

Delivers beneficial nutrients and biological compounds



Balance & Grow[®]

LIQUID BIOSTIMULANT

By delivering such a broad range of bio-nutrients, **Balance & Grow[®]** stimulates healthier vegetative growth and ultimately yield and quality. It addresses a wide range of growth and health issues that can emerge in growing plants.

Grow more with BioAg Balance & Grow[®]

Each season crops and pastures endure stresses (cold, heat, dry, wet, hail, low light or nutrient imbalances), that negatively impacts growth.

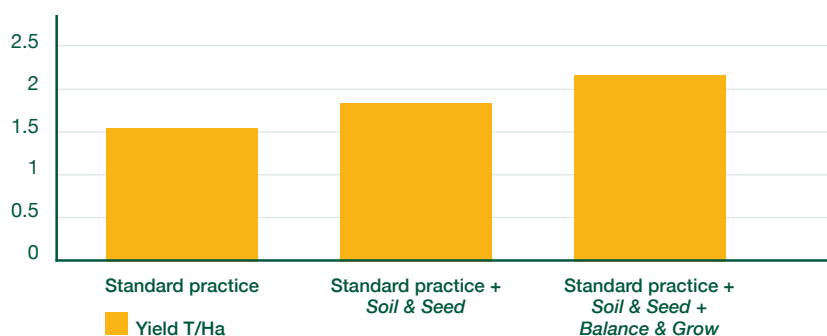
Supply or production of a broad spectrum of nutrients, enzyme's and amino acids is critical to supporting optimal vegetative growth, a key factor in achieving optimal quality and yields.

Seasonal conditions and common farming practices can negatively impact growth.

In addition to the abiotic stresses on crops and pasture, the use of herbicides, pesticides and fungicides will negatively impact beneficial plant and soil microbiology. Soil microbiology is critical in the cycling and supply of macro and micronutrients that support vegetative growth.

Applying **Balance & Grow** provides plants and soils with nutrients, carbohydrates, vitamins, minerals, amino acids, enzymes and proteins. These broad range of components will improve supply of key nutrients and bioactive compounds. Plant uptake is enhanced as components are in a biological form which are readily absorbed supporting crops and pastures immediately against the negative effects of abiotic stresses.

The use of **Balance & Grow[®]** produced a significant yield response in the Balaklava wheat trial of 2011.



Formulated to:

- Support vegetative growth, soil microbial activity and root development.
- Deliver a range of growth promoters, amino acids and biochelators.
- Supplies a broad range of vitamins, minerals, proteins, enzymes and carbohydrates.



Better soils. Better crops. Better stock.

Broad Spectrum biostimulant and biochelator

Balance & Grow® provides immediately available forms of phosphorus, calcium and nitrogen in combination with a broad spectrum of biological compounds and food sources, which are in a highly available form to plants.

Key attributes#	
Plant growth promoters	Source of exogenous phytohormones naturally available for plants.
L-isomer Amino Acids	His, Ser, Arg, Gly, Asp, Glu, Thr, Ala, Pro, Lys, Tyr, Met, Val, Iso, Leu, Phe, Try. The concentration of available amino acids varies by product.
Other nutrients	Trace Elements
Compatibility	Common tank mixes; e.g. with calcium nitrate, UAN, dissolved urea, micro-nutrients and other foliar applied products.
Application method	Foliar

#Based on analysis from Creation Innovation Agriculture and Forestry (CIAAF).

Physical properties##	
Nitrogen	0.5%
Phosphorus (P)	0.5%
Potassium	0.5%
Calcium	0.5%
Organic Carbon	4.0%
Ash	3.0%
Fat	<0.1%
Protein	4.0%
Carbohydrates	5.0%
Total Solids	12%
pH	3.0

##Typical analysis wet basis.
Environmental Analytical Laboratories.

A complete suite of readily available food sources during the critical vegetative growth phase.

Formulated to increase vegetative growth, root development and soil microbial activity, **Balance & Grow** improves plant growth, particularly early vegetative growth which is important for optimal future yield.

Balance & Grow delivers a broad spectrum of beneficial nutrients (including calcium and phosphorus) and biological compounds in a form that means they are rapidly absorbed and assimilated by your crop.

Natural amino acids, enzymes and proteins within **Balance & Grow** support plant physiological processes, unblocking the flow of nutrients and improving the nutrient balance with the plant. Thereby increasing the plants' ability to combat stresses such as heat frost, drought and disease. Improving growth and subsequently yield and quality.

The organic compounds in **Balance & Grow** make it a natural bio-chelator of water-soluble nutrients. Applied with liquid or dissolved fertilisers, **Balance & Grow** reduces losses to antagonists and enhances plant uptake.

Applied as a foliar treatment (sprayed directly onto your crop), ensures crops have immediate access to a complete suite of food sources and growth promoters during the critical vegetative growth phase.



Increasing the soil's fertility is one of the key principles of BioAg programs and products.

BioAg is an Australian owned and operated manufacturer of liquid biostimulants and natural phosphate fertilisers, since 1999. Your local BioAg Area Managers are always available to discuss how the products and programs can improve your farming system or put you in contact with our distributor network.



BioAg's range of proprietary fermented liquid cultures or biostimulants **improve fertiliser usage** at each critical stage of crop or pasture development.



Ideal for broadacre, pastures and horticulture, BioAg's **Balance & Grow** provides immediately available forms of phosphorus, calcium and nitrogen and a broad spectrum of biological compounds and food sources. During the vegetative growth stage, plant growth, health, and ultimately yield can be inhibited by a range of factors. While nutrient deficiencies are often addressed, deficiencies of biological or organic molecules, compounds, and catalysts in the plant are often ignored or harder to detect.

Complete tailored solutions

BioAg fertility programs are available for a wide range of crop types and pastures and can be adapted for conventional and organic farming systems.

Our expert Fertcare accredited Area Managers work with farmers to provide tailored fertility programs that consider the individual block, including its history and soil type, along with soil test results and the farmer's yield and quality goals and budget. In other words, we develop a fertility program for your farm that suits you, and helps your farm meet its full productive capacity.

Overleaf we have provided a range of sample programs for information and context. For a custom program suited to your farm, we recommend contacting your local BioAg Area Manager.

Quality assurance

Balance & Grow, part of BioAg's liquid biostimulant range, is produced to stringent formulations, fermentation process and control parameters such as temperature, fermentation times, quality of raw material inputs. Throughout the process we monitor and test fermentation conditions with a final stage of stabilisation whereby products are made safe for storage and transportation. Final products contain a diverse range of bioactive compounds including enzymes, microbial foods and plant foods. Use of *Balance & Grow* is more likely to fill any gap in crop nutrient disorders as well as encouraging growth and maintenance of soil microbiome.

Organic variants

Each of BioAg's fermented liquid cultures are also available as certified inputs for organic farming systems. The liquids are complemented by BioAg's organic input certified solid fertiliser range.



Proven in trials



The comprehensive BioAg website provides independent and replicated trial results proving *Balance & Grow's* effectiveness in increasing yield in most pasture production scenarios.

Typical Application Rates

Crop	Application rate (L/ha)	Comments
Broadacre Grasses Cereals, sorghum, corn, sugar canes	1.0 to 3.0	Apply to non-stressed plants from early tillering until first internode elongation of 25mm. Do not apply after booting commences.
Broadacre Dicots Cotton, potatoes, clovers, lucerne, peanuts, canola, pulses, sunflowers	1.0 to 3.5 1 to 4 applications	Apply to non-stressed plants during the vegetative growth stage.
Horticulture Vines, citrus, vegetables, nut and fruit trees	1.0 to 4.0 1 to 6 applications	Apply to plants prior to the commencement of their reproductive phase at a minimum dilution of 1:100 with water.
Pasture	2.0 to 4.0	Apply to grazed pastures. Withholding period – NIL

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Balance & Grow® Application

Boom spray, Mist spray or Aerial.

Use appropriate personal protective equipment and handling equipment.

Storage

- Store out of direct sunlight and below 30°C, away from children, animals, food and feed.
- Do not store mixed product.
- Shelf life of 18 months when stored per directions.

Mixing and spraying

- Agitate contents well before use.
- Fill tank to a minimum of two thirds of water.
- Under agitation add other nutrients and chemicals as prescribed.
- Take a small sample to jar test BioAg Balance & Grow for compatibility of use. Check for physical changes.
- If compatible add BioAg Balance & Grow under agitation, bring volume up to full.
- Use within 48 hours of dilution.

Distributor Information:

 Organic variation of BioAg Balance & Grow® also available



bioag.com.au

02 6958 9911



To find out more visit our website or call a BioAg Area Manager

