The Canadian Horticulturist

Vol. XXXVI

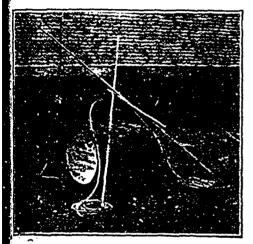
FEBRUARY, 1913

No. 2

A Few Spraying Notes for Beginners

A. G. Turney, Provincial Horticulturist, Fredericton, N. B.

THE initial cost of a pump and outfit deters many persons from spraying their orchards although it is very small as compared with the profits obtainable as a result of intelligent spraying. In purchasing be sure and



A Barrel Outfit, Unmounted

secure a pump of large enough capacity to do all the work required in the least possible time. Remember that the extra amount of time and labor required to spray an orchard with a small pump may in one or two years more than exceed the extra first cost of a larger pump. An outfit such as is itemized below is large enough for an orchard of one hundred to one hundred and fifty trees. The catalogue prices, on which there may be a small discount, are approximately as follow:

50.2, all brass pump textra if percelain liaed; S15.00 1. Veinch hose, with connections, stop cock 9 ft hamboo extension rod and
#ft Euch hose, with connections, stop cock 9 ft hamboo extension rod and double nextle
Lorated on barrel on skids, extra 2.50
\$23.00

This amounts to about twenty-five cents a tree first cost for an orchard of one hundred trees. This cost may be charged to the orchard for six years, the life of a pump under fairly favorable conditions, and allowing four dollars forty cers, for repairs during that time, then the cost only amounts to five dollars a yellow for the whole orchard. Spray caterials cost about as follows in New Bronswick:

RETAIL PRICES IN FREDERIOTON	
(APPROXIMATE)	
Concentrated lime-sulphur per 40-gallon cask \$8.75 Concentrated lime-sulphur per 20-gallon cask 4.75	
Lord argentate, per single pound	
Lead arsenate per 5 pounds	
Lead arsenate per 25 pounds	
Lead arsenate per 50 pounds	
Load arsenate per 100 pounds .12	
Paris Green per single pound . 25	
Bluestone per single pound	
Bluestone per 50 pounds 08 Limo per 100-pound cask	
Lime per 100-pound cask 001/2	
Then the cost of sprays ready for use,	
counting water free are as follows:	
WHITE SPRAYS	
4 gallons concentrated lime-sulphur at 220 853	
36 gallons of water	
Total cost per barrel of spray 880	
SUMMER SPRAY OF POISONED LIME SULPHUR	
1 gallon concentrated lime-sulphur at 220 22c	
2 lbs. lead arsenate (in 5 lbs. lots) at 20c 40c	
B gallons of water 00c	
Total cost per barrel of spray 62c	
Note.—The cost of the lead arsenate	
would be considerably less if purchased	
in larger quantities (see table of prices).	
BUMBLER SPRAY OF POISONED BORDEAUX	
4 lbs. bluestono at 100	
4 lbs. lime at ½c	
130 % gallons water	
A ESHARD MENAL ON	

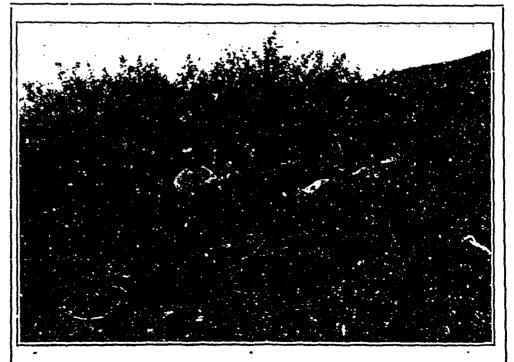
Total cost per barrel of spray 550
Time applying spray 1½ hours per barrel.
Two men and horse 1½ hours 660
No provision is made in the oregoing
for the cost of mixing solutions and

filling up the bairel. In spraying very large trees a small spraying tower of some sort will be necessary and can be very easily made at home at a small cost.

HOW TO SPRAY

Spraying should in nearly every case be done with the wind. When spraying the first side of large trees, stop the wagon or spray cart just as it comes within a few feet of the tree and spray the nearest side as far in and as completely as the spray coa be driven; then, drive directly opposite and spray all the central parts thoroughly, then, move just past the tree and spray the last part as far in as possible. In this way, nearly two-thirds of the tree will be covered and when the wind changes it will be easy to complete the spraying from the other side. A very strong wind wastes a little of the mixture, but it is very seldom that there is any need of ceasing operations because of its violence. In spraying small trees it will not be necessary to stop so long at each tree.

Go through the orchard as soon as the spray has dried on the trees, and if you notice limbs or portions of the trees here and there that have been missed,



The Barrel Outfit, Mounted, Used in the New Brunswick Demonstration Orchard Work