

**COOPERATIVE EXTENSION
UNIVERSITY OF CALIFORNIA**

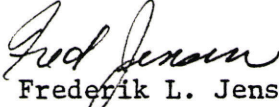
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SAN JOAQUIN VALLEY
AGRICULTURAL RESEARCH
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May 10, 1979

To: D. Luvisi H. Andris
 B. Peacock G. Leavitt
 P. Christensen A. N. Kasimatis


From: Frederik L. Jensen
 Extension Viticulturist

Re: GA on Wine Varieties

Enclosed are flower cluster counts following GA treatments. Only Carignane and Chenin blanc were treated in 1978 and we have retreated these two varieties in 1979.

No variety shows any adverse effect of GA treatment in 1979. Barbera, treated only in 1977, has cluster counts which do not differ significantly from one another. Petite Sirah, also treated in 1977, has significantly higher flower cluster counts in all GA treatments.

The Carignane and Chenin blanc show no difference in cluster counts this spring. We will follow their progress next spring.

There is obviously much more to understand about GA on wine varieties. It reduces flower cluster counts following usage some years but not others, and on some varieties but not others.

I do not intend to do more work on this problem except for the flower cluster counts next spring unless some of you believe further trials are warranted.

FLJ:sf

Enclosures

KHFS - GA on Wine Varieties

Table 1. Effect of prebloom gibberellin applications on number of flower clusters on Chenin blanc.

	GA ppm			Flower clusters per vine		
	1977	1978	1979	1978	1979	1980
1.	0	0	0	91a	74a	
2.	5	5	5	65 b	86a	
3.	10	10	10	53 c	74a	
4.	0	0	0	88a	76a	
5.	0	5	5	88a	76a	
6.	0	10	10	86a	72a	
7.	0	0	0	87a	75a	
8.	0	0	5	91a	78a	
9.	0	0	10	87a	75a	

Table 2. Effect of prebloom gibberellin application on number of flower clusters on Carignane.

	1977, 1978, and 1979 GA ppm	Flower clusters per vine		
		1978	1979	1980
1.	0	79a	78a	
2.	2½	72ab	93a	
3.	5	68 b	82a	
4.	5 + TB1956	65 b	87a	

Table 3. Effect of prebloom gibberellin application on number of flower clusters on Barbera.

	1977 only GA ppm	Flower clusters per vine	
		1978	1979
1.	0	63a	56a
2.	2½	43 b	65a
3.	5	35 c	64a
4.	7½	32 c	67a

Table 4. Effect of prebloom gibberellin application on number of flower clusters on Petite Sirah.

	1977 only GA ppm	Flower clusters per vine	
		1978	1979
1.	0	50a	39a
2.	5	20 b	92 b
3.	10	17 b	104 b
4.	10 + TB1956	11 c	97 b

NOTE: All vines treated with GA in 1977 had much greater vigor in the spring of 1979. The check vines were obviously weakened by their crop load. They had many sterile shoots and smaller fruit clusters than GA-treated vines.

Rates per acre - 100 gallons or less.

Triton B1956 used at rate of 2 oz/100.