

# FEATURES, FUNCTIONS AND BENEFITS

### Features

- **Patented liquid biological soil conditioner.**
- **Contains five bacterial species, each at minimum population of 10<sup>7</sup> (10 million) CFU per mL, and one yeast at 10<sup>6</sup> CFU per mL. Species are:**
  - *Lactobacillus parafarraginis*
  - *Lactobacillus buchneri*
  - *Lactobacillus rami*
  - *Lactobacillus casei*
  - *Acetobacter sp.*
  - *Candida sp.*
  - *Water, Potassium Humate and Molasses.*

All species of *Lactobacillus* are gram positive, facultative anaerobic bacteria.
- **Certified as an input for organic farming.**
- **Compliant with the USDA National Organic Program (NOP).**

### Functions

Great Land may improve the yield and health of plant systems through a combination of functions:

- Enhancing plant processes such as root development and fruiting;
- Improving soil conditions to enable release and plant uptake of bound nutrients, for example, phosphorous and nitrogen;
- Encouraging the growth of other beneficial microbes such as mycorrhizal fungi and nitrogen-fixing bacteria; or
- Improving the plant's own defences against abiotic or biotic stress.

**The performance of Great Land is maximised when soil structure, nutrient profile and moisture levels are favourable for microbiological activity.**

### Benefits

Commercial users of Great Land have observed many benefits, including:

- Better root development;
- Better plant growth and yields;
- Improved clover content, pasture density, palatability and uniformity of grazing;
- Outcompeting weeds due to increased pasture or crop density;
- Building activity of other beneficial microbes for improved long-term soil health;
- Reduced use of chemical inputs when the biological system is functioning better;
- Improved soil structure and increased capacity for holding more water, nutrients and organic matter; and
- Fewer incidents of animal health ailments due to improved nutritional quality of fodder.

### Application

<b>Target</b>	Plant root zone.
<b>Timing</b>	Apply late in the day to avoid peak ambient heat periods. Apply before or during rain events to ensure flushing of product into the root zone.
<b>Method</b>	Dryland: boom spray. Irrigated: fertigation via tape or overhead systems. Ideally inject Great Land during the middle third of the fertigation event. Flood irrigation: recommended to use boom spray for more even distribution of product.
<b>Tank-Mixing Compatibility</b>	Refer Tank-Mixing Compatibility Register available at <a href="http://www.terrigen.com.au">www.terrigen.com.au</a> .
<b>Agitation / Dilution</b>	Containers must be agitated before decanting. Product must be diluted just prior to application.
<b>Great Land - NEW Rate</b>	4 litres Great Land per hectare at each application.
<b>Water Rate</b>	Boom spray: At least 1 in 10 dilution in water. Higher water volume rates allow for better penetration of microbes into the soil. Fertigation: dilute Great Land to a volume that enables even distribution through the fertigation event.
<b>Frequency</b>	2 to 3 times per year aligning with forage growth periods – early autumn break, late autumn and spring.
<b>Storage</b>	Containers must be stored under cover away from direct sunlight, with vented cap retained.
<b>Shelf Life</b>	6 months from production. The 'Use By' date is valid only for unopened containers, stored under the specified conditions
<b>Withholding periods</b>	Nil, certified organic.

## TESTIMONIALS



*Jakob Franzenburg, of Ballangeich, VIC, is using Great Land soil conditioner on a large scale to improve pastures for his dairy herd.*

### Trial success with Great Land leads to mainstay on farm

**Denser pasture and healthier soil have been the benefits from using Great Land on the “Ballangeich Run” property of Jakob and Wiebke Franzenburg in the Western Districts of Victoria.**

Mr Franzenburg, who milks 1400 cows, first trialled Great Land on an eight-hectare area affected by salinity and hard compacted soils, six years ago.

“After three years we knew it worked, he said. “We then used Great Land on fifty

hectares, then 350 hectares and now plan to double that area.”

Mr Frazenberg said the main difference with the use of Great Land was he pasture grew denser and healthier and was more palatable.

“We’ve done tissue tests and soil tests and there seems so much more nutrition in the grass. We are getting so much more out of it.”

### Pioneering product helping condition soil for Tasmanian dairy

**Tasmanian dairy farmer Geoff Atkinson has used Great Land soil conditioner to grow better pastures and improve animal health. Mr Atkinson said Great Land assisted other products such as fertiliser to be more productive in pastures.**

“You can see Great Land working in the tips of the grasses. The grasses show you how well you are doing.”

Great Land is used on both pastures a brassica crops and Mr Atkinson said it played a role in preventing wild white moth from feeding on the plants. The major benefit from Great Land was the better-quality pastures; a blend of grasses and clovers. “The clover is really good and produces nitrogen to help benefit and balance the soil.”



*Geoff Atkinson, of Howth, TAS, was the first Tasmanian farmer to trial Great Land soil conditioner and has used it successfully ever since.*



*Alex Bowman, Cooramook Dairy Manager, Grassmere, VIC, is looking to improve plant health and productivity with Great Land.*

### Biological trial in ryegrass showing herd health benefits

**A trial of Great Land has shown increases in herd health at Cooramook Dairy, part of the Midfield Group, in southern Victoria. Manager Alex Bowman is trialling Great Land on 202 ha of pasture with applications made via boom spray in autumn and spring.**

He is seeking to increase plant health and productivity by enhancing the soil characteristics that enable better availability and uptake of soil-bound nutrients. “I am looking forward to seeing

the soil and leaf tests going forward,” Mr Bowman said. “I think it could be an excellent addition to how we farm.”

They have already seen massive health benefits through their cow heard with the use of Great Land.

“Our cell counts have improved. Farming does have a lot of variables so we are looking forward to seeing the results over the next three to five years. So far the data has been very good and I’m confident it will stay that way.

### Terragen Area Representatives:

<b>Vic – South West</b>	Michelle Bratty	0418 479 909	<b>Vic – Northern Vic</b>	Russell Keenan	0483 222 269
	Paul Weston	0438 500 032	<b>SA / Western Vic</b>	Chris O’Callaghan	0418 203 509
<b>Vic – Gippsland</b>	Ross Clancy	0428 486 069	<b>NSW / Qld</b>	Paul Weston	0438 500 032
	Russell Keenan	0483 222 269	<b>Tas</b>	Ross Clancy	0428 486 069