

## Eco-Growth Biological Fertilisers

### Complete NPK, Mineral & Biology

- Compounded / blend of NPK and Bio-Phosphate
- Fast releasing - Slow leaching
- Bio-Activated for Enhanced Plant Uptake
- Includes Australian Softrock Phosphates
- Designed for West Australian Soil Conditions



Eco-Growth Prime NPK Mineral Fertilisers combine state of the art with traditional fertiliser technology, resulting in efficient, balanced, cost effective cropping fertilisers.

The result is faster longer lasting complete nutrition, creating strong consistent growth over mixed soil types and robust plants to withstand stress conditions,

*Plus long term benefits can including: Improved soil conditions from biological activity, compaction relief, deeper root growth and associated humus increases...*

Analysis % / ppm	N%	P%	K%	C%	Ca%	Mg	S%	Si%	Fe%	Cu ppm	Zn ppm	Mn ppm	B ppm	Co ppm	Mo ppm	Se ppm
Prime Pasture	0.2	7.1	7.6	3.1	17	0.9	4.7	15.3	1.4	252	407	1054	34	47	8	7
Prime Crop NP	7.6	9.3	0.3	4.5	11.7	0.9	4.1	8.1	0.9	120	210	420	18	6	6	2
Prime Crop NPK plus	6.5	8.8	5.7	3.7	9.7	0.7	5.4	6.7	0.8	100	1925	3450	15	5	5	2
Prime Crop PK plus	3.2	10.1	7	0.1	14.4	0.5	5	15.4	1.2	268	415	4306	34	67	7	9

**Prime Fertilisers analysis can be adjusted to meet individual growing needs**

please speak to your local Eco-Growth suppliers in house agronomist to discuss in detail.





## Eco-Prime Microbiology - *Enhancing plant root development*

Laboratory grown beneficial soil microbe species have been incorporated in Eco-Growth's Prime Fertiliser prilling (granulating) process, designed to increase fertiliser availability, assist plant root function and enhance nutrient uptake.

In addition, soil microbes are included which function as: soil structure builders, decomposers, nutrient mobilisers, nitrogen fixers, protectors and plant growth hormone producers.

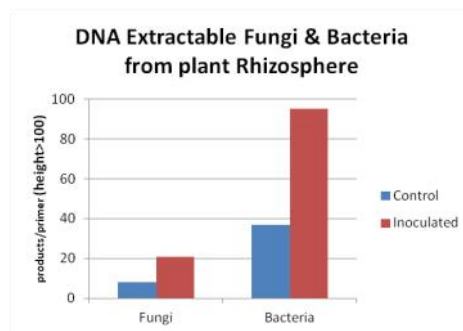
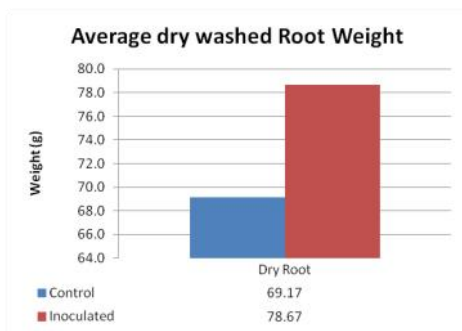
Eco-Growth's Microbiology and Prime Fertiliser combination results in a package promoting increased fertiliser availability, enhanced plant development and improved soil conditions. This equals soil and plant health, plus a big step towards Sustainable Farming.

### Some of Eco-Growth's Microbe Strains include:

- Azotobacter:** Produce nitrogen, vitamins and plant growth hormones. *Azotobacter spp.*
- Azospirillum:** Free living nitrogen fixers-converting atmosphere nitrogen in the soil
- Bacilli:** Such as Lactic acid bacteria, help with soil condition structure *Bacillus subtilis*, also phosphorus solubilisation *Bacillus Megaterium*
- Cellulosic Fungi:** Decomposers of organic matter (cellulose) turning stubble into organic carbon. *Chaetomium spp.*
- Mycorrhiza:** Nutrient converters and actively source phosphorus from the soil. Vesicular Arbuscular Mycorrhiza *spp (Glomus intraradices)*
- Pseudomonas:** Bacteria that populate the soil and root zone, aid with plant hormone production *Pseudomonas spp.*
- Rhizobium:** Legume nitrogen fixers.
- Streptomyces:** Bacteria that produce metabolites that help plants grow.
- Trichoderma:** Plant metabolite and hormone producer. *Trichoderma spp.*



To ensure reliability, Eco-Growth's Prime Fertilisers are formulated as a honeycomb of conventional NPK, Trace Minerals, Carbon, Proteins, Alginates and pH buffers. These are formed into hard free flowing granules designed to activate only in the presence of soil moisture. Additional elements are then blended to ensure flexibility of *custom analysis for farm specific application*.



Example of Eco-Prime Microbiology utilized as a seed dressing to improve root development.

**Note**, resulting early root development can significantly improve the benefits of early rain, plus extend soil moisture availability through dry periods, resulting in more consistent grain sizing / lower screenings.

Addition of the above microbe strains, aids the function of the fertiliser and is intended to kick start soil processes. However many factors (including temperature, moisture levels, chemical residues, etc.) effect microbial activity. For this reason the above biology is intended only as a tool to aid seed and begin biological processes. The success of this will depend on the above factors and general soil health conditions. Eco-Growth and Superior Fertilisers cannot guarantee complete survival or response from any microbe included in our process, however every care is taken to ensure consistency and survival.