midwest. The Experiment Stations in Minnesota, Illinois, Missouri and Iowa have hundreds of these selected seedlings. Some first class apples should emerge as a result of the breeding programs of these states.

FROST INJURY TO BLUEBERRIES

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Cultivated blueberries are often subject to low spring temperatures which injure or kill some of the buds or blossoms. Therefore, varietal susceptibility or resistance to spring frosts is of considerable importance. In the spring of 1949 an opportunity occurred at Amherst to get some information on this question.

On the night of April 28 the temperature dropped to 21° F. in a variety planting of mature bushes ranging in age from 15 to 17 years. The bushes were growing in sod which has been previously heavily mulched with hay and liberally fertilized so that the bushes were in fairly vigorous condition. The first blossoms opened on Cabot on April 30. On May 4, 10 buds on each of 5 bushes of each variety were cut with a razor blade and the percent injury estimated on the number of buds which contained injured blossom buds. Results are given in Table 1.

Table 1. Percentage of buds injured by 21° F. on April 21, 1949

Concord	10
Rubel	13
Rancocas	22
Cabot	28
Scammell	32
Stanley	42
Pioneer	44
Pemberson	52
Wareham	74

In another planting about 150 feet from this variety block and at practically the same level are a number of U. S. D. A. selections together with Rubel and Concord for comparison. The bushes are three to four years old and most of them had set fruit buds for their first real crop. The planting has been mulched with sawdust and liberally fertilized so that the bushes had made a vigorous growth in 1948. The percentage of injured buds is given in Table 2.

Table 2. Percentage of buds injured by 21° F. on April 28, 1949

Variety	No. of bushes	Pct. of Injury
Rubel	8	4
Concord	5	4
Berkeley (U-85)	5	85
Coville (DN-76)	7	35
DK-71	6	23
GN-87	3	3
A-91	6	36
V-20	3	52
F-72	5	32
V-25	4	50
X-58	4	60
BM-22	2	55