

COMPARATIVE HEAT SUMMATIONS  
AT SELECTED GRAPE GROWING LOCATIONS

<u>LOCATION</u>	<u>HEAT SUMMATIONS - DEGREE DAYS</u>													
	<u>1966</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>Avg.</u>
Saint Helena	3334	3288	3199	3172	3006	3169	3402	3328	2978	3307	3339	3410	3558	3268
Napa State Hospital	3136	3078	3013	2972	2966	3094	3201	3026	2819	3092	2978	3218	3198	3061
Sonoma	3034	3087	2997	2949	2841	3405	3669	3545	3243	3301	3483	2999	3707	3251
Livermore	3217	3198	3233	3390	3182	3324	3467	3350	3069	3325	3358	3741	3624	3344
Salinas FAA AP	-	-	-	-	-	-	-	-	-	-	-	2560	2707	2634
King City	2997	3033	2932	2813	2772	3023	3248	3035	2580	3252	3171	3100	3326	3022
Paso Robles AP	-	-	-	3680	3246	3275	3201	3510	3066	3674	3456	3573	3712	3439
*Shandon	-	-	3132	3219	-	3442	3288	3171	3221	2931	3041	3217	3245	3191
San Luis Obispo Poly.	-	-	-	2420	2435	2659	2708	2421	2200	2730	2610	-	2953	2571
*Edna Valley	-	-	-	-	-	-	-	2463	2492	2635	2330	-	-	2480
*Santa Maria Mesa Comp.	-	-	-	-	-	2640	2443	2526	2268	2997	2631	2632	2824	2620
Santa Maria AP	-	-	-	-	-	-	-	-	-	-	-	-	2403	2403

\*Source: Vineyard Temperature records. Other figures developed from United State Department of Commerce Climatological Data.

Region I <2500  
 III 3000-3500

TEPUSQUET VINEYARDS

Monthly and Cumulative Heat Summations - 1980  
 (Figures are in Degree-days)

<u>AREA AND VINEYARD</u>		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	
<u>Santa Maria</u>									
West Mesa Vineyard (Jensen)	Monthly	240	136	259	421	412	372	395	
	Cumulative		376	635	1056	1468	1840	2235	I
East Mesa Vineyard (Fleisher)	Monthly	228	229	374	473	402	412	371	
	Cumulative		457	831	1304	1706	2118	2489	I
COMPOSITE Santa Maria Area	Monthly	234	183	317	447	407	392	383	
	Cumulative		417	734	1181	1588	1979	2362	I
R. Goodchild Vineyard	Monthly	265	118	287	457	443	402	414	
	Cumulative		383	670	1127	1570	1972	2386	I
<u>Shandon</u>									
San Juan Vineyard	Monthly	89	133	361	608	509	354	340	
	Cumulative		222	583	1191	1700	2054	2394	I

TEPUSQUET VINEYARDS

Monthly and Cumulative Heat Summations - 1979  
(Figures are in Degree-days)

<u>AREA AND VINEYARD</u>		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	
<u>Santa Maria</u>									
West Mesa Vineyard (Jensen)	Monthly	177	323	388	436	419	495	300	Low <u>II</u>
	Cumulative		500	888	1324	1743	2238	2538	
East Mesa Vineyard (Fleisher)	Monthly	235	410	475	526	490	557	413	<u>III</u>
	Cumulative		645	1120	1646	2136	2693	3106	
COMPOSITE Santa Maria Area	Monthly	206	367	432	431	455	526	357	<u>II</u>
	Cumulative		573	1005	1486	1941	2467	2824	
R. Goodchild Vineyard	Monthly	153	337	372	401	421	448	313	<u>I</u>
	Cumulative		490	862	1263	1684	2132	2445	
<u>Shandon</u>									
San Juan Vineyard	Monthly	95	315	492	629	602	725	387	<u>III</u>
	Cumulative		410	902	1531	2133	2858	3245	

TEPUSQUET VINEYARDS

Monthly and Cumulative Heat Summations - 1978  
(Figures are in Degree-days)

<u>AREA AND VINEYARD</u>		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	
<u>Santa Maria</u>									
West Mesa Vineyards (Jensen)	Monthly	141	313	340	438	489	514	385	
	Cumulative		454	794	1232	1721	2235	2620	<i>II</i>
East Mesa Vineyards (Fleisher)	Monthly	167	381	307	387	474	509	415	
	Cumulative		548	855	1242	1716	2225	2640	<i>II</i>
COMPOSITE Santa Maria Area	Monthly	154	347	324	413	482	512	400	
	Cumulative		501	825	1238	1720	2232	2632	<i>II</i>
R. Goodchild Vineyard	Monthly	133	302	214	400	514	573	420	
	Cumulative		435	649	1049	1563	2136	2556	<i>low II</i>
<u>SHANDON</u>									
San Juan Vineyard	Monthly	85	352	540	736	702	434	368	
	Cumulative		437	977	1713	2415	2849	3217	<i>III</i>

TEPUSQUET AND SANTA MARIA VINEYARDS

Monthly and Cumulative Heat Summations - 1977  
 (Figures are in Degree-Days)

AREA AND VINEYARD		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	
<u>SANTA MARIA</u>									
West Mesa Vineyard (Jensen)	Monthly	127	187	385	433	517	440	377	
	Cumulative		314	699	1132	1649	2089	2466	<u>I</u>
East Mesa Vineyard (Fleisher)	Monthly	250	221	472	519	589	529	451	
	Cumulative		471	943	1462	2051	2580	3031	<u>low III</u>
Sisquoc River Vineyard (SMV)	Monthly	166	168	367	449	501	430	316	
	Cumulative		334	701	1150	1651	2081	2397	<u>I</u>
COMPOSITE Santa Maria Area	Monthly	181	192	408	467	536	466	381	
	Cumulative		373	781	1248	1784	2250	2631	<u>II</u>
R. Goodchild Vineyard	Monthly	214	164	308	421	547	403	353	
	Cumulative		378	686	1107	1654	2057	2410	<u>I</u>
<u>SHANDON</u>									
San Juan Vineyard	Monthly	165	178	525	627	679	472	395	
	Cumulative		343	868	1495	2174	2646	3041	<u>III</u>
<u>SAN LUIS OBISPO</u>									
Edna Valley Vineyard (West End)	Monthly	132	142	321	447	522	415	350	
	Cumulative		274	596	1043	1565	1980	2330	<u>I</u>
Edna Valley Vineyard (East End)	Monthly	100	154	362	468	531	451	369	
	Cumulative		254	616	1084	1615	2066	2435	<u>I</u>
COMPOSITE San Luis Obispo Area	Monthly	116	148	342	458	526	433	360	
	Cumulative		264	606	1064	1590	2023	2383	<u>I</u>

TEPUSQUET AND SANTA MARIA VINEYARDS

Monthly and Cumulative Heat Summations - 1976  
(Figures are in Degree-Days)

AREA AND VINEYARD		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	
<u>SANTA MARIA</u>									
West Mesa Vineyard (Jensen)	Monthly	139	322	459	442	506	516	464	
	Cumulative		461	920	1362	1868	2384	2848	<i>II</i>
East Mesa Vineyard (Fleisher)	Monthly	170	307	498	491	537	575	531	
	Cumulative		477	975	1466	2003	2578	3109	<i>III</i>
Sisquoc River Vineyard (SMV)	Monthly	145	317	490	534	525	547	477	
	Cumulative		462	952	1486	2011	2558	3035	<i>III</i>
COMPOSITE SANTA MARIA AREA	Monthly	151	315	482	489	523	546	491	
	Cumulative		466	948	1437	1960	2506	2997	<i>hi II</i>
R. Goodchild Vineyard	Monthly	146	318	444	424	448	430	432	
	Cumulative		464	908	1332	1780	2210	2642	<i>II</i>
<u>SHANDON</u>									
San Juan Vineyard	Monthly	73	343	496	649	529	520	321	
	Cumulative		416	912	1561	2090	2610	2931	<i>hi II</i>
<u>SAN LUIS OBISPO</u>									
Edna Valley Vineyard (West End)	Monthly	150	255	420	461	452	410	429	
	Cumulative		405	825	1286	1738	2148	2577	<i>lo II</i>
Edna Valley Vineyard (East End)	Monthly	160	265	434	467	480	478	408	
	Cumulative		425	859	1326	1806	2284	2692	<i>lo II</i>
COMPOSITE SAN LUIS OBISPO AREA	Monthly	155	260	427	464	466	444	419	
	Cumulative		415	842	1306	1772	2216	2635	<i>lo II</i>
State Weather Station (Center - EVV)	Monthly	147	251	413	432	437	455	449	
	Cumulative		398	811	1243	1680	2135	2584	<i>lo II</i>

TEPUSQUET AND SANTA MARIA VINEYARDS

Monthly and Cumulative Heat Summations - 1975  
(Figures are in Degree-Days)

AREA AND VINEYARD		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	
<u>SANTA MARIA</u>									
West Mesa Vineyard (Jensen)	Monthly	62	184	329	426	458	436	282	
	Cumulative		246	575	1001	1459	1895	2177	<u>I</u>
East Mesa Vineyard (Fleisher)	Monthly	62	291	382	436	455	445	359	
	Cumulative		353	735	1171	1626	2071	2430	<u>I</u>
Sisquoc River Vineyard (SMV)	Monthly	69	204	323	398	430	442	330	
	Cumulative		273	596	994	1424	1866	2196	<u>I</u>
COMPOSITE Santa Maria Area	Monthly	64	226	345	420	448	441	324	
	Cumulative		290	635	1055	1503	1944	2268	<u>I</u>
R. Goodchild Vineyard	Monthly	33	213	291	401	401	390	291	
	Cumulative		246	537	938	1339	1729	2020	<u>I</u>
<u>SHANDON</u>									
San Juan Vineyard	Monthly	44	360	515	707	658	657	270	
	Cumulative		404	919	1626	2294	2951	3221	<u>III</u>
<u>SAN LUIS OBISPO</u>									
Edna Valley Vineyard (West End)	Monthly	68	248	395	451	547	463	275	
	Cumulative		316	711	1162	1709	2172	2447	<u>I</u>
Edna Valley Vineyard (East End)	Monthly	44	251	389	379	514	604	354	
	Cumulative		295	684	1063	1577	2181	2535	<u>10 II</u>
COMPOSITE San Luis Obispo Area	Monthly	56	250	392	415	531	533	315	
	Cumulative		306	698	1113	1644	2177	2492	<u>I</u>

TEPUSQUET AND SANTA MARIA VINEYARD

Monthly and Cumulative Heat Summations - 1974  
(Figures are in Degree-Days)

AREA AND VINEYARD		<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	
<u>SANTA MARIA</u>									
West Mesa Vineyard (Jensen)	Monthly	112	242	361	456	484	435	291	
	Cumulative		354	715	1171	1655	2090	2381	I
East Mesa Vineyard (Fleisher)	Monthly	258	278	406	491	498	475	328	
	Cumulative		536	942	1433	1931	2406	2734	II
Sisquoc River Vineyard (SMV)	Monthly	156	214	372	548	490	376	305	
	Cumulative		370	742	1290	1780	2156	2461	I
COMPOSITE Santa Maria Area	Monthly	175	245	380	498	491	429	308	
	Cumulative	—	420	800	1298	1789	2218	2526	10 II
R. Goodchild Vineyard	Monthly	142	199	347	472	438	392	374	
	Cumulative		341	688	1160	1598	1990	2364	I
<u>SHANDON</u>									
San Juan Vineyard	Monthly	133	310	548	719	653	578	230	
	Cumulative		442	990	1709	2362	2940	3171	III
<u>SAN LUIS OBISPO</u>									
Edna Valley Vineyard (West End)	Monthly	216	262	407	534	544	539	217	
	Cumulative		478	885	1419	1963	2502	2719	II
Edna Valley Vineyard (East End)	Monthly	198	209	340	429	430	405	195	
	Cumulative	—	407	747	1176	1606	2011	2206	I
COMPOSITE San Luis Obispo Area	Monthly	207	236	374	482	487	472	206	
	Cumulative		442	816	1298	1785	2257	2463	I