

PolyNPlus™

Trials highlight efficacy of foliar nitrogen fertiliser range



Fertiliser Services

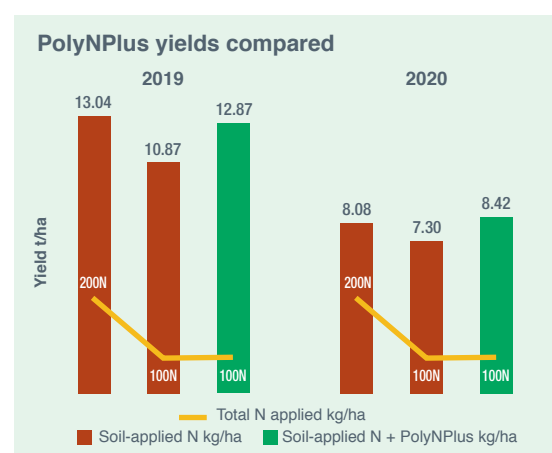
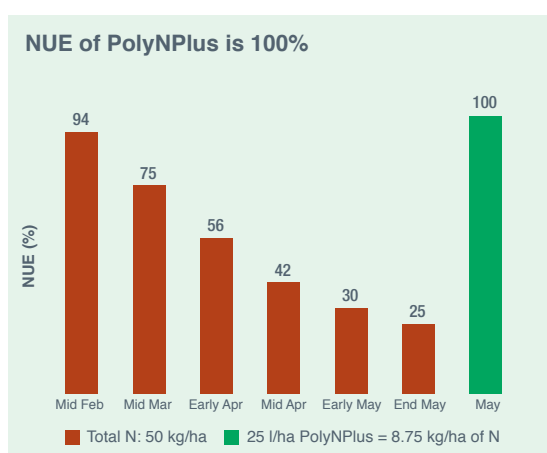
Trial data demonstrates that using PolyNPlus, BFS's foliar fertiliser, reduces the amount of nitrogen farmers need by about 25 per cent. At the same time, applying PolyNPlus maintains crop yields and keeps costs down. Uniquely this product has been trialled extensively over many years by NIAB, one of Britain's oldest agricultural research centres.

NIAB trials

Formulated with ureic polymers, micronutrients and organic uptake enhancers, PolyNPlus eliminates nitrate leaching as well as minimising ammonia and greenhouse gas emissions. And also, because cereals use energy by absorbing nutrients through their leaves rather than their roots, the Nitrogen Use Efficiency of PolyNPlus is 100 per cent (see chart below left).

Therefore using PolyNPlus is helping to reduce the industry's impact on the environment by cutting pollution.

When applied in a co-ordinated programme with soil-applied nitrogen, using PolyNPlus resulted in comparable yields with significantly lower levels of nitrogen - even in the very dry spring of 2020 (chart below right).



Source: NIAB TAG

PolyNPlus in practice

In practice, provided 140 to 180kg of soil-applied nitrogen is used at the start of the growing season, foliar applications of PolyNPlus can replace the third application resulting in the same yield with about 25 per cent less nitrogen. The exact quantity of soil-applied nitrogen required will depend on local conditions including soil mineral nitrogen and organic matter.

PolyNPlus is safe to apply direct to the leaf. No scorch was noticed during trials.

PolyNPlus is particularly useful during dry spells when a crop's uptake of soil-applied nitrogen can be as low as 20 per cent.

PolyNPlus eliminates leaching and minimises ammonia emissions - a significant breakthrough in the way farmers use fertilisers.

PolyNPlus is supplied in reusable packaging in the form of 1,000 litre IBCs.



Formulations

There are several formulations to meet different crop needs:

- PolyN Straight 35N
- PolyNPlus Cereals 32-0-0-6 + 0.1 magnesium, manganese, zinc, copper
- PolyNPlus ManMag 28-0-0-2.3 + 0.8 magnesium + 1.5 manganese
- PolyNPlus High Sulphur 30-0-0-18 + magnesium, manganese
- PolyNPlus Oilseed 30-0-0-12 + magnesium, manganese, copper, molybdenum, boron
- PolyNPlus Maize 30-0-0-6 + zinc.

Also available are two hybrid products, combining the benefits of PolyNPlus and BFS's protein enhancement product Profol, with added biostimulants and micronutrients:

- PolyNPro
- PolyNPro S.

Avoid mixing manganese sulphate with the sulphur formulations of these products.

Recommended usage

As a guide, and depending on soil and weather factors, 25 litres of PolyNPlus replaces 40-50 kgs of soil-applied nitrogen. Apply with fungicide applications ideally T1, T2 and T3. PolyNPlus can be applied

in one application of up to 25 litres/ha or 10 litres/ha in each fungicide application. Good spraying practices apply. Apply to oilseed rape at petal and green pod stage and maize at 8-12 leaf stage.

Saving time and money

Since PolyNPlus can be tank-mixed with crop protection products, it reduces the number of passes needed, saving time and application costs – especially important in these economically challenging times.

BFS Fertiliser Services

BFS has been pioneering new ideas in the crop nutrition industry since its foundation in 1948, continually developing new formulae to expand its wide range of fertilisers. Working alongside leading agronomists, BFS designs bespoke programmes for farmers and growers while its dedicated transport fleet delivers its products directly to customers' farms.

Please contact us to find out how to improve the efficiency of your nitrogen usage.



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