

EnerGrow



Soil & Crop Enhancer



**An easy to use liquid semi-organic fertiliser,
designed to you give the best results
in any condition.**

© Agriforce Pty Ltd 2003



AGRIFORCE

www.agriforce.com.au

Freecall 1800 624 597

Phone: 07 4685 2003

Fax: 07 4685 2446

info@agriforce.com.au

ABN: 27 054 423 344



What is EnerGrow?

EnerGrow[®] is a plant enhancer and soil stimulant, which helps produce vigorous well balanced plants capable of increased quality and yields.

EnerGrow[®] acts by stimulating the natural biological processes of the plant, delivering essential macro and micro nutrients to all crops across a broad spectrum of soil types and growing conditions.

When applied to the soil, EnerGrow[®] provides food for existing microbes, enhancing both their activity and number. This provides numerous benefits even in high pH soils.

As a foliar spray, EnerGrow[®] promotes the photo-synthetic process enabling the plant to perform to its optimum, delivering slow release Nitrogen, as well as phosphorus, potassium, cobalt, molybdenum and boron, even when under stress from seasonal conditions.

Features of EnerGrow:

- Liquid formulation 10-7-10 plus MolyCoB plus Humic Acid as potassium humate.
- A semi-organic product which stimulates soil micro-organisms through it's cobaltic organic action.
- Stimulates rhizosphere (root zone) activity and provides tolerance to fungal diseases.
- Unlocks normally unavailable elements in both the plant and the soil.
- Contains cobalt, molybdenum and boron as quelated elements, which accelerate root nodulations, nitrogen fixation and enzymatic processes.
- With slow release nitrogen, protein accumulation is achieved during the crops development stage.
- Foliar application gives mobility of starch and sugar.
- Stimulates the process of flowering and setting fruits.
- Provides a sustainable approach to farming.
- An easy to use liquid formulation.
- Environmentally friendly.



Seedling Establishment

Strong healthy seed establishment is vital for any crop to reach its full potential. When applied to the soil, EnerGrow® helps the crop achieve this potential by a number of processes:

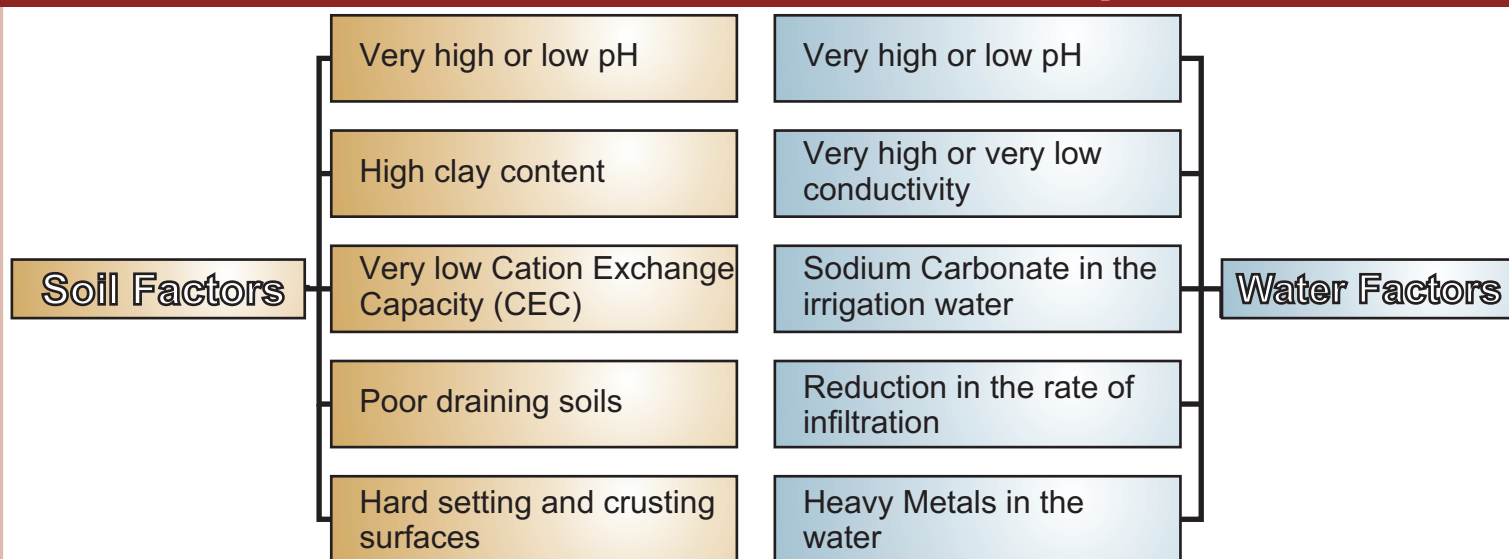
- The action of humic acid being on of a natural chelating agent, releases nutrients that are locked up in the soil.
- By stimulating beneficial microbial activity, uptake of existing nutrients and water in the soil is facilitated.
- By its action in the rhizosphere (root zone), tolerance to fungal diseases is provided.
- By providing a food sources (carbon, cobalt and molybdenum) for nitrifying bacteria, mycorrhiza, and many other beneficial soil micro-organisms.
- Having phosphate ions that allow the plant to produce ADP (Adenosine Di-Phosphate) an essential organic ingredient of photosynthesis.

Flowering and Fruit Set

It is at this stage that the yield potential of a crop is set and therefore one of the most crucial periods of the plant's life cycle. When applied at the flowering and fruit set stage, EnerGrow® will:

- Stimulate the photo-synthetic processes, enabling optimum performance of the plant during its reproductive stage. With charged potassium feeding into the plant system, the opening and closure of the stomata will produce more carbohydrates.
- Due to its unique formulation of the phosphate ion, the photo-synthetic process is accelerated.
- Allow the essential minerals in it's formulation to pass through both the stomata and leaf cuticle, even in times of environmental stress. This allows for quicker absorption into the phloem and xylem and therefore better transportation to the root zone and fruiting sites.
- Will regulate the conversion of ammonium in nitrate and nitrate in proteins and sugars due to the activity of molybdenum and boron.

Solutions to Soil and Water Problems with Crops



When soils have a very high or low pH value, the availability of micro-nutrients to the crop is either greatly reduced or exceeded. EnerGrow® delivers the correct level of micro-nutrients regardless of the pH value.

With hard setting and crusting surfaces in soil, the salinity level of the soil is detrimental to the crop, resulting in a higher uptake of sodium. EnerGrow® will regulate the metabolism of the plant to avoid this excess sodium uptake.

When EnerGrow® is applied through irrigation, the conductivity of the water is regulated, allowing for a better osmotic process.

The organic content of EnerGrow, traps sodium atoms into the irrigation water avoiding its accumulation in the soil.



Composition

| | |
|----------------------------|----------------|
| Organic Carbon | 5.0% |
| Available Ionic Phosphorus | 7.0% |
| Slow Release Nitrogen | 7.0% |
| Available Ionic Potassium | 7.0% |
| Available Ionic MolyCoB | 1 - 0.5 - 1.0% |

Application of Energrow

Energrow may be applied by air, ground or irrigation (trickle or sprinkler). It may also be applied as water injection into the soil.

| CROP | RATE Lt/Ha | WATER Lt/Ha | CRITICAL COMMENTS |
|------------------------|------------------|---------------------------------|--|
| Cotton / Sugar Cane | 7 - 10 7 - 10 | 30 - 150 30 - 150 | Apply with seeding operation as water injection Foliar - applied before or at flowering |
| Pasture / Corn / Beans | 7 7 | 30 - 100 30 - 150 | Apply with seeding operation as water injection Foliar - applied before or at flowering |
| Winter Crops | 7 7 | 30 - 50 30 - 50 | Apply with seeding operation as water injection Foliar - applied before or at flowering |
| Citrus | 10 10 | Through Irrigation 100 - 150 | One application per month Foliar - applied before or at flowering |
| Grapes | 10 10 | Through Irrigation 100 - 150 | One application per month Foliar - applied before or at flowering |
| Pome Fruits | 10 10 | Through Irrigation 100 - 150 | One application per month Foliar - applied before or at flowering |
| Potatoes | 10 7 | 50 - 100 100 - 150 | At time of planting as water injection Every fortnight after flowering |
| Vegetables | 10 10 | 50 - 100 100 - 125 | Apply at seeding or transplanting operation Flowering and maturity stage |

Compatibility

- Energrow mixes well with most fungicides and pesticides, however, the mixing of three or more products can reduce the efficiency.
- Energrow is incompatible with calcium, magnesium, zinc and copper products.
- Always test for compatibility.



AGRIFORCE

www.agriforce.com.au

Freecall 1800 624 597

Phone: 07 4685 2003

Fax: 07 4685 2446

info@agriforce.com.au

ABN: 27 054 423 344