



COTTON STARTER FERTILISER PROGRAM

*Ask your local reseller how to use
B&B: Liquid Blood and Bone to get this seasons
crop off to the best possible start.*

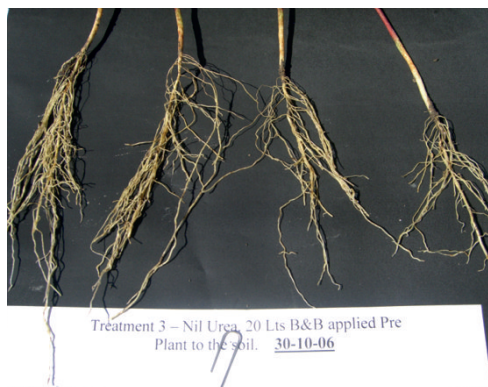
Why use a liquid starter fertiliser?

Growers of cotton around Australia are aware that good quality liquid starter fertilisers enhance the development of emerging cotton seedlings by supplying essential nutrients safely in accessible locations near the emerging roots and shoots. The use of a starter fertiliser is a way of improving crop production efficiency and improving yield prospects. It is generally agreed that the early stages of the plant development are the most important.

Why use B&B as a starter fertiliser?

- High quality natural ingredients: Synthetic starter fertilisers, especially solids, are known to 'overdose' the seedlings and are particularly harmful to the newly forming root systems.
- More available nutrients: Phosphorus is complexed organically, protecting it from immobilisation in the soil and increasing its availability for plant uptake. Organic acids chelate nutrients increasing their availability and uptake by the plant. Potassium is provided in a chlorine free form that is available to plants longer and will not burn the seed.
- Soil and soil microbiology improvement: A complex mix of organic acids and sugars enhance and promote beneficial organisms and improve soil quality.
- Compatibility: B&B is compatible with many other herbicides and pesticides and may be blended with other liquids thus saving application costs.

Year in Year out - existing users of B&B see improved germination rates, faster and better root development and avoid costly replanting



Treatment 3 – Nil Urea, 20 Lts B&B applied Pre Plant to the soil. 30-10-06

20 Litre of B&B applied Broadcast



Treatment 4 – 500 Kgs Urea, Nil B&B, Conventional Treatment. 30-10-06

500 kgs of Urea applied Broadcast pre-plant



Fast Facts:

B&B is a one step colloidal liquid suspension organic based fertiliser containing:

- A balanced NPK (10:3:6) to feed through both foliage and roots. With a balanced formulation of trace elements and minerals to address deficiencies and imbalances.
- Organic matter including protein, amino acids, albumin, globulin and cholesterol to feed and nurture the organic activity in the soil.
- Two naturally occurring growth promotants to stimulate plants to take up and use all the available nutrients, trace elements and minerals.

B&B Flow-Fine is derived from ovine (sheep) blood and bone and has gained an enviable reputation for producing strong, healthy, disease resistant plants as well as top quality flowers, fruit and vegetables.

B&B Marine is made from organic material sourced from deep-sea fishing operations. It is ideal for use on pastoral grazing land with no stock withholding period, and in horticulture. B&B Marine has the same typical analysis and will produce the same results as B&B Flow-Fine.

What is B&B Liquid Blood and Bone:

Typical analysis (elemental %w/v)- Due to the organic nature of the product the analysis may vary slightly

Total Nitrogen (N)	9.9	Phosphorus (P)	3.5	Calcium (Ca)	0.7	Zinc (Zn)	0.02
13% of N as Nitrate	1.31	Potassium (K)	6.5	Magnesium (Mg)	0.07	Copper (Cu)	0.02
24% of N as Ammonium	2.37	Sulfur (S)	1.4	Iron (Fe)	0.03	Boron (Bo)	0.03
63% of N as Organic	6.22	Manganese (Mn)	0.03	Selenium (Se)	0.01	Molybdenum (Mo)	0.01

Plus Giberellins, Triacntanol (Tria) and organic material.

B&B: Liquid Blood and Bone, with organic material as its base composition, will increase uptake of soil applied nutrients and ensure applied nutrients are not wasted.

B&B: Liquid Blood and Bone Rates of Use:

Use B&B as a replacement to chemical starter fertilisers direct injected with the seed at planting at a rate of 2-4 Lt per ha (or 20-40 Lt per ha on a 10% band) in sufficient water to adequately cover the seed.



Zinc X-Tra is An Enhanced ZINC Nutrient Solution Typical Analysis (%W/V) is Zn 12.5% & S 5.9%

For those growers who need to boost Zinc at planting, combining B&B + Zinc X-T-ra is a perfect way to increase your Zinc availability.

Also contains non-plant food ingredients: Fulvic Acid, Enzymes, Organic Complexing agents, natural plant extracts -

Zinc X-Tra Rate of Use: 1-2 Lt per ha direct inject at planting

Ask your local reseller about special Zinc X-Tra pricing for use with B&B as a starter.



Did you know:

B&B has a specific gravity of about 1.24 so one litre weighs 1.24 Kg.

As B&B is a colloidal suspension containing organic material, it will not leach or wash away even under heavy rain or irrigation.

B&B feeds via foliage and roots meaning that it can be applied directly to plants and the surrounding soil with excellent results.

The natural growth promotants in B&B help plants to use the available nitrogen more efficiently with less waste.

The organic nature of B&B will increase the organic carbon content of the soil and release naturally occurring nutrients.

B&B is widely accepted as an important part of integrated fertiliser programmes to improve soil sustainability.

B&B is manufactured in Goondiwindi QLD. It is made from Australian materials for Australian conditions.

Growth Agriculture Cotton Application Program

	Direct Injected at Planting	Soil Applied Prior To Planting	First Square	First Flower	Peak Flower	First Open Boll	Harvest Aid
Growth B&B as Starter Treatment at Planting	2-4 lts / Ha **						
Growth B&B as supplement		20lts / Ha (Min 10%) Band	5 - 10lt / Ha at First Square followed by 5-10lt /Ha every 14 days until First Open Boll (Minimum of 4 applications)				
Growth B&B as a replacement		20lts / Ha (Min 10%) Band	10lt / Ha at First Square followed by 10lt /Ha every 14 days until First Open Boll.(Minimum 6 applications)				
Charge	2 - 4lts / Ha		2 - 4 lts / Ha				
Boron Xtra	300-900 mls / Ha			300 - 900 mls alone or with Total K			
Engage PK				2 - 4 Lt / Ha at 1st Flower then again In 14 days			
Total K					2 - 5 lts / Ha as required		
Total N			Apply 2 - 5lts / Ha prior to every Waterlogging Event alone or with 2lt /Ha Growth B & B				
Zinc XTRA	1 - 2lts / Ha		1 - 2 lt / Ha				
Leafex							15 - 22 lts / Ha plus Wetter

****Use Growth B&B as a replacement to chemical starter fertilisers direct injected with the seed at planting at a rate of 2-4 Lt per ha in sufficient water to adequately cover the seed.**

Please note: Foliar applications can be banded to suit the growth stage of crop, however,thorough coverage of foliage is essential. As an example - at first square generally a band width of 25% would be suitable increasing to 100% at peak flower.

Please note: the Application Calendar is given as a guide only and in some instances other rates or products may be necessary to correct imbalances depending on your in crop circumstances.