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Late Blight of Potatoes

ATE Blight makes its presence in the fields known when the vines are about 10 inches high. The are about 10 inches high. The disease first appears on the under surface of the leaf. The best time to detect this disease is early in the more disease that the surface of the leaf. The best time to detect this disease is early in the more disease that time all gift growths of white mould will be seen, which disappears as the temperature of the day increases. These growths will be found on brownish-black spots, somewhat irregular in outline and occurring in the beginning near the edge or the leaf. As the disease becomes more intense, it spreads over the entire vine. The result of this disease is early death of the vines, a small yield of potatoes and rotting in the bin of potatoes from, diseased vines. Spraying the vines prevents Late Blight. Bordeaux mixture has been found the most efficient mixture. The kenne-made mixture is by far better home-made mixture is by far better than the prepared mixtures sold on the market. Substitutes for Bordeaux mixture, such as lead arsenate and sulphur have been found unsatisfac-

The principle involved in the use The principle involved in the use of a spray to prevent blight is based apon the method of the spread of these diseases. The small germs, causing the blight, are blown by the wind from field to field and from plant to plant. The germs fall on the leaves and there germinate. A thin film of Bordeaux mixture on the surface of the leaf will kill the germ when it alights and thus prevents disease.

tory. Lead arsenate is slow in ac-tion and often clogs the spray noz-

Making Bordeaux Mixture
The usual formula for the preparation of Bordeaux mixture is five
pounds of copper sulphate (blue stone)
and five pounds of stone lime to 50
gallons of water. The two chemicals
must be dissolved separately. The
weights should be accurate. Guess work often causes more harm than good. First dissolve the copper sul-phate in about ten gallons of water, phate in about ten gailons of water, and then dilute the solution to make up 25 gallons. Then in another tank slake the lime before making an attempt at forming a solution. Then allow the lime to dissolve in water gradually bringing the solution up to 25 gallons. Then stir in the lime

gradually bringing the solution up to 25 gallons. Then stir in the lime solution and pour into the copper subplate solution. This process requires two tanks capable of holding at least 25 and 50 gallons.

Paris green can be added to the copper sulphate and lime mixture, which will kill insects. Usually from one to two pounds of Paris green for every 50 gallons of Bordeaux mixture is used. In this manner, one spraying can be made to serve a double purpose.

Applying the Spray
An even distribution of Bordeaux
on the surface of the leaves is highly important. To obtain the best rely important. To obtain the best results the spray machine should provide a constant high pressure and the non-steady of the source of the sou

The use of Bordeaux not only prevents blights, but also stimulates potato vines to greater starch production. to vines to greater starch production. This is brought about by a prolonga-tion of the life of the vines. Three successive sprayings during one sea-son will prolong the life of the vines for two weeks. This length of time during the most important period of the life of the vines mean an appreciable increase in yields. In years when blight has not occurred, sprayed fields have yielded a profitably larger crop than unsprayed fields.

Summer Pruning

By E. P. Sandsten.

THE importance of summer prun-ing young apple trees, is little understood by many fruit grow-ers. The habit has become so firmly fixed that all pruning is invariably done during the late winter or early spring months.

While winter pruning will always be most important, because less injury is done to the trees at this season, especially to old bearing trees, yet for the best success with young trees, summer pruning should be as regularly performed as winter pruning. After the shape of the tree has been obtained through winter prun-ing, the filling out of the branches and the trunk should be accomplished

by summer pruning.

This is especially true during the fourth and fifth year after planting. As a rule, most fruit growers prune their young trees too heavily commended to the property of th during these years. Growth becomes too excessive, especially in ampth, and the branches do not become properly braked at the crotches of the tree. If summer pruning is done between the middle and the latter part of June, when the growth in length has reached from 12 to 15 inches, by cutting off the terminal buds, it will invariably check the growth in length and increase the thickness of the trunk and branches. Further, it tends during these years. Growth becom trunk and branches. Further, it tends to produce fruit spurs by checking the

flow of sap.
Thinning Fruit Spurs Summer pruning may also be practiced on older or bearing trees in connection with the thinning of the fruit. In this case there is very little occa-sion for cutting and pinching off the terminal shoots, as older trees make little or no wood growth, and cutting out a number of fruit spurs will give

out a number of fruit spurs will give a larger amount of food supply for the remaining ones and the size of the fruit borne is greatly increased. Many orchardists are troubled with over-bearing, that is, most of our trees have too many fruits, making it difficult to obtain the proper size. While thinning the applied by removing them after the Iruit is set is a remedy against over-bearing, yet this is less efficient than the actual removal of a certain number of fruit spurs. In cutting out the fruit spurs, they should be cut off close to the branches, and in such manner as to leave the remaining spurs well distributed on the branches. the branches.

The time for this kind of thinning

The time for this kind of thinning or summer pruning, is after the ap-ples are well formed and the June drop is past. The operator can then gauge the number to be removed or left, without any difficulty. A pair of light pruning shears is the best tool for this purpose

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