

he less costly 2,4-D, were sprayed with of 2½, 5, 10 and 15 million. The crystals were dissolved before adding to water containing a solution of Valsol as 1. The spray was applied at 30 pounds pressure. The experimental were sprayed, the ground were a which had dropped before. These were 1 discarded. Subsequent dropping were at 7, five weeks after 12 days later—August time the fruit ripe and was shown on the trees.

Heavy Test with 2,4-D at 100 lbs. pressure. Ave. No. Total drops from per tree July 5, Aug. 1 Aug. 10 Aug. 15

ms of five ppm and the eliminated drop-ppm the spray was for a period of five rich time the fruit ly be harvested and ly effective for an days.

active drops between August 19 were only those from the non-

7, when the fruit ly have been har- for of the pears from

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GEN 20-0-0

ASH 0-0-10

0c Gal.

GROWERS!

HATE 0-20-0

10 Gal.

ASH 0-0-10

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GEN 20-0-0

0c Gal.

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per gallon

ity Discounts

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formance, 1949 ridg- RIDGERS good, high se popular lutely no

CO,

tain View, Calif.

than five ppm have been found by other research workers to result in noticeable injury to leaves and buds of Bartlett pear trees. No free injury was observed in the Davis trials during the growing season in which the spray was applied.

Concentrations of 10 and 15 ppm, however, showed injury later. At the time of pinning in March, 1948, severe damage was noted on the previous season's growth and on the fruit spurs. Most of the new wood was killed.

By April 15, when the unsprayed trees were in leaf and in bloom, the

their action and considerable time may elapse between their application and any possible injurious effects.

During the past season the trials were extended to three commercial orchards—one near Walnut Grove in Sacramento County and two in the Santa Clara Valley.

In each orchard the materials used consisted of 2,4-D, its sodium salt and the isopropyl ester, applied at concentrations of one and two ppm only.

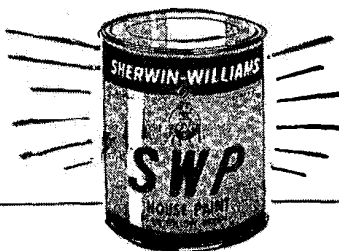
In the Walnut Grove orchard the crop was light and no drop occurred even from the unsprayed trees.

picking of the sprayed fruit showed considerably more breakdown after 30 days in storage than did the unsprayed.

Somewhat more breakdown occurred in pears sprayed with the solution of two ppm than those sprayed with half this concentration.

No significant differences appeared in the results from the use of the three forms of the 2,4-D used.

At least another year's work is regarded as necessary before any recommendations are justified for the use of 2,4-D on Bartlett pears.



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