

very high quality, all grading as top level chillers.

The heavier cattle on the steer farm showed the highest gains. The cattle wintered gained an average of 2lb. per day from the time of purchase until fattening. Those bought in spring averaged over 2½lb. per day until slaughter later in summer. These very high gains are typical of stock that have gone through a long store period. When subsequently placed on ample feed such animals tend to make up rapidly for lost time by daily gains far ahead of those possible in an animal that has been well fed throughout its life. Though impressive, these gains suffer from the defect that a high proportion of them tends to be fat rather than lean meat.

The quality of the cattle from this block was poor for modern market requirements. They were excessively heavy for the export trade, carried too much fat, and the lean meat was coarse. It is quite obvious that, except for local production, there is little place, if any, in this country for this particular system of farming.

Profits

Despite the fact that the breeding cow farm produced only 13lb. of dressed meat per acre less than the 4 ewe per acre unit, the profits on stock were only half as much, £9 per acre as against £18.

Profit from straight fattening was even worse. Over the 3 years bullock fattening returned a profit on a stock account basis of only £7 per acre, despite the relatively prolific output of over 270lb. of dressed meat per acre. Again, this should be contrasted with £18 per acre from the 4 ewes plus cattle. It is obvious that straight cattle production, whether on a basis of breeding cows or fattening bullocks, is a system of farming possible only to the gentleman farmer in this country.

If the work of the 7 years is considered together, perhaps this last thought provides a key to the most important national outcome. It is obvious that future large-scale development of beef production in New Zealand depends on the relative prices of fat lamb, wool, and beef, as while the present ratio of lamb prices to beef prices continues and while reasonably high wool prices are maintained farmers cannot be expected to increase beef production to any material degree.

This does not mean that lamb prices should fall to the level of beef prices so that more beef will be produced. It means that the relative importance of the fat lamb and beef cattle industries in New Zealand depends on the relative prices paid for these two products.

RADIO broadcasts for farmers will be given during April as follows:—

1YA Auckland, 7.45 p.m.

2 April—"Autumn Pasture Management", by D. M. E. Merry, Instructor in Agriculture, Department of Agriculture, Pukekohe.

9 and 23 April—Talks by officers of Animal Industry Division, Department of Agriculture.

16 April—"Maintenance of Airstrips", by E. H. Arnold, Assistant Fields Superintendent, Department of Agriculture, Auckland.

30 April—"Drain Cleaning (Chemical)", by G. L. Banfield, Instructor in Agriculture, Department of Agriculture, Thames.

1XH Hamilton, 12.33 p.m.

14 April—"Wintering of the Ewe Flock", by G. R. Mackintosh, Livestock Instructor, Department of Agriculture, Hamilton.

21 April—"Winter in the Vegetable Plot", by W. Brandenburg, Horticultural Instructor, Department of Agriculture, Hamilton.

28 April—"Overseas Farmers' Organisations", by C. D. May-Sommerville, Federated Farmers, Hamilton.

1YZ Rotorua, 7.15 p.m.

2 April—"Autumn Management of Pastures", by B. A. Gunning, Instructor in Agriculture, Department of Agriculture, Matamata.

16 April—"Management of the Ewe Flock", by K. Wilson, Livestock Instructor, Department of Agriculture, Opoitiki.

30 April—"Winter Pasture Management on Dairy Farms", by A. V. Allo, Instructor in Agriculture, Department of Agriculture, Tauranga.

2XA Wanganui, 8 p.m.

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

10 April—"The Radio Vet.", by S. Jamieson, Veterinarian, Department of Agriculture, Wanganui.

17 April—"Pastures for Light Land", by A. A. Duncan, Instructor in Agriculture, Department of Agriculture, Wanganui.

24 April—"Woolshed Design", by P. C. Marshall, Sheep and Wool Instructor, Department of Agriculture, Wanganui.

2YZ Napier, 7.10 p.m.

8 April—"Practical Hints to Poultry Farmers", by H. K. Mullins, Poultry Instructor, Department of Agriculture, Hastings.

22 April—"Autumn and Winter Work about the Dairy", by L. W. Scott, Farm Dairy Instructor, Department of Agriculture, Hastings.

2XG Gisborne, 8 p.m.

8 April—Talk by J. D. Overbye, Horticultural Instructor, Department of Agriculture, Gisborne.

22 April—"Autumn Sown Crops Are Valuable", by H. de O. Chamberlain, Instructor in Agriculture, Department of Agriculture, Gisborne.

2ZA Palmerston North, 12.33 p.m.

14 April—"Care and Management of New Pastures", by F. G. Spite, Instructor in Agriculture, Department of Agriculture, Masterton.

21 April—"Cut Flowers for Market", by J. B. Laursen, Horticultural Inspector, Department of Agriculture, Palmerston North.

28 April—"Water Pumps in Their Right Place", by J. O. Brasell, Farm Machinery Instructor, Department of Agriculture, Palmerston North.

3YA Christchurch, 12.20 p.m.

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

4YA Dunedin and 4YZ Invercargill, 12.33 p.m.

2 April—"The Future of Farming", by Sir E. Bruce Levy, formerly Director, Grasslands Division.

9 and 16 April—"T.B. Testing", by S. Jamieson, Supervisor of T.B. Testing.

14 April—"Seasonal Stock Activities", by I. M. Cairney, Veterinarian, Department of Agriculture, Dunedin.

21 April—"Handling the Potato Crop", by A. R. Rankin, Fields Instructor, Department of Agriculture, Invercargill.

23 April—"Weeds and Pasture", by D. B. Edmond, Department of Scientific and Industrial Research, Palmerston North.

28 April—"Milking Machine Hygiene", by H. J. Dale, Dairy Instructor, Department of Agriculture, Dunedin.

30 April—"The Boar is Half the Herd", by I. Owttram, Extension Officer in Pig Husbandry, Department of Agriculture, Wellington.

4YZ Invercargill (following joint programme from 4YA and 4YZ)

14 April—"Autumn Saved Grass", by M. Smetham, Instructor in Agriculture, Department of Agriculture, Gore.

21 April—"The Year at the Works", by H. Cato, Supervising Meat Inspector, Ocean Beach.

28 April—"Plant Nutrition", by A. R. Rankin, Fields Instructor, Department of Agriculture, Invercargill.

Regular Sessions

1XH Hamilton, Mondays at 12.33 p.m. and Tuesdays at 8 p.m. (Frankton stock market report), Wednesdays at 12.33 p.m. (report from Ruakura Animal Research Station), Thursdays at 12.33 p.m., Fridays at 8 p.m. (stock sale review).

1XN Whangarei, Mondays at 8 p.m. (Northland livestock report and "Farming for Profit"), Wednesdays at 8 p.m. ("Farming for Profit"), and Fridays at 8 p.m. ("News for the Farmer").

1YA Auckland, Mondays at 12.33 p.m., Tuesdays, Wednesdays, and Thursdays at 7.45 p.m., and Fridays at 6 p.m. and 7.45 p.m.

1YZ Rotorua, Mondays at 12.33 p.m. (Waikato stock market review), Tuesdays at 7 p.m. (Hamilton stock market report), Wednesdays at 7.15 p.m. (Pig Council talk on fourth Wednesday of every other month at 12.33 p.m.), Thursdays at 12.33 p.m.

2XA Wanganui, Wednesdays at 8 p.m. (Wanganui stock sale report), Thursdays at 8 p.m.

2XG Gisborne, Tuesdays at 8 p.m., Fridays at 8.2 p.m. (Gisborne stock market report).

2XN Nelson, Thursdays at 8 p.m.

2XP New Plymouth, Thursdays at 8.1 p.m.

2YA Wellington, Mondays at 7.15 p.m., Thursdays at 12.33 p.m., Fridays at 7 p.m. (Feilding stock market report).

2YZ Napier, Tuesdays at 12.12 p.m. (Hawke's Bay orchardist session), Tuesdays at 7.10 p.m., Wednesdays at 7.15 p.m. (Hawke's Bay-Poverty Bay livestock market report), Thursdays at 12.33 p.m.

2ZA Palmerston North, Mondays at 12.33 p.m., Fridays at 8.45 p.m. (Feilding stock market report).

3XC Timaru, Mondays at 8 p.m. (Pleasant Point stock market report), Tuesdays (fortnightly) at 8 p.m. (Temuka stock market report), Wednesdays at 8 p.m., and Saturdays at 10.30 a.m.

3YA Christchurch, Mondays at 12.20 p.m., Wednesdays at 7.15 p.m. (Addington stock market report), Thursdays at 12.33 p.m. and 7.15 p.m.

3YZ Greymouth, Mondays and Thursdays at 12.33 p.m.

4YA Dunedin, Mondays at 12.33 p.m., Tuesdays at 12.33 p.m., Wednesdays at 12.33 p.m. and 6.50 p.m. (Burnside stock market report), Thursdays at 12.33 p.m.

4YZ Invercargill, Mondays at 12.33 p.m., Tuesdays at 12.33 p.m. and 7.15 p.m. (Lorneville and Gore stock market reports), Wednesdays at 12.33 p.m., and Thursdays at 12.33 p.m.