## Santa Rosa (Japanese) Plum Bud Stages & Critical Temperatures



Fig. 1. Stage 1, 'First Swell'.



Fig. 5. Stage 5, 'First White'.



Fig. 2. Stage 2, 'Side White'.



**Fig. 3.** Stage 3, 'Tip Green'.

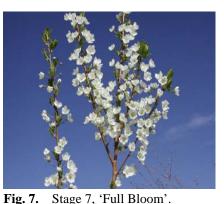




Fig. 4. Stage 4, 'Tight Cluster'.



Fig. 8. Stage 8, 'Post Bloom'.

Critical temperatures (° F) for European prune plum fruit buds\*. [Data for Santa Rosa Plum unavailable.]

Fig. 6.

Stage 6, 'First Bloom'.

Bud Development Stage	1	2	3	4	5	6	7	8
Ave. Temp. for 10% Kill	14	17	20	24	26	27	28	28
Ave. Temp. for 90% Kill	0	3	7	16	22	23	23	23

\* Temperatures from researchers at Washington St. University's research center, Prosser (1964-76). Mortality is based on 30 minute exposure to the critical temperature given for that level of bud kill. Values are intended for use only as a general guideline of when to begin frost protection efforts. Actual bud kill will vary with the bud stage, cold intensity (temperature), and duration (how long the temperature remains at a given level). The actual stage is defined by the most advanced buds in the sample, and the 10% and 90% numbers reflect the entire sample. Caution is advised -- it is dangerous to attribute too much precision to critical temperature data.

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