HYBRID AG

TRACE ELEMENTS RANGE

N-HANCE

BROADACRE

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PROTEX
N-HANCE

N-Hance is a mix of trace minerals which when applied with Nitrogen will not only increase its efficacy but add cell strength and better photosynthesis function to the crop. (N-Hance can also be applied with herbicides, insecticides and fungicides if these are necessary).

Protex N-Hance has been developed following evaluation of differential leaf sap tests(the blood test for plants!) in crops right across Victoria and NSW where the following elements were found to be consistently lacking:

Molybdenum – necessary for nitrate conversion to complete proteins. Enables more efficient use of nitrogen and decreases toxic build up of Nitrates, which attracts insects, particularly aphids.

Zinc – essential for cell strength and seed fertility. Zinc improves nutrient movement through the cell walls and vacuoles. It is a cofactor to enzymes vital for photosynthesis and it has a fungicidal effect by strengthening the cell.

Copper – like Zinc, Copper is essential for cell strength and flexibility, as well as fertility. A deficiency of Zinc and Copper can lead to lodging and yield loss. Copper also plays a large part in the plant's defense mechanism, producing compounds which repel insects and fungal attack. Copper deficiency is exacerbated by excessive Nitrogen application.

Iron – vital for efficient chlorophyll production with the yellow leaves of deficient plants being the first obvious sign. Iron is needed not only by the plant but by many of the beneficial micro-organisms associated with the plant, such as Rhizobia ssp. Iron is also critical for plant health and function.

Manganese – needed for water hydrolysis in the production of chlorophyll. Manganese is a regulator of Potassium within the plant. This means that Potassium deficiency which has a major impact on crop health and yield may be, in some cases, attributed to low levels of Manganese. Manganese is also able to repel fungal attack by Take All.

Boron – is required for cell construction and strength. It is vital for root and shoot development as well as fertility and seed viability. Boron can also be the cause of calcium deficiency which leaves the plant prone to disease and insect attack.

Why use Protex N-Hance:

- Better plant growth and health
- Protection against disease and insect attack
- Fertility and yield from improved use of nitrogen and potassium
- Gradual building of these nutrients in the soil from plant/root residue
- Low cost and efficient when used with crop protection products or foliar Nitrogen and Magnesium

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APPLICATION RATES

Protex N-Hance should be applied around the fourth leaf to early tillering of cereal crops. In canola and legumes around the fourth leaf to first flower. A single application of 4L/ha will last approximately 4-6 weeks in winter growing crops. A second application may be applied around Z30 to Z45 or first flower in canola and legumes if sap levels continue to remain low. Always test, don't guess!

4 litres per hectare or as advised

Dilution Rate
1:25 or as advised

Store in a cool place away from sunlight. Stir well before use.

TYPICAL ANALYSIS

Major Elements	**(w/v%)**
Zinc	2.6%
Manganese	1.6%
Nitrogen	1.0%
Iron	0.9%
Copper	0.8%
Boron	0.5%
Molybdenum	0.4%
Nickel	0.1%