## INSECTICIDES.

## PARIS GREEN AND BORDEAUX MIXTURE.

Four pounds of fresh lime, 4 pounds of bluestone, and 4 ounces of Paris green, thoroughly mixed in 40 gallons of water. In all eases where spraying with Paris green is recommended in the foregoing pages it is advisable to add the bluestone (or Bordeaux mixture) in order to counteract fungus diseases at the same time as the insects are destroyed. The bluestone (cepper sulphate) should be dissolved by suspending it in a wooden vessel containing 4 or 5 gallons of water, and the lime slaked in another vessel; if lumpy, the lime should be strained through coarse sacking. Pour the bluestone solution into a barrel and half fill with water; dilute the slaked lime to half a barrel and mix the two together. The Paris green should be made into a paste with warm water, poured into the barrel and stirred thoroughly. The mixture is then ready for use. The additate of the lime presents the poison from scorehing the foliage.

For garden purposes one teaspoonful each of Paris green and lime in a pail of

water may be used.

ıd

ge

118

n-

ed

es to

he

re r-

he

in to

of

ige

eet

its

ere

ion

ses

m-

is

ler

our

ers.

.eks

the

irst

iips

da

the

ter,

the

nieh

ung

## ARSENATE OF LEAD.

Arsenate of soda	10	ounces.
Acetate of lead	24	ounces.
Water150-	200	gallons.

"The arsenate of soda and the acetate of lead (sugar of lead) should be dissolved separately and then poured into a tank containing the required amount of water. A white precipitate of lead arsenate is immediately formed, and when thoroughly stirred is ready for spraying. Its finely divided condition keeps it in suspension for hours and thus simplifies the work of spraying. The preparation may be used several times stronger without the least danger of scorching the most delicate plants. When sprayed upon the foliage it forms a coating which adheres so firmly that it is but little affected by ordinary rains." (Bulletin 154, Harcourt and Fulmer). For use in small quantities, one tablespoonful of the paste arsenate is enough for one gallon of water.

## KEROSENE EMULSION.

The following is the formula recommended by Dr. Fletcher (Central Experimental Farm, Bulletin No. 52):

 Kerosene (coal oil)
 2 gallons.

 Rain water
 1 gallon.

 Soap
 ½ pound.

Boil the soap in water till all is dissolved; then, while boiling hot, turn it into the kerosene and churn the mixture constantly and forcibly with a syringe or force pump for five minutes, when it will be of a smooth, creamy nature. If the emulsion is perfect, it will adhere to the surface of glass without oiliness. As it cools it thickens into a jelly-like mass. This gives the stock emulsion, which must be diluted with nine times its measure of warm water before using on vegetation. The above quantity of three gallons of emulsion will make 30 gallons of wash.

Kerosene, emulsion may also be made conveniently by using an equal amount conveniently by using a convenient co

ame time to get the stock emulsion.

Another method is to use lime, which will hold the kerosene in suspension, or

the Illowing, where lime cannot be obtained:

The requisite amount of kerosene is placed in a dry vessel and flour added in the proportion of 8 ounces to one quart of kerosene. It is then thoroughly stirred and two gallons of water added for every quart of kerosene. The whole is then vigorously churned for from two to four minutes, and the emulsion is ready for use. It has been found that by scalding the flour before adding the kerosene, an