

# CONCORD, MOORE, AND CAMPBELL GROWN ON VIGOROUS ROOTSTOCKS IN MISSOURI

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In this report the growth and yield of Concord, Moore and Campbell on 23 different rootstocks are compared with those same varieties grown on their own roots. Growth and yield data are reported beginning with the sixth year and continuing through the twelfth year of age (1939-1945 inclusive). The vineyard was located on a medium fertile gravelly soil with a gravelly-clay hardpan 6 to 8 inches below the surface.

Compared to plants on their own roots, vines of the Moore variety yielded 89 per cent more fruit on the three best

rootstocks (U.S.D.A. No. 125-1, U.S. D.A. No. 3309 and Constantia). On these same vigorous roots Campbell vines produced 342 per cent more fruit than own-rooted plants and Concord produced 35 per cent more than on its own roots.

It is interesting to note that the favorable influence of the vigorous root is more pronounced on Campbell which is ordinarily the least productive, and much less effective on the Concord which is usually more productive than either Moore or Campbell.

The following table contains average figures for the 7 year period 1939-1945) for those readers who are interested in more accurate comparison.

	MOORE		CAMPBELL		CONCORD	
	Yield, pounds per vine	Percent over own rooted	Yield, pounds per vine	Percent over own rooted	Yield, pounds per vine	Percent over own rooted
Own Roots	7.5		5.0		18.2	
U. S. D. A. 125-1	16.6	121	24.8	396	22.9	26
U. S. D. A. 3309	13.6	81	21.8	336	25.1	38
Constantia	12.4	65	19.7	294	25.6	41
U. S. D. A. 219-A	11.6	55	18.3	266	23.8	31
U. S. D. A. 420-A	11.6	55	18.0	260	18.9	4
U. S. D. A. 106-8	9.9	32	20.5	310	20.4	12
Rupestris	10.7	43	17.8	256	20.7	14

W.P.J.

