

# Agronomy Plan

2025/26 Nitrogen Guide

for LINCOLN UNIVERSITY DAIRY FARM

Prepared by Agri Manager

Courtney Jenkins

25/08/2025

Customer Number: 7095663



0800 100 123

[www.ravensdown.co.nz](http://www.ravensdown.co.nz)

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## Recommended Agronomy Plan

Customer: LINCOLN UNIVERSITY DAIRY FARM

Agri Manager: Courtney Jenkins

Customer No: 7095663

Mobile: 021 437036

PO BOX 85094  
LINCOLN UNIVERSITY  
CHRISTCHURCH

Email: courtney.jenkins@ravensdown.co.nz

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| Block:                     | Whole Farm | 175.0 ha |   |   |    |    |    |         |              |          |          |
|----------------------------|------------|----------|---|---|----|----|----|---------|--------------|----------|----------|
|                            | kg/ha      | N        | P | K | S  | Ca | Mg | Total   | Product Cost | Per Ha   | Total \$ |
| August/ Sept (Aug 25)      |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| AMMO 31 BULK               | 85 kg      | 26       | - | - | 12 | -  | -  | 14.88 t | \$757.56     | \$64.39  | \$11,269 |
| October (Oct 25)           |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| N-PROTECT                  | 60 kg      | 28       | - | - | -  | -  | -  | 10.5 t  | \$1,035.35   | \$62.12  | \$10,871 |
| November (Nov 25)          |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| N-PROTECT                  | 55 kg      | 25       | - | - | -  | -  | -  | 9.63 t  | \$1,035.35   | \$56.94  | \$9,965  |
| December (Dec 25)          |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| N-PROTECT                  | 50 kg      | 23       | - | - | -  | -  | -  | 8.75 t  | \$1,035.35   | \$51.77  | \$9,059  |
| Late- January/Feb (Jan 26) |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| N-PROTECT                  | 50 kg      | 23       | - | - | -  | -  | -  | 8.75 t  | \$1,035.35   | \$51.77  | \$9,059  |
| March (Mar 26)             |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| N-PROTECT                  | 60 kg      | 28       | - | - | -  | -  | -  | 10.5 t  | \$1,035.35   | \$62.12  | \$10,871 |
| April (Apr 26)             |            |          |   |   |    |    |    |         |              |          |          |
| Store: CHRISTCHURCH WORKS  |            |          |   |   |    |    |    |         |              |          |          |
| N-PROTECT                  | 50 kg      | 23       | - | - | -  | -  | -  | 8.75 t  | \$1,035.35   | \$51.77  | \$9,059  |
| Block Total                |            | 175      | - | - | 12 | -  | -  | 71.8 t  |              | \$400.88 | \$70,154 |
| Plan Total                 |            |          |   |   |    |    |    |         |              |          |          |
|                            |            |          |   |   |    |    |    | 71.8 t  |              |          | \$70,154 |

| Total Product Required (Option1) |              |      |   | Cost               |
|----------------------------------|--------------|------|---|--------------------|
| Fertiliser                       | AMMO 31 BULK | 14.9 | t | \$11,268.70        |
|                                  | N-PROTECT    | 56.9 | t | \$58,885.53        |
| Transport and Spreading          |              |      |   | \$0.00             |
| <b>TOTAL</b>                     |              |      |   | <b>\$70,154.23</b> |

#### Account Manager Notes:

Nitrogen dressings are recommended to comply with the N190 cap.

There is no planned N for Late Dec- till late January in this plan currently.

Still have "approx" 15 units to increase some of the rates by- depending where it suits best

Have included East block so total area 175ha

**Prices:** All prices are exclusive of GST and are subject to change. Refer to your Ravensdown price list for other terms and conditions.

**Application:** Ravensdown recommends the use of Spreadmark certified contractors.

Apply Fertiliser in accordance with the current Fertiliser Association Code of Practice for Fertiliser Nutrient Management.

It is recommended to undertake a soil test for total cadmium at least every 5 years from each management area on farm and follow the Tiered Fertiliser Management System for Soil Cadmium

#### Animal welfare cautions on fertiliser use.

*Fluorosis:* Phosphate fertilisers contain fluoride. Avoid grazing topdressed pasture for 21 days after topdressing or until 25mm of rain has fallen, to minimise any risk of stock deaths due to fluoride toxicity.

*Potassium and hypomagnesaemia:* Applying potassium to pasture in late winter/spring, particularly around lambing or calving time, can contribute to grass tetany (hypomagnesaemia) in pregnant and lactating stock. To avoid this risk, do not apply potassium during this period.

*Lime and hypocalcaemia:* Applying lime to pasture in late autumn/winter, particularly in the last three months of pregnancy can contribute to milk fever (hypocalcaemia) in lactating stock. To avoid this risk, do not apply lime during this period.

*Fluoride and cadmium levels:* All Ravensdown products contain less than 270g fluoride and 280mg cadmium per kg phosphorus.

*Nitrate Poisoning:* Nitrate poisoning is caused by animals ingesting diets or feeds that are excessively high in nitrate.

Key risk factors:

- Dull, overcast days = favourable to plant growth but not optimal photosynthesis.
- High soil temperatures = speeds up conversion of ammonia to nitrate in soil, thereby increasing uptake of nitrate by plant.
- Rapid plant growth, young plants and regrowth = nitrate is taken up faster than it can be incorporated into protein.
- Certain plant species are more at risk, eg annual ryegrasses, Brassica crops (especially turnips, rape and kale), maize, kikuyu, greenfeed oats, sorghum, millet, occasionally perennial ryegrasses (under the right environmental conditions) and some weeds (eg capeweed).

You can place your order from your Agronomy Plan online via HawkEye [www.hawkeye.farm](http://www.hawkeye.farm), by contacting the Customer Centre on 0800 100 123, or by email to [customer.centre@ravensdown.co.nz](mailto:customer.centre@ravensdown.co.nz).

For more information please contact the Ravensdown Customer Centre.