

Ascochyta spp.

Stem canker, caused by *Ascochyta* fungus, can be distinguished from "sore shin" by the presence in the brown stem lesions of dark spots, the fruiting bodies of the fungus, which exude a mass of pink spores in wet weather.

Spring-sown crops are rarely affected, but the disease can be particularly severe in autumn crops where wind or frost has caused damage. The disease is spread both by seed infection and by wind-blown spores from the residues of previous crops.

Botrytis cinerea

Botrytis cinerea is a fungus that attacks a large range of plants, usually ones which have been damaged in some way. On lupins it appears as a yellowish slimy ring just above ground level which later develops a grey feathery mould. The plants turn yellow and die. The disease is prevalent in plants which have passed through a hard winter.

Sclerotinia sclerotiorum (Sclerotinia Disease)

Sclerotinia sclerotiorum (sclerotinia disease), like the previous fungus, attacks a large range of plants. It attacks the plants at or above ground level, where a white weft is seen. Later the sclerotinia (black, horny bodies) develop and are attached loosely to the stem. The disease is soil borne and can cause the death of a considerable number of plants under conditions favourable to it.

Root Rot (*Phytophthora cinnamomi*)

Root rot (*Phytophthora cinnamomi*) fungi cause active rotting under very wet conditions and are also responsible for poor strike. Seed dusting with one of the mercury dusts will improve emergence under unfavourable soil conditions.

Lupins as a Crop

Though the importance of the lupin crop has decreased over recent years, it is still a valuable supplement to other winter feeds. It is of particular value as a plant which will assist the rapid improvement of light or run-out land. It can partially or wholly replace turnips where these have become unreliable.

The distribution of a productive sweet lupin, the Borre lupin, provides an additional lamb-fattening crop of potential importance in areas where rape is frequently attacked by aphids and other pests.

Blue lupins, bitter and sweet, can be sown alone or in mixtures with turnips, rape, oats, or any of the ryegrasses. By varying the time of sowing they can be made to produce a good quantity of nutritious feed at almost any period.

Radio Broadcasts for Farmers

RADIO broadcasts for farmers will be given during September as follows:

IYA Auckland, 7.45 p.m.

3 September—"Springtails", by D. M. E. Merry and D. L. Janett, Instructors in Agriculture, Department of Agriculture, Pukekohe.

10 September—"Matters Topical to Poultry Farming", by S. G. Haddon, Poultry Instructor, Department of Agriculture, Auckland.

17 September—"Silage Harvesting Machinery", by J. L. Doutre, Machinery Instructor, Department of Agriculture, Auckland.

24 September—"Care of Young Calves", by G. Wallace, Veterinarian, Department of Agriculture, Auckland.

IXH Hamilton, 12.33 p.m.

14 September—"Rabbits and Opossums in New Zealand", by W. R. Tocker, Livestock Instructor, Department of Agriculture, Hamilton.

21 September—"Supplementary Crops", by J. D. Currie, Instructor in Agriculture, Department of Agriculture, Hastings.

28 September—"Mole Drainage", by D. F. Scott, Machinery Instructor, Department of Agriculture, Hamilton.

IYZ Rotorua, 7 p.m.

9 September—"Progress of Hydatid Eradication Schemes", by A. G. W. Stevens, Livestock Instructor, Department of Agriculture, Rotorua.

23 September—"For the Commercial Vegetable Grower", by B. M. Piper, Horticultural Instructor, Department of Agriculture, Tauranga.

2YZ Napier, 7.10 p.m.

1 September—"Preparation of Stock for Freezing Works", by F. D. Usher, Meat Inspector, Department of Agriculture, Hastings.

15 September—"Wheat Growing in Hawke's Bay", by A. J. Coughlan, Fields Instructor, Department of Agriculture, Hastings.

29 September—"Meat Inspection—Ancient and Modern", by Z. V. Warren, Meat Inspector, Department of Agriculture, Hastings.

2XA Wanganui, 8 p.m.

3 September—"For the Country Woman", by Mary MacDonald.

10 September—Farming News.

17 September—"Beware of Excessive Fibre Feeding to Pigs", by C. M. Bailey, Supervisor, Taranaki District Pig Council.

24 September—"Apple Leaf Curling Midge", by G. N. Paulin, Horticultural Instructor, Department of Agriculture, Palmerston North.

2ZA Palmerston North, 12.36 p.m.

14 September—"Use of Potash", by C. J. Christie, Instructor in Agriculture, Department of Agriculture, Palmerston North.

28 September—"Some Problems Presented by Mechanisation", by R. G. Burton, Farm Machinery Instructor, Department of Agriculture, Palmerston North.

3YA Christchurch, 12.20 p.m.

7 September—"Weed Control in Crops", by A. Ebert, Fields Instructor, Department of Agriculture, Christchurch.

21 September—"Review of 'The New Zealand Journal of Agriculture'", by E. G. Smith, Instructor in Agriculture, Department of Agriculture, Rangiora.

4YA Dunedin and 4YZ Invercargill, 12.36 p.m.

2 September—"The Care of Pigs in Spring", by I. H. Owtram, Extension Officer in Pig Husbandry, Department of Agriculture, Wellington.

7 September—"Lucerne", R. H. Smith, Instructor in Agriculture, Department of Agriculture, Invercargill.

9 September—"Organic Matter and Soil Fertility", by R. H. Jackman, Scientific Officer, Department of Agriculture, Palmerston North.

14 September—"Pollination of Lucerne", by D. W. A. Seal, Apiary Instructor, Department of Agriculture, Invercargill.

16 September—"Artificial Nitrogen for Grass Seed Crops", by L. W. Gorman, Scientific Officer, Department of Scientific and Industrial Research, Palmerston North.

21 September—"Recent Trends in Orchard Spraying", by D. W. Wilson, Horticultural Instructor, Department of Agriculture, Roxburgh.

23 September—"The High Country—Development and Progress", by L. P. Chapman, Mt. Somers.

28 September—"Cropping for Winter Feed", by J. G. Richards, Instructor in Agriculture, Department of Agriculture, Oamaru.

30 September—"The High Country—the Future", by L. P. Chapman, Mt. Somers.

Regular Sessions

IYA Auckland, Mondays at 12.36 p.m. ("Country Journal"), including "Report from Ruakura", Tuesdays, Wednesdays, Thursdays, and Fridays at 7.45 p.m. ("Country Journal"), Thursdays at 12.33 p.m. ("News for the Farmer").

IXN Whangarei, Mondays at 8 p.m. ("Northland Stock Market Report" followed by "Farming for Profit"), Wednesdays at 8 p.m. ("Farming for Profit"), and Fridays at 12.33 p.m. ("Farm News").

IXH Hamilton, Mondays at 12.36 p.m. ("For the Farmer", excluding first Monday in month and public holidays), Wednesdays at 12.33 p.m. ("Report from Ruakura").

IYZ Rotorua, Wednesdays at 7 p.m. ("Bay of Plenty Journal"), Thursdays, 12.33 p.m. ("News for the Farmer").

2YZ Napier, Tuesdays at 7.10 p.m. ("The Hawke's Bay Farmer") and Thursdays at 12.33 p.m. ("News for the Farmer").

2XG Gisborne, Tuesdays at 8 p.m. ("Farm Session").

2XP New Plymouth, Fridays at 8 p.m. ("Farm Session").

2XA Wanganui, Mondays at 8 p.m. ("For the Man on the Land"), Tuesdays at 8 p.m. ("Farm Supplement"), and Thursdays at 8 p.m. ("Farm Topics").

2XB Masterton, Fridays at 6.45 p.m. ("Farm Session").

2XN Nelson, Thursdays at 8 p.m. ("Nelson Farm Topics").

2ZA Palmerston North, Mondays at 12.36 p.m. ("Country Digest") and Fridays at 8.30 p.m. ("Country Digest", including Feilding stock market report).

2YA Wellington, Mondays, Tuesdays, and Fridays at 7.10 p.m. ("Farm Session"), Thursdays at 12.33 p.m. ("News for the Farmer").

3YA Christchurch, Mondays at 12.20 p.m. ("Country Session"), Thursdays at 12.33 p.m. ("News for the Farmer"), and 7.10 p.m. ("Home Paddock").

3XC Timaru, Wednesdays at 8 p.m. ("Farmers' Weekly News Service") and Saturdays at 10.30 a.m. ("Country Mailbag").

3YZ Greymouth, Mondays at 12.36 p.m., Thursdays at 12.33 p.m. ("News for the Farmer").

4YA Dunedin, Mondays at 12.36 p.m., Wednesdays at 12.33 p.m., and Thursdays at 12.33 p.m.

4YZ Invercargill, Mondays at 12.36 p.m., Wednesdays at 12.33 p.m., and Thursdays at 12.33 p.m. ("News for the Farmer").