Chevitisompu; Chinnamundabolalo; Chipurubayyahunda; Chulakanamahipali; Co. 1.

Dasaradhilu; Dhanyarasulu; Dusisannam.

Garudavahanalu; G. E. B. 24; Gudarisannalu; Gummasari; Gunupuramrannalu.

Hemasannalu.

Kalahandisannalu; Kanakaratnalu; Kanakasompu, 9, 14; Kevitochompa; Konamani, 14, 15, 16; Kondakurangi; Kosakaddilu; Kosisompu.

Maharajabhogam; Mahipali; Molakolakulu; Muttubayyahunda; Muthusamba; Mundlavari.

Naguthalisannalu.

Palagummasari 4, 7; Panianlu; Pedda akkullu; Pedda atragada; Peshanam; Prayaga; Punasa akkullu, 3, 5, 9; Punasa-konamani, 1, 2.

Radhaprayaga; Ramagarudamsamba; Ratnachudi 5, 7, 8, 9, 11, 15; Red sirumani.

Sanna atragada; Sanna bayyahunda; Sanna akkullu; Sannavari; Sorimundabolalo; Srikrishabhogam; Sunkisannalu; Sunnapuvvulu; Suvarnamuthilu.

Tellaradhaprayaga; Tobarasulu; Turpuranna akkullu.

Vankelu; Vavilapadusannalu; Vajjhanam.

Yerrabakkalu.

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Fungus diseases of crops in the Madras Presidency.

(Concluded from M. A. S. U. Journal Vol. . . .)

SUGAR-CANE (Saccharum officinarum.)

1. Red-rot. Colletotrichum May & June Throughout falcatum Went. November. the Presidency

Transversely elongated white patches with the reddening of pith are seen when a cane is split open. The cane rots and turns sour giving rottin pine apple smell. 2. Smut.

Ustilago Sacchari Rabenh.

August February December

Throughout the Presidency

October.

The central shoot or one or more side shoots get converted into a long whip like dusty black structure which is at first enclosed in a thin papery membrane.

3. Ring-spot.

Leptosphaeria Sacchari. Van.

Breda.

August. Samalkota.

Ring like spots on the leaves with a straw coloured centre dotted with tiny black dots arranged in rows and with a reddish purple margin.

FRUIT CROPS: — MANGO (Mangifera indica.)

1. Sooty mould. Capnodium mang- November. Malabar. ferae.

A dense black sooty crust appears particularly on the upper surface of leaves.

2. Grev blight. Pestalozzia funerea December Coimbatore. (var magifera Sacc. March. Salem.

Grey spots or extended dry patches on the leaves confined to the edges and showing minute black dots on them.

3. Mildew.

Oidium sp.

Salem.

April June.

Coimbatore S. Kapara.

Ashy white powdery growth on leaves, twigs and flowers. 4. Red-rust. Cephaleuros parasiticus Karst

virescens Karst.

Orange yellow roughly circular raised patches on the upper surface of the leaves and young twigs.

ORANGE-Citrus.

1. Die back. Colletotrichum gloco June sporoides. Ponz July .

Tinnevelly Kistna

Coimbatore.

Drying up of twigs from the tip and showing black dot like pustule on the bark presenting the appearance of the branching of horns of a stag.

2. Mildew Oidium sp. June Nilgiris Coorg. Ashy powdery growth on leaves and twigs. 3. Sooty mould Meliola Sp. Goorg. Dense sooty black crust prominently on the upper surface of the leaves. 4. Scab. October Salem November: Coimbatore Tanjore. Brownish corky eruptions on fruits and twigs. GRAPE-VINE .- (Vitis vinifera). 1. Mildew Oidium Tuckeri Berk. February Combatore January ... Salem February Madura do. Coimbatore. A grey powdery growth on leaves and fruits. Fruits crack, rot and become useless. 2. Anthracnose Glocosporium am-August Salem pelophagum, Pass. September Madura Sacc. April & October. Brown slightly supken patches with raised borders resembling the eye of a pigeon occur in all green parts especially on fruits causing them to rot. Cercospora viticola August & 3. Leaf blight Madura ... Ces and Sacc October. Coimbator e Irregular brown spots on the lower surface of leaves 4. Downy-Plasmopara viticola. Japuary Salem Mildew. Berk & Curt. February Kistna November Coimbatore. Pale yellow green patches on the upper surface of leaves. 5. Rust. Uredo vitis (Schw) Fckl. November Coimbatore.

Small powdery pustules on leaves.

PLANTAIN .-- Musa sp.

I. Fruit rot. Goleosporium Musa-

rum. Cooke. et. September Godavari Mass.

Pale grey spots appear on the fruits causing them to rot.

2. Leaf spot. Macrophoma Musae January &

Salem

(Cke.) Berk. Vag. February

April.

Trichy.

Dry patches on the leaves with small black pustules on them.

3. Wilt Fusarium sp. January Madura.

Outer leaves turn yellow and wilt and the leaf stalks break. Rotting of the pseudo-stem sets in and the plant dies. The ruits ripen prematurely and unevenly and are rendered unmarketable.

POMEGRANATE-Punica granatum.

1. Blossom-end- Colletotrichum sp. November Coimbatore. rot February.

The calyx cup blackens, rots and rot travels into the fruit, sausing complete or partial damage to the fruit

Figs. - (Ficus carica)

Rust.

Uredo Fiei Cast.

September

Ootacamund Coimbatore

July, March December.

Numerous minute yellowish brown pustules on the lower urface of leaves.

GUAVA-(Psidium guava.)

. Sooty mould Capnodium.

February.

Coimbatore.

A dense sooty crust on the upper surface of leaves.

Fruit-rot. Pestaloz-zia psidii.

Nilgiris.

Brown corky eruptions on the fruits; the fruits crack and dry up.

PEACH - (Prunus peisica.)

. Leaf curl. Exeascus deformans. March & May. Ooty and Berk. Nilgiris.

The leaves become thickened turn yellow or less rosy and get wsted,

2. Rust. Puccinia Pruniper- January and Coimbatore sicae, Pers. March. Joty.

The lower surface of the leaves gets dotted with small round powdery yellowish brown pustules.

MULBERRY.

1. Mildew. Phyllactinia corylea January and Coimbatore Merst. March. Ooty.

The lower surface of leaves becomes covered with a silvery whitish coat at first and tiny black spots appear later on.

APPLE - (Pyrus Malus).

1. Mildew. Oidium. March Ootacamund Whitish powdery growth on the leaves and young shoots.

2. Pink disease. Corticium Salmoni-

color B & Br. November. Ootacamund

PLANTER'S CROPS. Rubber-(Hevea Brasiliensis)

 Leaf fall. Phytophthora Meadii June, August, Travancore McRae. September. Cochin.

Leaves fall off from the branches leaving the bunches bare and fruits to rot.

2. Leaf blight Helminthosporium January Bangalore
Heveae May Mundakayam
Trivandrum

April Travancore.
January. Cochin.

Minute purple spots are formed on leaves which later on become white semi transparent.

3. Pink disease Gorticium salmo- December. Malabar. Cochin.

Pink encrustation appears on the surface of the bark which rots and dries up and splits away from the wood causing the death of branches.

4. Die-back. Botryo-diplodia January. Travancore. Theobromae March. May.

Branches die back from the tip resulting in the death of the tree.

5. Brown root Hymenochaete noxia.

disease. Berk.

The attacked plant dies gradually. The roots are encrusted with a mass of sand and small stones bound together by the fungus 6. Brown bast.

Physiological.

TEA, -(Camellia Thea).

1. Grey Blight. Pestalozzia Theea August. Bangalore.

Wynaad.

Kerala estates,

Malabar. Travancore.

Grey patches on the surface of leaves causing the leaves to dry up.

 Brown blight Collectotrichum November. Wynaad. Camelliae October. Anamalais.

Brown spots on the surface marked by concentric zones. The diseased portions rupture and fall out leaving large holes.

3. Leaf-spot. Cercospora Thear February Kannan-

August Deva

st Deyan hills Kurdura

Luraura estate

Travancore.

Reddish brown spots which dry up and fall off leaving holes.
4. Root-rot. Rosellinia sp. February. Travancore high range

Plants die in patches, leaves wither, turn brown and dry up.

5. Brown root- Hymenochaetae noxia. March disease. Coimbatore.

The leaves wither and the bush roots are encrusted with a mass of sand and small stones bound together by the fungus.

6. Red-rust. Gephaleuros August Mundakayam mycoidea. Goimbatore.

Found on leaves and stem in red raised up patches.

7. Blister-blight Exobasidium vexans. August. Assam Darjeeling.

Blister like swellings found on the surface of leaves,

1. Rust. Hemeleia vestatrix. March

September

Anamalai S. Malabar. Nilgiris

Orange coloured spots on the under surface with corresponding brownish patch on the upper surface.

2. Black rot. Pellicularia

March

Anamalai.

Kolcroga September Coorg.

Leaves covered on the under surface with greyish white membranous film. The leaves turn black get detached and hang suspended by lungue filaments.

3. Sooty mould. Capnodium.

November. Malabar.

The leaves and twigs are covered over with a dense black crust made up of dark brown hyphae.

 Pink disense. C orticium salmonicolor. August

Bangalore.

Rose coloured crusts are found on the surface of twigs and stem. The leaves wither but do not drop off. The bark splits and peels off. Greyish white spots with reddish brown margin on the leaves and berries causing them to turn black, shrivel and drop down.

Leaf-spot.

Cercospora coffeicola.

July.

Kotagiri.

A Note on Lemons at Kadayam-Tinnevelly District. By T. V. AYYASAMI AYYAR.

The village-Kadayam-is about a mile from the Kilakadayam Railway station. It is famous for the cultivation of lemons. Every year lemons to the value of over Rs. 10,000 are produced here, and also sent as far as Trivandrum in the west and Madras in the north east; it is the lemon of this place that is highly appreciated by consumers. For successful cultivation three important factors are necessary.

- 1. Rich surface soil with red gravelly sub soil. By rich soil is meant well tilled soil containing plant food.
 - 2. Regular water supply.
- Application of vegetable compost chiefly "kolingi compost.