



Knowledge grows



Yara -
Complete
Crop Nutrition
Guide

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Crop Nutrition Services

Precision nutrition for peak performance on your farm

Complete nutrition support

Our Yara Crop Nutrition Services team (CNS) are here to provide expert knowledge and support for you. As trained experts in crop nutrition, you can rely on our industry leading agronomic advice to make sure your crops consistently perform and maximise yield each season.

The CNS team are here to provide tailored solutions to suit your farming business. Our factory to field ethos and guidance will allow you to take advantage of the complete Yara product offering. The team will work with you to produce an end-to-end bespoke crop nutrition product plan to your requirements.

*"Our partnership with Yara goes beyond products, it's about trust and collaboration."
Haverholme Farm Partnership's longstanding relationship with Yara is a testament to the quality and effectiveness of their offering. "I've always trusted Yara, their products and services are spot-on and their knowledge has been invaluable."
"Our goal is simple: to maximise crop quality and yield while minimising inputs, we're constantly seeking ways to farm more effectively. This includes working with Yara Crop Nutrition Services on minimising our environmental impact while maximising yields."
Dean Broadberry, Haverholme Farm Partnership*



Next steps

Our team of Crop Nutrition experts provide on farm support in your local area. All members of the CNS team are FACTS qualified, you can trust their advice and recommendations. This brochure provides additional details on our range of liquid, foliar and solid fertiliser ranges, along with digital support tools to increase your efficiency and make better informed decisions.





Yara Liquid Fertiliser

Efficiency & Accuracy

Yara liquid fertilisers contain combinations of nitrogen, phosphorus, potassium and sulphur in a range of true solution products for use on any crop.

Yara produce liquid fertilisers bespoke to your needs. Currently there are over 300 different grades available to match crop needs.

If you are looking to start your journey with Yara liquid fertiliser, please contact us to discuss our range of storage tank options

Tank Capacity (m ³)	Diameter (m)	Overall Height (m)
30	3.05	4.34
40	3.05	6.2
50	3.05	7.3

What are the main reasons for changing to liquid fertilisers?

Increased efficiency

- **Increased application efficiency** - Liquid fertiliser systems are capable of achieving extremely high work rates - maximum bout widths with fewer passes at increased ground speed together with rapid fertiliser handling and tank filling so less standing time.
- **More working days** - Liquid fertilisers can mean more available working days because, compared to solid fertilisers, applications are less affected by weather conditions.
- **Reduced labour** - The handling and application of liquid fertiliser is often a simple, one-person operation.
- **Better use of capital** - Changing to liquid fertilisers can have a considerable effect on the capital requirements of a farming enterprise with one machine replacing two, no need for handling equipment and reduced storage requirement.

Unbeatable accuracy

- **Improved accuracy** - Liquid fertiliser applied through your current farm sprayer will give you an immediate improvement in the accuracy of your nitrogen and NPKS applications.
- **Uniform application** - Yara's liquid fertilisers are 100% water soluble, and hence are uniform, which means they give consistent flow rates and no recalibration is required when changing grades.
- **No headland effect** - Liquid fertiliser applied through stream jets fertilises to the edge of the crop and no further. This avoids losing yield by under fertilising crop margins.
- **Avoids wastage** - Over-fertilising beyond the field boundary wastes up to 5% of total fertiliser applied to the field.
- **Protects field margins** - Applying up to the crop edge and no further, protects the environment and field margins under management schemes.



Yara Foliar Nutrition & Biostimulants

YaraVita Foliar Nutrition

For superior field performance



YaraVita products are not simply nutrients. They are fully formulated finished products designed from the start with crop nutrition in mind.

Each YaraVita foliar fertiliser product is developed specifically to supply crops essential micronutrients, including boron, calcium, copper, iron, magnesium, manganese, molybdenum, sulphur and zinc as well as the macronutrients - nitrogen, phosphate and potash, as both single nutrient and multi-nutrient formulations.

What are the advantages of YaraVita Foliar Fertilisers?



Enhance crop performance

Each YaraVita foliar product is formulated from consistently high-quality nutrient compounds. YaraVita foliar nutrients are a necessity to guarantee the highest crop quality and yield.



Manufactured in the UK

Yara Pocklington site is the global centre for the development and production of the YaraVita range of foliar and micronutrient fertilisers.



Better Return on Investment

YaraVita products are designed and formulated for maximum efficiency and performance. Products can be applied and nutrients taken up by the crop exactly when they are required.



Yara Foliar Nutrition & Biostimulants

YaraAmplix Biostimulants

Help crops overcome
abiotic stresses



YaraAmplix™ is our portfolio of biostimulant technology, designed to improve nutrient use efficiency, support soil health, and amplify natural crop processes and improved tolerance to abiotic stress in changing climate conditions.

Biostimulants differ from other agricultural inputs such as fertilizers and plant protection products, therefore complementing Yara's crop nutrition solutions across the entire growing season.

Why choose YaraAmplix?

Reduce the impact of climate change



Adapting practices to changing climate conditions, it enhances tolerance to abiotic stress, resulting in improved yields

Optimise the use of resources



Increases nutrient use efficiency, reducing nutrient losses to the environment and optimizing fertiliser use efficiency

Improve soil health



Improves soil health and fertility, positively impacting soil restoration and water use efficiency

Improve biodiversity



Improves biological diversity in the soil by creating favourable conditions for microorganisms, improving microbial activity

Farmer prosperity



Improves crop quality, contributing to more vigorous and healthy plants, leading to less food waste and improved yield quality & quantity

YaraAmplix™ offers a diverse range of products which are also suitable for different application methods, including foliar, fertigation, seed and fertiliser coating.

YaraAmplix OPTINUE

Promotes root growth and enhances rhizosphere efficiency to improve nutrient uptake.

YaraAmplix OPTITRAC

Stimulates flowering and fruit set.



Yara Solid Fertilisers

Yara offers the best performing and most reliable solid fertiliser in the UK. If you are using solid fertiliser, we can provide you with our range top quality Nitrogen Sulphur grades, to true uniform NPKS compounds to fulfil your nutrient needs.

YaraBela Nitrogen + Sulphur Fertiliser

Nitrate-based fertilisers are the most efficient form of nitrogen



YaraBela nitrate-based offer the required precision efficiency and reliability to meet the agronomic and environmental imperatives of modern agriculture. Nitrate nitrogen has been proven to be the best form of nitrogen for UK farming conditions.

Stronger

YaraBela granules are stronger so will not shatter when spread

36m

YaraBela fertilisers are easily spread to 36m and beyond

Heavier

YaraBela granules are heavier so perform better even in windier conditions

All YaraBela fertilisers are granular compounds offering the best quality and spreadability. Remember if the bag says Yara, you can be assured of the fertiliser quality within the bag.

Why choose YaraBela nitrate-based fertiliser?

Agronomic efficiency

- **Immediately available nitrogen** - Nitrogen present as nitrate and ammonium, immediately available for plant uptake
- **Highly soluble sulphur** - When included sulphur is present as calcium sulphate which is highly soluble so reaches plant roots quickly
- **Higher yield than urea** - At identical nitrogen application rates, nitrates offers 2 – 5% higher yield than urea based fertilisers
- **Enhanced protein** - Nitrate fertilisers enhance protein content by 0.3 – 0.9% compared to urea-based fertilisers.

Environmental benefits

- **Low volatilisation losses** - Volatilisation losses from ammonium nitrate fertilisers are 1 – 3%, compared with up to 27% from urea
- **Reduced leaching** - High nitrogen efficiency, fast uptake and lower dosage giving better control over residual nitrogen
- **Low carbon footprint** - The life cycle carbon footprint of YaraBela nitrate fertilisers is 12.5 % lower than for urea based fertilisers
- **Low environmental index** - The overall environmental index of YaraBela is 46.6 % lower than for urea fertilisers.



Yara Solid Fertilisers

YaraMila Compound NPKS Fertilisers

The exact analysis in every granule



If you are looking to provide NPKS nutrition to your crops, our range of true uniform compound NPKS fertilisers contain nitrogen, phosphorus, potassium and sulphur in each granule or prill, assuring accurate and even distribution.

Our YaraMila range provide the most essential plant nutrients – designed to meet specific crop requirements to maximize crop yield and quality. When you apply nutrients using a true compound fertiliser you avoid the risk of segregation and uneven distribution that a blended fertiliser may produce. With YaraMila you also have the reassurance of a fully traceable fertiliser, manufactured sustainably and ethically.

Why choose YaraMila compound fertiliser?

Flexible nutrient combinations

- **No nutrient segregation** - All nutrients are contained in every prill or granule so there can be no risk of nutrient segregation during shipping, handling or spreading
- **Even nutrient application** - All nutrients are applied evenly to the whole crop avoiding uneven application and yield losses
- **Range of nutrient ratios** - A wide range of N:P:K + S ratios and availability of formulas with secondary and micronutrients ensure there is a YaraMila fertilisers for all crop situations
- **Sulphur included** - Almost all formulations now include sulphur ensuring balanced fertilisation without the need for an additional sulphur fertiliser.
- **Additional nutrients** – Many YaraMila fertilisers also contain micronutrients essential for specific crops. These may include boron, iron, manganese, molybdenum, zinc and/or selenium.

Efficient nutrient sources

- **Balanced nitrogen source** - Nitrogen is present at 40-45% as nitrate-N and 55-60% as ammonium-N, depending on the production process and the specific formula.
- **Fast nitrogen uptake** - High nitrate-N content ensures a quick response to nitrogen, while the ammonium-N is important to keep a sustained delivery of nitrogen
- **Available phosphate** - Phosphorus is fully plant available, as water soluble ortho- and polyphosphates and ammonium citrate soluble di-calcium phosphate. The combination of different forms gives greater and a longer lasting availability of phosphorus to crops
- **Alternative potassium sources** - Potassium is included as MOP (Muriate of Potash - potassium chloride) or SOP (Sulphate of Potash -potassium sulphate). Products based on SOP are specially for crops with low chloride tolerance whilst MOP based products are suitable for all other crops.



Yara Solid Fertilisers

YaraVera Urea-based fertilisers

Cost effective sources of
nitrogen and sulphur



YaraVera AMIDAS is a highly concentrated source of nitrogen and sulphur. This high quality compound is a cost effective option for use on all crops.

Within this range we have products that have an added inhibitor, which is designed to deliver a more efficient use of nitrogen. For example, our YaraVera AMIPRO contains NBPT, a urease inhibitor, which delays urea degradation and keeps nitrogen in the soil for longer, avoiding the volatilisation losses seen in straight urea products. Trials have shown the inhibitor to reduce these losses to as low as 5%.



YaraVera AMIDAS

YaraVera AMIDAS (40% N + 14% SO₃) is a sulphur enriched granular compound urea-based fertiliser delivering higher yield results than urea alone for use on arable crops and grassland.

YaraVera AMIDAS is formulated to supply Nitrogen and Sulphur to a wide range of arable crops and grassland. Its 7:1 N to S ratio is ideal for oilseed rape and other brassica crops. Combining urea with sulphur increases nitrogen use efficiency.



Yara Farmers Toolbox

Digital tools to help you achieve the best yield possible

Information and knowledge are essential. Our suite of tools help you to make better nutrient decisions, in making the right fertiliser choice. Applying the right amount of nutrients at the right time and in the right place, so that the crop yield and quality can be maximised, whilst keeping costs in check, avoiding over-fertilisation and protecting the environment.



Atfarm precision nitrogen management made simple

Atfarm is an online service to help farmers manage crop nitrogen by combining state of the art technology with Yara expertise.



N-Sensor to variably apply nitrogen

The Yara N-Sensor is a variable rate sensor that measures crop nitrogen requirement at the time of application and variably adjusts the fertiliser rate accordingly.



N-Tester BT to measure leaf nitrogen

Yara N-Tester BT is a handheld leaf nitrogen measurement tool that enables quick and easy readings to be taken in a growing crop to establish its exact nitrogen status.



Soil testing and analysis to identify limiting factors

Soil testing and analysis gives the background knowledge on the chemical, physical and biological status of a soil that we need in order to properly manage our soils and crops.



Tankmix an easier way to check physical compatibilities

Yara Tankmix is an app and online service that checks for physical compatibilities or tank-mixability when using YaraVita foliar crop nutrition products with other crop protection products.



Fertiliser calculators to compare costs

A useful collection of calculators to compare the return on investment and margin over fertiliser when using different fertilisers.



Product Range

England and Wales

YaraMila™



27-5-5
+6%SO₃

25-5-5
+5%SO₃+Se

22-0-14
+7.5%SO₃

22-4-14
+7.5%SO₃

20.6-8.2-11.6
+6.5%SO₃

YaraLiva™



15.5%N+19%Ca

15.4%N+18.3%Ca
+0.3%B



20-4.5-14.5
+7.5%SO₃+Se

15.6-14.6-14.6
+5%SO₃

15-9-20+
9.5%SO₃

13.6-13.6-20.6

12-11-18+
20%SO₃

YaraBela™



33.5%N

27%N+9%SO₃

26%N+35%SO₃

25%N+5%SO₃+Se

24%N+15%SO₃

YaraVera™



40%N+14%SO₃

40%N+14%SO₃
(protected urea)

46%N
(protected urea)

46%N

YaraVita™



GRAMITREL

BRASSITREL PRO



About Yara

Yara grows knowledge to responsibly feed the world and protect the planet. Supporting our vision of a world without hunger and a planet respected, we pursue a strategy of sustainable value growth, promoting climate-friendly crop nutrition and zero-emission energy solutions. Yara's ambition is focused on growing a climate positive food future that creates value for our customers, shareholders and society at large and delivers a more sustainable food value chain.

To achieve our ambition, we have taken the lead in developing digital farming tools for precision farming, and work closely with partners throughout the food value chain to improve the efficiency and sustainability of food production. Through our focus on clean ammonia production, we aim to enable the hydrogen economy, driving a green transition of shipping, fertilizer production and other energy intensive industries.

Founded in 1905 to solve the emerging famine in Europe, Yara has established a unique position as the industry's only global crop nutrition company. We operate an integrated business model with around 17,000 employees and operations in over 60 countries, with a proven track record of strong returns. In 2023, Yara reported revenues of USD 17.3 billion.

