

# Fertiliser Plan

## Toggenburg Trust Crops 2024



### Prepared for

Customer **EA Gamperle (3034639)**

Property **Toggenburg Trust No 2 Dairy - 77340 (4026447)**

### Prepared by

**Dorothee Frey**

+6421313105

Start Date **01 Oct 2024**

End Date **31 Dec 2024**

Customer Services

**0800 222 090**

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

### Plan summary: block view

| Block                 | Recommendation                  | Delivery date | Area (ha) | Kg/ha       | Tonnage | N          | P         | K          | S         | Mg | Ca | Na | Est. cost         | Rec. number | Reference |
|-----------------------|---------------------------------|---------------|-----------|-------------|---------|------------|-----------|------------|-----------|----|----|----|-------------------|-------------|-----------|
| Brassica              | Brassica at Planting            | 01/10/2024    | 5.0       | 250.0       | 1.25    | 41         | 49        |            | 3         |    |    |    | \$1,732.50        | 8199674668  |           |
| Brassica              | Brassica Side Dress at Canopy C | 13/11/2024    | 5.0       | 100.0       | 0.50    | 46         |           |            |           |    |    |    | \$447.50          | 8199674669  |           |
| <b>Brassica Total</b> |                                 |               |           |             |         | <b>87</b>  | <b>49</b> |            | <b>3</b>  |    |    |    | <b>\$2,180.00</b> |             |           |
| Maize                 | Maize Base                      | 01/10/2024    | 5.0       | 810.0       | 4.05    | 117        |           | 250        | 23        |    |    |    | \$3,324.58        | 8199674670  |           |
| Maize                 | Maize Starter                   | 01/10/2024    | 5.0       | 200.0       | 1.00    | 35         | 40        |            | 2         |    |    |    | \$1,286.00        | 8199674671  |           |
| Maize                 | Maize Side Dress                | 20/11/2024    | 5.0       | 250.0       | 1.25    | 115        |           |            |           |    |    |    | \$1,118.75        | 8199674672  |           |
| <b>Maize Total</b>    |                                 |               |           |             |         | <b>267</b> | <b>40</b> | <b>250</b> | <b>25</b> |    |    |    | <b>\$5,729.33</b> |             |           |
| <b>Plan Total</b>     |                                 |               |           | <b>8.05</b> |         |            |           |            |           |    |    |    | <b>\$7,909.33</b> |             |           |

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**Notes:** Please see below details of the crop fertiliser recommendations based on soil test results taken by Andrew Provis from Farmlands.

There is no lime requirement this season.

Brassicas  
Cropzeal Boron Boost at 250 kg/ha at planting will provide sufficient Boron and phosphate for seedling establishment. A side dress at canopy closure is recommended to maximise yields.

Maize  
Starter DAP at 200 kg/ha is sufficient for seedling establishment due to good Olsen P levels.

Nitrogen, Potassium and Sulphur soil levels are low optimum and crop nutrient requirement top-up have been included in the base fertiliser.

A side dress post-emergence is recommended to maximise yields.

### Block: Brassica 5.0 ha

#### Recommendation: Brassica at Planting

| Product                      | Tonnage | Kg/ha | Kg nutrient/ha                      |    |   |   |    |    |    | Estimated costs (\$/t)               |         |           |       | Total   | Delivery date | Rec. number |
|------------------------------|---------|-------|-------------------------------------|----|---|---|----|----|----|--------------------------------------|---------|-----------|-------|---------|---------------|-------------|
|                              |         |       | N                                   | P  | K | S | Mg | Ca | Na | Product                              | Cartage | Spreading | \$/ha |         |               |             |
| Cropzeal Boron Boost         | 1.3     | 250   | 41                                  | 49 |   | 3 |    |    |    | \$1,359                              | \$0     | \$0       | \$347 | \$1,733 | 1/10/2024     | 8199674668  |
| Store: Te Poi Service Centre |         |       | Carrier: Wealleans Groundspread Ltd |    |   |   |    |    |    | Spreader: Wealleans Groundspread Ltd |         |           |       |         |               |             |

#### Recommendation: Brassica Side Dress at Canopy C

| Product                                                    | Tonnage | Kg/ha | Kg nutrient/ha       |   |   |   |    |    |    | Estimated costs (\$/t) |         |           |       | Total | Delivery date | Rec. number |
|------------------------------------------------------------|---------|-------|----------------------|---|---|---|----|----|----|------------------------|---------|-----------|-------|-------|---------------|-------------|
|                                                            |         |       | N                    | P | K | S | Mg | Ca | Na | Product                | Cartage | Spreading | \$/ha |       |               |             |
| Sustain                                                    | 0.5     | 100   | 46                   |   |   |   |    |    |    | \$868                  | \$0     | \$0       | \$90  | \$448 | 13/11/2024    | 8199674669  |
| Store: <b>Te Poi Service Centre</b>                        |         |       | Carrier: <b>Self</b> |   |   |   |    |    |    | Spreader: <b>Self</b>  |         |           |       |       |               |             |
| Notes: <b>Apply at canopy closure for maximized yields</b> |         |       |                      |   |   |   |    |    |    |                        |         |           |       |       |               |             |

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**Block: Maize 5.0 ha**

**Recommendation: Maize Base**

| Product                             | Tonnage | Kg/ha | Kg nutrient/ha                             |   |     |    |    |    |    | Product                                     | Estimated costs (\$/t) |           |       | Total   | Delivery date | Rec. number |
|-------------------------------------|---------|-------|--------------------------------------------|---|-----|----|----|----|----|---------------------------------------------|------------------------|-----------|-------|---------|---------------|-------------|
|                                     |         |       | N                                          | P | K   | S  | Mg | Ca | Na |                                             | Cartage                | Spreading | \$/ha |         |               |             |
| Special Mix                         | 4.1     | 810   | 117                                        |   | 250 | 23 |    |    |    | \$777                                       | \$0                    | \$0       | \$665 | \$3,325 | 1/10/2024     | 8199674670  |
| Muriate Of Potash                   | 2.5     | 500   |                                            |   | 250 |    |    |    |    |                                             |                        |           |       |         |               |             |
| Sustain                             | 1.1     | 210   | 96                                         |   |     |    |    |    |    |                                             |                        |           |       |         |               |             |
| Nrich SOA                           | 0.5     | 100   | 21                                         |   |     | 23 |    |    |    |                                             |                        |           |       |         |               |             |
| Store: <b>Te Poi Service Centre</b> |         |       | Carrier: <b>Wealleans Groundspread Ltd</b> |   |     |    |    |    |    | Spreader: <b>Wealleans Groundspread Ltd</b> |                        |           |       |         |               |             |

**Recommendation: Maize Starter**

| Product                             | Tonnage | Kg/ha | Kg nutrient/ha       |    |   |   |    |    |    | Product               | Estimated costs (\$/t) |           |       | Total   | Delivery date | Rec. number |
|-------------------------------------|---------|-------|----------------------|----|---|---|----|----|----|-----------------------|------------------------|-----------|-------|---------|---------------|-------------|
|                                     |         |       | N                    | P  | K | S | Mg | Ca | Na |                       | Cartage                | Spreading | \$/ha |         |               |             |
| DAP - Di Ammonium Phosphate         | 1.0     | 200   | 35                   | 40 |   | 2 |    |    |    | \$1,259               | \$0                    | \$0       | \$257 | \$1,286 | 1/10/2024     | 8199674671  |
| Store: <b>Te Poi Service Centre</b> |         |       | Carrier: <b>Self</b> |    |   |   |    |    |    | Spreader: <b>Self</b> |                        |           |       |         |               |             |

**Recommendation: Maize Side Dress**

| Product                             | Tonnage | Kg/ha | Kg nutrient/ha       |   |   |   |    |    |    | Product                        | Estimated costs (\$/t) |           |       | Total   | Delivery date | Rec. number |
|-------------------------------------|---------|-------|----------------------|---|---|---|----|----|----|--------------------------------|------------------------|-----------|-------|---------|---------------|-------------|
|                                     |         |       | N                    | P | K | S | Mg | Ca | Na |                                | Cartage                | Spreading | \$/ha |         |               |             |
| Sustain                             | 1.3     | 250   | 115                  |   |   |   |    |    |    | \$868                          | \$0                    | \$0       | \$224 | \$1,119 | 20/11/2024    | 8199674672  |
| Store: <b>Te Poi Service Centre</b> |         |       | Carrier: <b>Self</b> |   |   |   |    |    |    | Spreader: <b>To Be Advised</b> |                        |           |       |         |               |             |

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## Disclaimer

This is a fertiliser recommendation, not a quote. The prices shown are indicative only, and are exclusive of GST. A Special Mix Service Fee will be applied to your special mix order or individual despatches against your order under the 1 tonne bulk or 5 tonnes bagged thresholds. On acceptance of a recommendation a sales order confirmation will be issued; this will show pricing on the day of issue. Fertiliser prices are subject to change; customers will be invoiced based on prices ruling on day of delivery.

Our technical advice is given in good faith but without warranty. The application and use of products is beyond our control and we therefore do not warrant pasture, plant or crop performance to any specific level. In making recommendations we rely on information provided to us by the customer and/or third parties such as commercial analytical services. As an animal health precaution, do not allow livestock to graze pasture until fertiliser has disappeared from foliage. Mixes containing nitrogen can become unstable and should be applied either separately or immediately upon delivery. Please refer to the Fertiliser Codes of Practice with respect to both third party and environmental risk effects.

Stock fluoride poisoning (fluorosis) can occur following application of phosphate (P) fertilisers. To minimise the risk of fluorosis, Ballance recommends that:

- Following application of P-fertiliser, pastures should not be grazed until at least 25 mm of rainfall has occurred, or sufficient time has elapsed so that no fertiliser residues are evident on the leaves of the pasture.
- P-fertiliser application should be staggered so that there is feed available to stock at all times that is not contaminated with fertiliser residues.

Should you choose to disregard the above principles, the fertiliser application practice you undertake is done so at your own risk. Managing P-fertiliser applications based on the following principles will reduce the risk of fluorosis, however, Ballance does not recommend application outside of the conditions outlined above.

- Application of P-fertilisers containing lower levels of fluoride will reduce the risk of fluorosis. For example, RPR and Superphosphate have higher fluoride levels than DAP and Triple super.
- Well-granulated fertiliser products are less likely to adhere to plant leaves.
- Avoid applying P-fertilisers when the pasture is damp (e.g. on a morning dew)
- Low application rates (<200 kg/ha) will reduce the risk of fluorosis.
- Defer P-fertiliser applications away from early spring when stock have high feed demand and are under stress, and where pasture covers are low.