on Wednesday. While vast majority of this shower activity should take place north or well east of the county, there is an outside chance that some regional locations will see some showers on a day when regional temperatures will be hard pressed to reach, much less exceed 70F.

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	80-85	45-50	0%	none	SW 0-10 → 5-15
	Lower Russian River Valley	patchy fog→ Sunny	70-80	↓	↓	↓	SW-W 5-10 → 10-20
	Petaluma/Sonoma/Carneros Areas	Sunny	75-85	↓	↓	↓	↓
TONIGHT	Alexander Valley Area	Clear → low clds, fog	45-50	45-50	0%	none	SW 5-15
	Lower Russian River Valley	↓	45-55	↓	↓	↓	SW-W 10-15
	Petaluma/Sonoma/Carneros Areas	↓	↓	↓	↓	↓	↓
Wednesday	Alexander Valley Area	low clds, fog→ P Cldy	70-75	50-55	10%	Tr -.10	SW 5-20
	Lower Russian River Valley	↓	65-70	↓	↓	↓	SW-W 10-20
	Petaluma/Sonoma/Carneros Areas	↓	65-75	↓	↓	↓	↓

Extended Forecast Discussion: The relatively slow northeastward ejection of a cool late summer trough should make for another relatively cool day across Sonoma County on Thursday despite the return of sunny skies once morning low clouds dissipate. The replacement of this exiting trough with broad but weak ridging across California will allow temperatures to continue to warm heading into the weekend although they are likely peak on the cool side of normal before the passage of weak disturbances across the Pacific Northwest introduces periodic surges of cooler (marine) air along the North Coast. Latest models suggest that this progressive weather pattern will cause Sonoma County temperatures to range from near to below normal well into the coming week.

EXTENDED RANGE OUTLOOK

	<u>Thu 9/9</u>	<u>Fri 9/10</u>	<u>Sat 9/11</u>	<u>Sun 9/12</u>	<u>Mon 9/13</u>	<u>Trends Tue 09/14 - Thu 09/16</u>
Weather/Sky	AM clds/Sun	AM clds/Sun	AM clds/Sun	AM clds/Sun	AM clds/Sun	Max Temps: Below to near normal
Max Temps	65-75	70-80	70-85	70-85	70-85	Min Temps: Below to near normal
Min Temps	35-45	37-47	37-52	40-50	40-50	Precipitation: unlikely
Chc of Rain	0%	0%	0%	0%	0%	Wx Pattern: Storm track sags south as series of disturbance advance inland across PacNW
Amounts	none	none	none	none	none	
Winds	SW-W 5-20	SW-W 5-15	SW-W 5-15	SW-W 5-15	SW-W 5-15	

REGIONAL CLIMATE SUMMARY

6 September 2010	Precipitation				Daily ETo	Past week ETo	Today's normals	Today's Records & Year
	Max/Min	24hr	Seas, since 7/1	% normal				
Ukiah	96/48	-	0.01	3%	--	--	88/53	108 (1957), 38 (1901)
Windsor (103)	93/43	0.00	0.00	--	0.22	1.43	--	--
Santa Rosa Arpt	95/47	-	0.01	4%	--	--	82/52	108 (1904), 34 (1914)
Santa Rosa (083)	91/42	0.00	0.05	--	0.21	1.31	--	--
Bennett Valley (158)	94/42	0.00	0.00	--	0.20	1.35	--	--
Petaluma E (144)	92/43	0.00	0.00	--	0.18	1.22	--	--
Carneros (109)	92/46	0.00	0.00	--	0.21	1.34	--	--

Sonoma County Weather Station Network
Daily Meteorological Summary
Monday, September 6, 2010

Station:	Temperature					Avg	Avg	WIND			Precipitation		Solar	7-Sep-10 This Morning's Min Temp °F (7am)	
	Max	time	Min	time	Avg	DewPt	RH	Avg	Gust	Gust	24hr	Season	Rad		ETo
	°F	occur	°F	occur	°F	°F	%	mph	mph	Dir	In.	In.	cal/cm ²		in.
Geyserville-West	98.0	1350	44.4	549	67.5	-----	59	0.4	11.0	----	0.00	0.00	543	0.18	43.8
Alexander Valley	98.3	1527	46.1	706	69.4	42.9	48	1.4	13.4	SW	0.00	0.00	569	0.17	41.5
Sebastopol	91.6	1308	42.8	643	65.7	44.4	55	2.1	17.1	WSW	0.00	0.02	-----	-----	42.0
Graton-South	90.2	1239	41.1	703	65.0	44.7	57	2.6	19.5	SW	0.00	0.01	-----	-----	41.7
Sonoma-SW	99.1	1428	43.1	527	69.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	45.3
Sonoma-West	96.7	1432	46.3	512	70.8	44.0	48	3.0	15.3	W	0.00	0.00	581	0.22	47.9

Sonoma County Weather Station Network
Daily Biometeorological Summary
Monday, September 6, 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	2.1	1.8	light (30)	18.1	----	0.8	12.3
Alexander Valley	2.1	2.9	light (30)	19.9	1984.0	0.0	12.2
Sebastopol	1.9	0.0	severe (70)	16.9	1454.0	3.0	12.2
Graton-South	1.9	0.0	light (10)	16.4	1348.0	3.7	13.1
Sonoma-SW	2.6	1.4	light (30)	20.2	----	-----	12.0
Sonoma-West	3.3	1.0	light (30)	21.1	----	0.0	12.2

Powdery Mildew Stress Outlook: Cooler weather ahead should cause many, if not most, areas to experience rising stress levels the rest of the week. The only exception will be mid west county locations, stretching from Bodega Bay to Sebastopol will not decreasing stress as many days see temperatures far short or barely reach 70F.

	Sonoma County Evapotranspiration (ETo) Forecast	7 Day Outlook 9/7 - 9/13		Past Week (8/31 - 9/6) Summary				
		Normal	Forecast	Daily		7 Day Total	Period Normal	Percent Normal
				Max	Min			
	Geyserville	1.28	1.22	0.23	0.21	1.53	1.36	113%
	Windsor	1.08	1.03	0.22	0.17	1.43	1.15	124%
	Graton	1.05	0.95	0.21	0.15	1.31	1.12	117%
	Petaluma	1.10	0.99	0.19	0.15	1.22	1.17	104%
	Carneros	1.16	1.04	0.22	0.15	1.34	1.22	110%