

TABLE 2

Group	No. of trees	Sprayed with bor. mix. 3-3-50	Sprayed with bor. mix. 3-3-50	Sprayed with bor. mix. 4-4-50	Sprayed with bor. mix. 4-4-50	Percent of infected fruit
1	4	Mar. 23	Apr. 21	May 21	June 22	1.6
2	4	Mar. 23	Apr. 21	May 21	.....	5.
3	4	Mar. 23	Apr. 21	.....	.....	1.2*
4	4	.....	Apr. 21	May 21	June 22	2.6
5	4	.....	Apr. 21	May 21	.....	2.6
6	4	.....	Apr. 21	.....	.....	18.
7	4	.....	.....	May 21	June 22	60.
8	4	.....	.....	May 21	.....	97.
9	4	.....	.....	.....	.....	84.

*There were practically no fruit on these trees this season.

The trees in Group 1 were sprayed four times during the season. The first application was made March 23, about the middle of the blooming period, and was sprayed directly into the open bloom. A second spraying was made April 21. The 3-3-50 bordeaux mixture was used in the first two applications. A third spraying was made May 21 and a fourth June 22, both of these being with the 4-4-50 solution.

About the first of August the fruit on these trees was examined and noted for black spot and blotch. Only 1.6 percent of the fruit from the trees in this group showed any spotting and this to only a slight extent.

The results from a single tree in this group demonstrated clearly the effectiveness of bordeaux mixture in preventing the spotting of the fruit. This tree had been observed for two or three seasons and the mature fruit always was affected badly with black spot and blotch. Little of the fruit was of a marketable character, altho the tree bore a good crop each season. At the end of the experiment this season (1920), the fruits on the tree were carefully examined, but not a single one showed any indications of black spot or blotch. Fully 90 percent of the fruit on this tree the year before was more or less affected by these diseases.

Trees in Group 2 received three applications of bordeaux mixture during the season, as indicated in table 2. On August 1 the fruit was examined and 5 percent was found slightly spotted. This increase in percentage of infected fruit over that of Groups 1, 4 and 5 is due probably to the failure to spray thoroly the fruit in the top of the taller trees.