

## UGGESTIONS IN REGARD TO SPRAYING FOR THE PREVENTION OF FUNGOUS DISEASES DURING 1893.

BY JOHN CRAIG,

*Horticulturist, Central Experiment Farm, Ottawa.*

### GENERAL CONSIDERATIONS.

Spraying with arsenites for the prevention of insect attacks has, by progressive fruit growers, become a recognized necessity and is now widely practised. Spraying with copper compounds for the prevention of fungous diseases is rapidly gaining favor and the value of the remedies recommended has been demonstrated by the orchardist, as well as the experimentalist.

Fungous diseases will in all probability increase in proportion as the food plants upon which they prey are multiplied, and as climatic and other conditions are favourable to their development. Spraying, therefore, must be resorted to, and in order to derive the greatest benefit, it should be generally practiced. The value of the efforts of one man who faithfully sprays his orchard is greatly lessened if his neighbour neglects preventive measures and so allows his orchard to serve the purpose of a breeding ground for the spores of fungous diseases such as pear and apple "scab."

In consideration of the importance of making a united and persevering effort with the object of keeping in subjection those parasites which prey upon our fruit trees and plants, thus diminishing their vitality and lowering the quantity and quality of products, this circular is addressed to the farmers and fruit growers of the Dominion with the hope that they will follow out as far as possible the suggestions contained therein.

### HOW TO SPRAY.

As the treatment is entirely preventive, in order to make spraying effective it must be commenced early. All parts of trees or plants must be reached with the preventive agent. Drenching is not necessary and is expensive. A thin film or coating of the fungicide deposited upon the foliage will prevent the development of the spores as well as a complete soaking; but it is important that all the leafy surface should be wetted at least on the upper side. For orchard work a good force pump, which may be fitted into a barrel—side or end—will give

satisfaction.  
which will  
ent force to  
nozzle is a v

Some fa  
may be enu  
spraying for  
new lines of  
as impractic  
of the year—  
implements  
when requir  
adaptation o  
the spraying

To obvia  
of a co-opera

First, wh  
and purchase  
if it were po  
vidual, who  
additional ac  
be made as

A comple  
by a person  
acre, or at a  
fungous and  
the prejudice  
spraying wou  
ists, become

### 1. Dilut

Co  
Li  
Pe  
W

This may  
powdered Coj