

# Agronomy Plan

LUDF Super 2024-2025

for LINCOLN UNIVERSITY DAIRY FARM

Prepared by Agri Manager

Mary Thomas

21/08/2024

Customer Number: 7095663

## Recommended Agronomy Plan

Customer: LINCOLN UNIVERSITY DAIRY FARM

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Version ID: 1

## LUDF Super 2024-2025

Block: Olsen P < 20		3.1 ha									
	kg/ha	N	P	K	S	Ca	Mg	Total	Product Cost	Per Ha	Total \$
Capital + Maintenance (Jul 25)											
		Store:									
SUPERPHOSPHATE BULK	670 kg	-	60	-	74	134	-	2.08 t	\$455.84	\$305.41	\$950
Block Total		-	60	-	74	134	-	2.1 t		\$305.41	\$950

Block: Olsen P 20-30		35.1 ha									
	kg/ha	N	P	K	S	Ca	Mg	Total	Product Cost	Per Ha	Total \$
Capital + Maintenance											
		Store:									
SUPERPHOSPHATE BULK	500 kg	-	45	-	55	100	-	17.55 t	\$455.84	\$227.92	\$8,000
Block Total		-	45	-	55	100	-	17.5 t		\$227.92	\$8,000

Block: Olsen P 30-40		117.0 ha									
	kg/ha	N	P	K	S	Ca	Mg	Total	Product Cost	Per Ha	Total \$
Maintenance											
		Store:									
SUPERPHOSPHATE BULK	390 kg	-	35	-	43	78	-	45.63 t	\$455.84	\$177.78	\$20,800
Block Total		-	35	-	43	78	-	45.6 t		\$177.78	\$20,800

Block: Olsen P >40		21.0 ha									
	kg/ha	N	P	K	S	Ca	Mg	Total	Product Cost	Per Ha	Total \$
<b>Maintenance</b>											
Store:											
SULPHUR SUPER 15 BULK	230 kg	-	20	-	34	44	-	4.83 t	\$491.35	\$113.01	\$2,373
<b>Block Total</b>		-	20	-	34	44	-	4.8 t		<b>\$113.01</b>	<b>\$2,373</b>
East Block and Jackies have been included in this block, as even tho' their Olsen P levels are below 40, they are support blocks and dont require as much P as the dairy farm.											

<b>Plan Total</b>											
70.1 t										\$32,123	

Total Product Required (Option1)				Cost
Fertiliser	SULPHUR SUPER 15 BULK	4.8	t	\$2,373.22
	SUPERPHOSPHATE BULK	65.3	t	\$29,749.80
<b>Transport and Spreading</b>				<b>\$0.00</b>
<b>TOTAL</b>				<b>\$32,123.03</b>

<b>Account Manager Notes:</b>
Plan base off 2024WFT soil test results.
Fertility is in or above optimum range for most paddocks. Some paddocks need Capital - In particular paddocks E5
Lime is not required this year- levels are at or above optimum levels.
Potassium is at or above optimum no potassium needs to be applied this season
Overseer Maintenance for Lincoln University is between 32-36kg/P/ha
<b>Prices:</b> 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.**