

For tall shade trees: The Bonanza Double-Acting Spray Pump, The Deming Co., Salem, O.; The Deming Premier Power Sprayer, by the same firm; The Triplex Power Spraying Outfit, Goulds Manufacturing Co., Seneca Falls, N. Y.

For extensive field and orchard work: Power Sprayers made by the Deming Co., Salem, O.; The Goulds Manufacturing Co., Seneca Falls, N. Y.; The American Sprayer Co., Minneapolis, Minn.; The Aspinwall Four-row Potato Sprayer, Aspinwall Manufacturing Co., Jackson, Mich.

One contemplating getting an outfit for one or another purpose should send for the price lists of these dealers and choose that most nearly suiting his needs.

INSECTICIDES.

The materials used in spraying should always be of good quality. A Paris green must, to give the results assumed by the directions given below, contain the equivalent of about fifty per cent. of arsenious oxid. A good arsenate of lead paste should contain not less than twelve and a half per cent. of arsenious oxid, and should not contain more than fifty per cent. of water. Pyrethrum should not be very old, and cannot be expected to be very effective if it has been kept in an open package. Soaps contain very various amounts of effective ingredients. A good caustic potash whale-oil soap is as likely as any to be constant in composition and thus to give the same results each time when made up by a given formula.

Failure to get satisfactory results is probably in some cases the result of using poor or adulterated materials, though my experience in Kentucky indicates that fraud has been less frequently practised in this State than it has in some others.