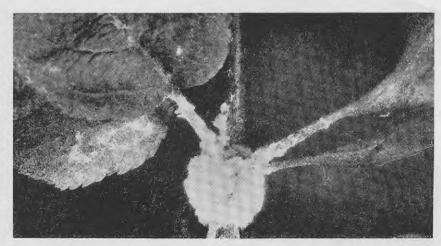
Insect Pests

It is important to inspect trees and berry canes periodically to check for insect pests. More than a casual glance is needed, and it will add interest to the job if the home orchardist owns a small hand lens. This can be obtained for a few shillings and is invaluable for detecting early outbreaks of red spider or the eggs of other insects.

The following descriptions of the main insect pests should help home orchardists to identify the various pests and thus to apply the effective sprays.

Codling Moth

The codling moth, a chewing insect, is the most troublesome with which home orchardists have to contend. This



[A Shell photograph Woolly aphid infection on an apple twig, showing the typical waxy threads secreted by the pest.

Sprays for Control of Insect Pests and Diseases in the Home Orchard

Pest or disease

mildew, codling moth, bronze

AP	PIES	AND	PEARS

Time of application Buds showing green tips

Petal fall

†3 weeks later

Bordeaux mixture (6oz. of Black spot copper sulphate and 5oz. of hydrated lime to 4 gallons of water) or lime sulphur (12 pints to 4 gallons of water)

*Lime sulphur and DDT (1 Black spot, powdery pint of lime sulphur plus 1/2z. of DDT 50 per cent. wettable powder to 4 gallons of water)

‡Lime sulphur and DDT (‡ Black spot, powdery pint of lime sulphur plus doz. of DDT 50 per cent. wettable powder to 4 gallons of water)

‡Lime sulphur and DDT (‡ Black spot, powdery mildew, codling moth, bronze beetle, leech

* Bordeaux mixture 3:4:50 strength (4oz. of copper sulphate and 5oz. of fresh hydrated lime to 4 gallons of water) may be used on pear trees in place of lime sulphur sprays.

† Repeat this spray at intervals of about 18 days until a month before the apples are ready to pick.

‡ If leaf-roller caterpillar is troublesome, use arsenate of lead doz. plus 2½oz. of hydrated lime to 4 gallons of water) instead of

In late spring woolly aphids may become troublesome and sprays of lindane wettable powder or emulsion may be used.

In January or February summer oil († pint to 4 gallons of water) may have to be applied to control red mites. Two sprays 10 to 12 days apart are necessary. Oil sprays must not be applied sooner than 14 days before or after sulphur sprays.

BERRY FRUITS (Except Strawberries)

Treatment Pest or disease
Bordeaux mixture (6½oz, of Leaf spot, botrytis, copper sulphate and 5oz. leaf-roller caterof hydrated lime to 4 gallons of water) plus 1oz. of arsenate of lead application Bud movement Bordeaux mixture (5½oz. of Leaf spot, botrytis copper sulphate and 5oz. of hydrated lime to 4 gallons of water)
Bordeaux mixture (as above) Leaf spot Fruit set

After harvest

STRAWBERRIES

quired at monthly intervals

Time of application Pre-planting (foliage dip)

gallons of water) Repeat above spray

Mid-August Mid-September Mid-October Repeat above spray as re- Leaf spot After harvest

Treatment Pest or disease Bordeaux mixture (3oz. of Leaf spot copper sulphate and 3oz. of hydrated lime to 4

Leaf spot

STONE FRUITS*

Time of application
Bud movement
of leaf buds

Treatment

Bordeaux mixture (6oz. of Leaf curl, shot hole, copper sulphate and 5oz. of hydrated lime to 4 gallons

Pest or disease
Leaf curl, shot hole, bladder plum, brown rot of water)

Repeat the above spray in 7 to 10 days at 4oz.: 5oz.: 4 gallons strength where leaf curl has been particularly severe in past seasons or when the weather is cold and wet after the first spray.

†Before blossoms Lime sulphur and colloidal Brown rot, sh are fully open sulphur (\frac{1}{4}\) pint of lime sulphur plus 1\frac{1}{4}\) oz. of 40 per cent. or 2\frac{1}{4}\) oz. of 25 per cent. colloidal sulphur to 4 gallons of water)

*Lime sulphur sprays should not be applied to apricots, as their foliage does not tolerate this spray. A 3:4:50 bordeaux spray (4oz. of copper sulphate and 5oz. of hydrated lime to 4 gallons of water) should be applied instead.

† Repeat at intervals of 3 to 4 weeks until 3 weeks before picking. Where leech (pear or cherry slug) is troublesome apply DDT (50 per cent. wettable powder at ½0z. to 4 gallons of water). If aphids are present, lindane emulsion (1 fl. oz. to 4 gallons of water) should be added.

Brown Rot

In home orchards where brown rot has been particularly trouble-some use of one of the newer spray materials which have shown great promise under trial may be valuable. These sprays can be used with safety on apricots. A suitable spray programme is:—

Time of application
During flowering
Season

Dichlone (\$\frac{1}{2}\to z\$. to \$\frac{1}{2}\to z\$. of Do not mix with season

50 per cent, material to summer or winter 4 gallons of water) Rest of the

season at 2-to 3-weekly intervals

Captan (loz. to 20z. of 50 Do not mix with per cent. material to 4 summer or winter gallons of water) oil, b or de a u x mixture, or lime sulphur

CITRUS TREES

Time of application Petal fall of main blossom

Treatment
Bordeaux mixture (4oz. of Verrucosis copper sulphate and 5oz. of other hydrated lime to 4 gallons diseases Pest or disease and fungous

Spray in October, November, and December with the same mixture if verrucosis has been troublesome.

plus summer oil (as above)

Early February Summer oil (1 pint to 4 Scale insects, sooty gallons of water)
Bordeaux mixture (as for Brown rot, hard petal fall of main blossom) wax scale