

**LIMEX70**

# cereals

maximise your yields  
and crop profitability

**LimeX70**, produced by  
British Sugar, is the ultimate  
performer to correct soil  
acidity and maintain  
target pH for cereals



# Take control of your cereals

Follow this step-by-step approach and realise the full profit potential of

## Cereals are sensitive to sub-optimal pH

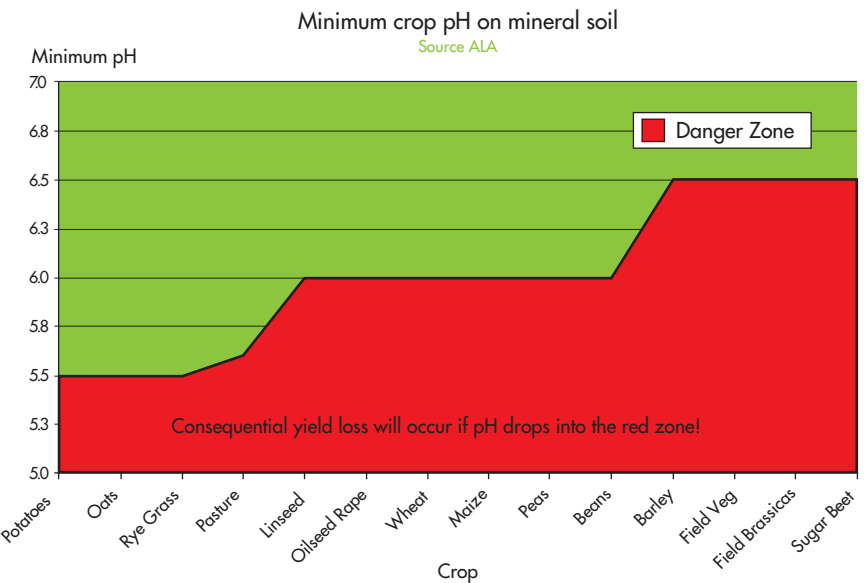
Yield losses can be severe if soil pH status is overlooked. For example, in a long-term liming trial carried out at Rothamsted, yields of Barley were reduced by 2.0t/ha when pH reduced from the target 6.5 to 5.5!

Farmers need to underpin their liming requirement in advance of growing their most acid sensitive crop within the rotation. Typically, sugar beet, barley, oilseed rape and wheat can be susceptible species, as shown in the graph right, but not exclusively!

Once pH drops from the optimal range it will continue to decline into the 'danger zone' where the potential for yield loss can be catastrophic, and the cost to rectify this increases significantly.

Typically, cultivations, leaching and the impact of nitrification can combine to reduce pH, equivalent to using more than 1 tonne of calcium carbonate per hectare per year. Crop use by comparison is minimal.

Therefore, by using fast-acting maintenance applications of LimeX70, pH can be



managed in advance for more sensitive crops, with the potential to benefit the remainder of the rotation, until pH testing for subsequent sensitive crops is required again.

Many growers apply LimeX70 as a maintenance dressing pre-drilling in the autumn or, in the case of light land, in the spring prior to planting; adopting a cultivation strategy to ensure the LimeX70 is well incorporated into the top 20cm to optimise crop development.

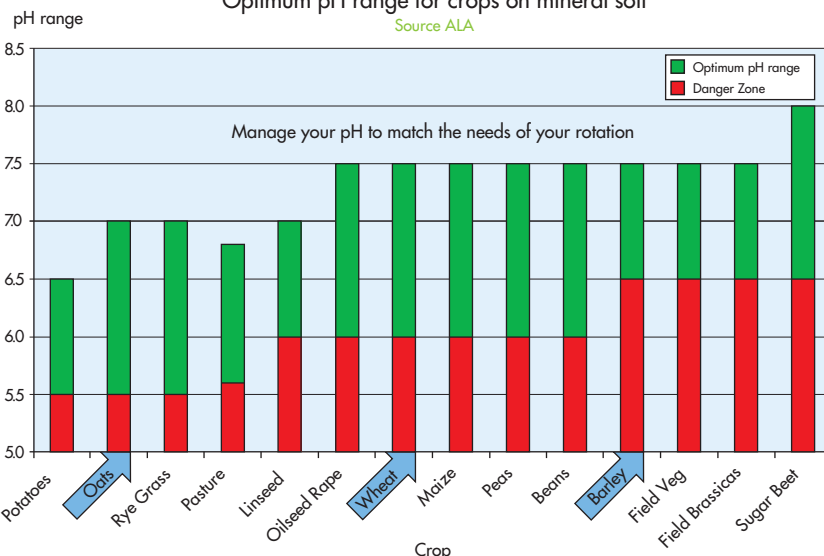
## Unique Product Benefits

- Very fine particle size** – ensures fast-acting & lasting pH correction
- Dry substance level** – minimises dust when spreading
- Nutrient content** – provides useful contribution to soil fertility
- Organic approval** – via the Soil Association
- Storage robustness** – offers on-farm flexibility

## Comprehensive Customer Service

- All-year national availability** – flexible for all rotational needs
- Soil sampling & pH mapping** – for accurate determination of liming requirement
- FACTS-qualified staff** – giving you a targeted liming recommendation
- Self-collect or delivered & spread options**
- Flexible payment options**

## Optimum pH range for crops on mineral soil



S!  
your land.



## 1 pH testing

If you suspect your land is too acidic or simply want reassurance, then the first step is to undertake an accurate field pH map.

Our dedicated LimeX team offers a professional soil sampling and pH mapping service, with optional nutrient testing, across much of the UK. Soil samplers are trained to high standards, offering 'field walked' or 'ATV driven' options.

In addition to creating the data for field assessment, field maps also assist hauliers to locate tipping points and ensure spreading contractors have the specific 'field by field' detail they require for overall or part field treatment.

**LimeX70 Particle Size:** comparison with common liming products (% passing through sieves)

	5mm	3.35mm	150 micron
LimeX70	99	97	85
Screened Limestone	100	95	20
Mg Ground Limestone	100	95	40
Mg Screened Limestone	100	95	20
Chalk	92	85	66

One tonne of LimeX70 contains a minimum content of:

Total P <sub>2</sub> O <sub>5</sub>	10kg/t
Total MgO	7kg/t
Total SO <sub>3</sub>	9kg/t

Can be included in fertiliser balance for following crop

See back page for more detail on the value of these nutrients

# LIMEX70

## LimeX70 Application Rates (for 1 pH unit increase)

Soil Type	Arable (20cm depth) Tonnes / hectare (Tonnes / acre)
Sands	9.0 (3.6)
Light	10.5 (4.3)
Medium to Clay	12.0 (4.9)
Organic	16.5 (6.7)

## 2 Treatment recommendations

FACTS-qualified members of the LimeX team review the results to give an accurate basis for subsequent technical recommendations that take into account any specific crop rotation or other requirements. Precision at this stage provides total confidence in the level of LimeX required and ensures outstanding cost-efficiency.

More detailed information for other rotations is available at [www.limex.co.uk](http://www.limex.co.uk).



## 3 Supply and spreading

A popular approach is our "delivered & spread" package, comprising experienced haulage and spreading contractors providing a professional, timely and cost-effective service.

An alternative option is to take full advantage of the "back-loading" opportunity available from all our sites during the beet campaign. We can arrange it so that a returning haulier brings LimeX70 straight to your farm, so saving you money.

Customers can collect ex-factory if they prefer.



# Realising the nutrient value

A unique advantage of LimeX70, and an important one regarding overall farm costs, is the value of the nutrients integral in the product. The information below shows the minimum levels for three important nutrients and their value to your enterprise using the Fertiliser Manual (RB209 8th Edition 2010) as a guide.

## Sulphate (SO<sub>3</sub>)

- Minimum of 9kg in every tonne of LimeX70
- At a LimeX70 application rate of 5 tonne/hectare (2t/acre) this equates to 45kg/hectare of SO<sub>3</sub> worth £7.20 (25-40kg SO<sub>3</sub>/ha is recommended where deficiency may occur)
- This is a valuable contribution and may reduce the risk of SO<sub>3</sub> deficiency

## Phosphate (P<sub>2</sub>O<sub>5</sub>)

- Minimum of 10kg in every tonne of LimeX70
- At a LimeX70 application rate of 5 tonne/hectare (2t/acre) this equates to 50kg/hectare of P<sub>2</sub>O<sub>5</sub> worth £47.00
- This is sufficient maintenance phosphate for many cereals at P Index 2 (range 45-60kg/ha)

## Magnesium (MgO)

- Minimum of 7kg in every tonne of LimeX70
- At a LimeX70 application rate of 5 tonne/hectare (2t/acre) this equates to 35kg/hectare of MgO worth £13.30
- Add 50-100kg/MgO at Mg Index 0 and 1 every 3 to 4 years.

The combined value of these integral nutrients is around

**£80.00 per hectare**

inclusive of the saving of application.

# LIMEX70



MgO  
SO<sub>3</sub>  
P<sub>2</sub>O<sub>5</sub>

## pH-nutrient maintenance

The above values are based on the market-average price of proprietary nutrients and were correct at the time of printing. The most up-to-date values are available on our website [limex.co.uk](http://limex.co.uk)

To discuss your liming requirement or for technical enquiries, contact our **Helpdesk 0870 240 2314** or visit our website [limex.co.uk](http://limex.co.uk)

Alternatively, e-mail us at [limex@britishsugar.com](mailto:limex@britishsugar.com)

# LIMEX