

Think smarter, not harder with BIG N

BIG N® fertiliser fits into a wide range of modern farming practices, allowing farmers to work smarter, not harder.

At 82% nitrogen, BIG N is a very cost-effective fertiliser to transport. At almost double the analysis of urea, you only have to handle half the amount of product.

Incitec Pivot Limited delivers BIG N where you want it, when you want it. Just pick up your phone and let your BIG N Distributor know when you want to apply nitrogen and how much you need.

There are no clean-up jobs when using BIG N. No more cleaning out silos or bins. Incitec Pivot takes back the BIG N you don't need.

BIG N is stored as a liquid by keeping it under pressure. In conventional application, BIG N is released into the soil as a mixture of gas and liquid at high pressure. Methods of BIG N application can vary from region to region and between different cropping operations, so talk to your local BIG N Field Service Specialist about the best option for your system.

Pre-plant

BIG N is an ideal choice of fertiliser for pre-plant nitrogen application. Its high concentration of nitrogen and the convenience of on-farm delivery means you can spend more time actually applying nitrogen and less time re-filling.

There are agronomic advantages of applying pre-plant as well. Most of your soil's nitrogen is in the top 10 cm of soil. However, crops source moisture and nutrients throughout the whole root zone.

If you apply your nitrogen early in a pre-plant situation you give it a better chance of getting down below the top layer of soil, where it can be used by the crop at later stages of growth.

Getting nitrogen into the root zone is difficult in a post-plant situation, especially in the northern dryland cropping areas.

In addition, it is often too late to take remedial action for crops that are deficient in nitrogen, once symptoms such as yellowing of new growth occur.

By applying pre-plant, you give your crop every opportunity to take advantage of any seasonal upside that may occur.



Des Guihot is very happy with the head start BIG N gives to his canola crops.

Pre-applying BIG N has worked for Cowra farmer Des Guihot. He said like many, he was cautious about his fertiliser application for the 2007 season, but decided to pre-plant to give his canola crop a head start on the basis of how the season was shaping up. Des said he was very happy to see that within days of emergence, the extra nitrogen and good rains had his canola crop looking superb and eliminated the need to topdress early in the season.

Variable rate

BIG N, through variable rate application, allows you to be in precise control of the nitrogen rate applied. Guided by pre-determined nitrogen rate maps and GPS navigation systems, growers can target specific areas for higher or lower rates of nitrogen fertiliser.

BIG N flow rates can be changed using electronic flow controller systems from the tractor cab without the need for physically adjusting any equipment.

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One pass

Increased on-farm costs such as fuel and labour are making cutting out a pass and reducing the time spent in the paddock more and more valuable.

Because of the high nitrogen concentration in BIG N, you can apply a lower rate of the fertiliser to achieve the same rate of nitrogen, thereby improving field efficiency so you can sow for longer before needing to refill.



A professional BIG N set-up gives Peter and Jan Johnstone good results in their wheat and canola operations.

Woodstock wheat and canola producers Peter and Jan Johnstone, with sons Ben and Tom, are happy with the results they achieve from applying BIG N at sowing with their Gyrat Agboss airseeder.

The airseeder's fluted coulter is great for cutting through heavy stubble and creating a good tilth in the furrow in front of the tines.

BIG N is placed 4-5 cm below the seed line, with the soil flowing back around the BIG N.

Disc openers or tines

Growers choose equipment that helps them to conserve moisture and work in varying stubble loads, soil moisture conditions and soil types.

The choices are almost endless. Some systems are built specifically to suit local conditions and there is always the choice of disc opener or tine.

BIG N can be used very successfully with disc openers across a broad range of soil types and conditions. The best results occur when press wheels are closing the trench effectively and the gas tube is not running too close to the disc.

Tines have been successfully used for many years in BIG N application. As with disc openers, moisture conservation and minimising soil disturbance are major objectives. Press wheels are also recommended for tine application of BIG N.



BIG N is providing NSW grower Andrew Crowe with efficient nitrogen application for his winter and summer crops.

An efficient one-pass sowing system with BIG N is proving to be a winning combination for farmer, Andrew Crowe. He grows winter and summer crops, with barley and sorghum the mainstays of the operation in Garah, NSW. Andrew can sow up to 100 hectares of sorghum in six continuous hours, using his 18-metre wide machine and a big, four tonne BIG N tank.

Banding

Mid-row and below seed banding with BIG N allows root systems to access applied nitrogen later in the growing season without the need to topdress.

The timing of nitrogen availability depends on the soil type, row spacing and growing conditions, but if it is managed correctly, growers can control early dry matter production and maximise grain fill at maturity.

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Minimum till

In situations of minimum tillage where a furrow may not be rapidly covered behind an application tine, Cold Flo™ technology allows BIG N to be applied successfully with minimal loss.

Cold Flo relieves the pressure at which the ammonia is delivered from the applicator tank. BIG N is passed through a super cooler to reduce its energy and maintain a high proportion of liquid. The result is that 85% of the BIG N is applied as a supercooled liquid and 15% as a vapour.

The ammonia remains liquid in the soil for longer, providing more time for a mechanical device such as harrows or press

Sidedressing

For growers who prefer to sidedress fertilisers, BIG N has some advantages over urea.

With BIG N, ammonia immediately forms ammonium when applied to the soil. This strongly attaches to clay surfaces in the soil, meaning that the nitrogen stays where it is placed until it converts to nitrate.

It takes longer for urea to convert into ammonium and finally into plant available nitrate. With BIG N, the process is faster due its immediate ammonium conversion, so farmers can be satisfied their crops are getting the nitrogen they need, when they need it.

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**For details from the fertiliser specialists,
contact your local Incitec Pivot BIG N Business Partner.**

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Water run

Water running BIG N offers ease of use and convenience as there is very little preparation work or handling required. Nurse tanks are delivered to the paddock. BIG N is bubbled directly into the irrigation ditch, requiring only minimal supervision.

The application equipment required to water run BIG N is simple, reliable and inexpensive. The flow meter releases BIG N accurately into the furrows and is easy to set.



Wee Waa cotton producer, Steven Parish, says BIG N delivers a cost-effective and easy application of nitrogen.

As a long time user of BIG N, Wee Waa cotton producer Steven Parish knows the advantages of BIG N. Depending on the season, Steven water runs BIG N to top up nitrogen during irrigation. Producing cotton at his 1000 hectare farm, Steven says BIG N is a cost-effective way of supplying nitrogen to his crop, due to its ease of transfer and application.

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