

CONTROL OF RED MITE AND BLACK-SPOT.

SPECIAL CLUSTER-BUD SPRAYING.

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FURTHER series of experiments were conducted at the Arataki Horticultural Station during the past season to ascertain the value of oil and lime-sulphur sprays for the control of red mite on apple-trees, when applied at reduced strengths late in the season, commencing from the period of pronounced bud-movement up to the time that the buds were in the advanced-pink stage. Bordeaux was also applied prior to the oil as a check against lime-sulphur for the control of black-spot.

The bordeaux was in each instance followed the same day by oil. The main purpose of this was to ascertain whether bordeaux was by this means made more efficacious and lasting in its effects, and at the same time to ascertain how late the combined spray could be applied with safety. Lime-sulphur was used on the sister trees at the same strength as the oil. Particulars are indicated in the following outline of the experiments:—

Plot	Row	Treatment.	Period applied.
Plot 1—	1.	Bordeaux, 6-4-50, and oil, 1-15	.. Just after bud-movement.
	2.	Lime-sulphur, 1-15 ..	.. ..
	3.	Bordeaux, 6-4-50, and oil, 1-20	.. ..
	4.	Lime-sulphur, 1-20 ..	.. ..
Plot 2—	5.	Bordeaux, 6-4-50, and oil, 1-25	.. Tight cluster.
	6.	Lime-sulphur, 1-20 ..	.. ..
	7.	Bordeaux, 6-4-50, and oil, 1-25	.. ..
	8.	Lime-sulphur, 1-25 ..	.. ..
Plot 3—	9.	Bordeaux, 6-4-50, and oil, 1-30	.. Pink.
	10.	Lime-sulphur, 1-30 ..	.. ..
	11.	Bordeaux, 6-4-50, and oil, 1-40	.. ..
	12.	Lime-sulphur, 1-40 ..	.. ..
Plot 4—	13.	Bordeaux, 6-4-50, and oil, 1-45	.. ..
	14.	Lime-sulphur, 1-45 ..	.. ..
	15.	Bordeaux, 6-4-50, and oil, 1-50	.. Advanced pink.
	16.	Lime-sulphur, 1-50 ..	.. ..
Plot 5—	17.	Bordeaux, 6-4-50, and oil, 1-60	.. ..
	18.	Lime-sulphur, 1-60 ..	.. ..
	19.	Bordeaux, 6-4-50, and oil, 1-30	.. ..
	20.	Oil, 1-30 ..	.. ..
Plot 6—	21.	Bordeaux, 6-4-50, and oil, 1-25	.. Open cluster.
	22.	.. 6-4-50, .. 1-25	.. Advanced pink.
Plot 7—	23.	.. 6-4-50, .. 1-30	.. Open cluster.
	24.	.. 6-4-50, .. 1-30	.. Advanced pink.
Plot 8—	25.	Oil, 1-30 ..	.. Open cluster.
	26.	.. 1-30 ..	.. Advanced pink.