

LIMEX45

sugar beet

maximise your yields
and crop profitability

LimeX45, produced by British Sugar, is the ultimate performer to correct soil acidity and maintain target pH in sugar beet

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UK's No.1
Liming product
for correction
of soil acidity



Take control of your sugar

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

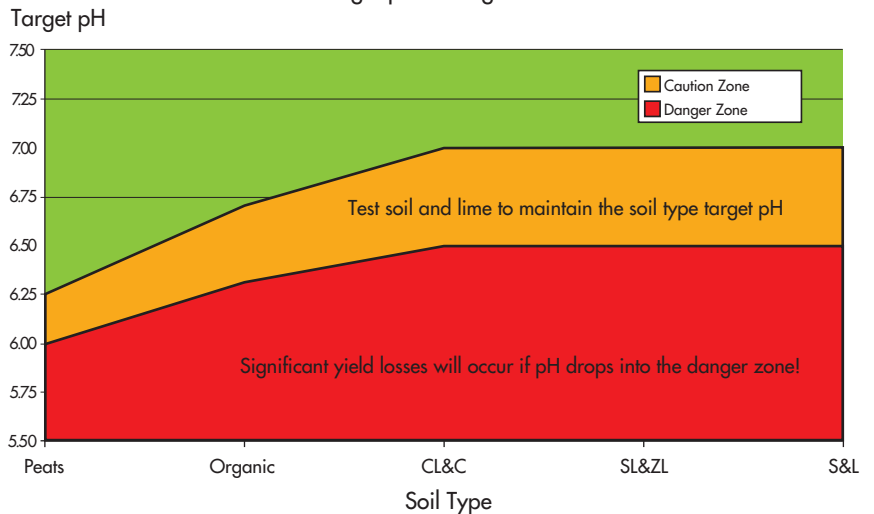
Sugar beet is highly sensitive to sub-optimal pH

Yield losses can be severe if soil pH status is overlooked. Therefore many sugar beet growers underpin their liming requirement in advance of growing sugar beet. Soil type plays a part in this and the graph below shows the target pH for given soil types.

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

Therefore, by using fast-acting maintenance applications of LimeX45, pH can be managed in advance of sugar beet, and has the potential to benefit the

Target pH for sugar beet



In summary, target pH is 7.0 on mineral soils, pH 6.7 on organic soils, and pH 6.3 on peaty soils.

remainder of the rotation, until pH testing for subsequent sugar beet crops is required again.

Many growers apply LimeX45 as a maintenance dressing in the autumn, or in the case of light land, in the spring prior to planting; and adopt a cultivation strategy to ensure the LimeX45 is well incorporated into the top 20cm to optimise crop development.

Unique Product Benefits

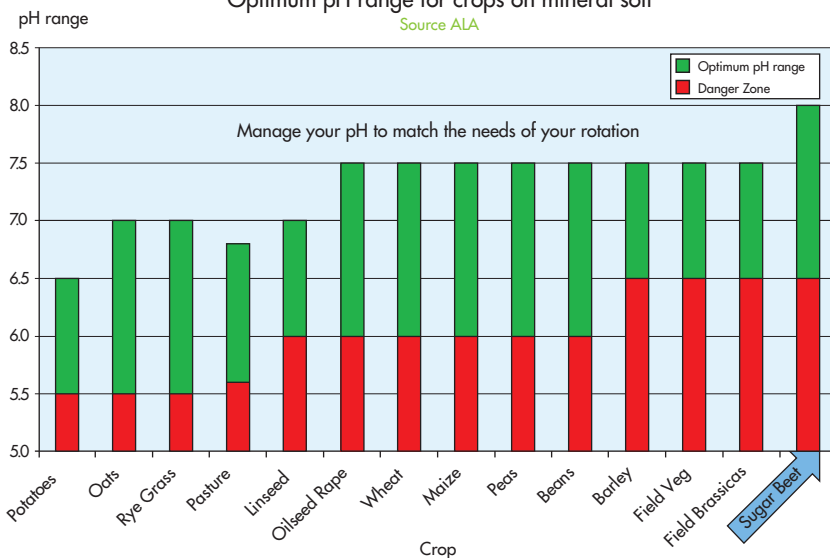
- Very fine particle size** – ensures fast-acting & lasting pH correction
- Dry substance level** – minimises dust when spreading
- Nutrient content** – provides useful contribution to soil fertility
- Organic approval** – via the Soil Association
- Storage robustness** – offers on-farm flexibility

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

Source ALA



beet!

land.

LIME X45

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.

LimeX45 Particle Size: comparison with common liming products (% passing through sieves)

	5mm	3.35mm	150 micron
LimeX45	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 LimeX45 contains a minimum content of:

Total P ₂ O ₅	7kg/t
Total MgO	5kg/t
Total SO ₃	9kg/t

Can be included in fertiliser balance for following crop

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

LimeX45 Application Rates

(for 1 pH unit increase)

Soil Type	Arable (20cm depth) Tonnes / hectare (Tonnes / acre)
Sands	12.0 (5.0)
Light	14.0 (6.0)
Medium to Clay	16.0 (6.5)
Organic	20.0 (8.0)

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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.



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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 LimeX45 straight to your farm, so saving you money.

Customers can collect ex-factory if they prefer.



Realising the nutrient value

A unique advantage of LimeX45, 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 (SO₃)

- Minimum of 9kg in every tonne of LimeX45
- At a LimeX45 application rate of 7 tonne/hectare (3t/acre) this equates to 63kg/hectare of SO₃ worth £10.70 (25-40kg SO₃/ha is recommended where deficiency may occur)
- This is a valuable contribution and will reduce the risk of SO₃ deficiency

Phosphate (P₂O₅)

- Minimum of 7kg in every tonne of LimeX45
- At a LimeX45 application rate of 7 tonne/hectare (3t/acre) this equates to 50kg/hectare of P₂O₅ worth £35.00
- This is sufficient maintenance phosphate for sugar beet at P Index 2 (50kg/ha)

Magnesium (MgO)

- Minimum of 5kg in every tonne of LimeX45
- At a LimeX45 application rate of 7 tonne/hectare (3t/acre) this equates to 35kg/hectare of MgO worth £14.00
- This provides approximately 50% of the recommended magnesium at Mg Index 1 (75kg/ha)

The combined value of these integral nutrients is typically

£70.00 per hectare

inclusive of the saving of application.

LIMEX45



MgO
SO₃
P₂O₅

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

To discuss your liming requirement or for technical enquiries, contact our **Helpdesk 0870 240 2314** or visit our website limex.co.uk

Alternatively, e-mail us at limex@britishsugar.com

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