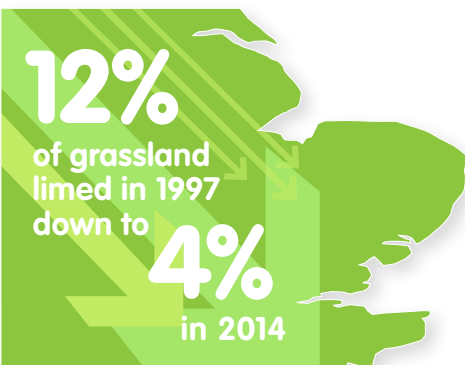


grassland

invest in your grassland
and improve your yield

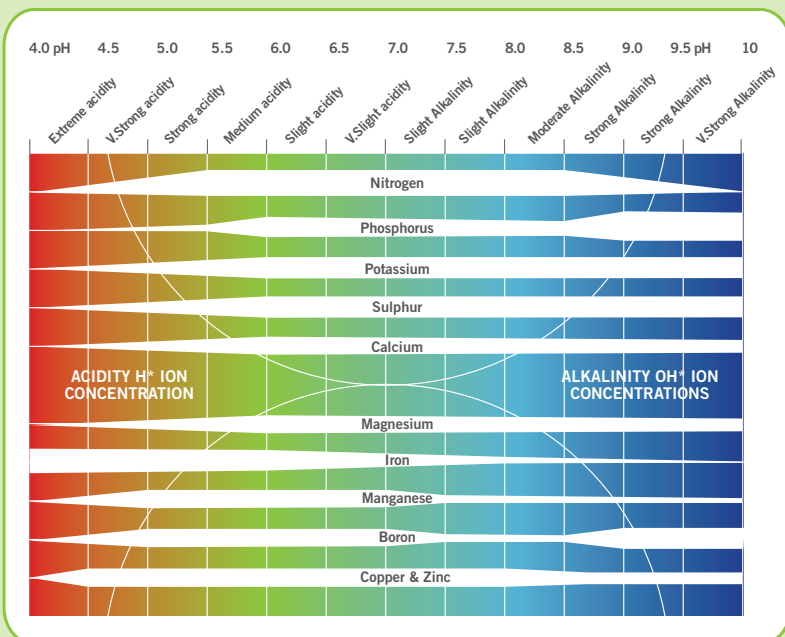
Reliable evidence from the British Survey of Fertiliser Practice illustrates a significant decline in grassland liming in recent years. However, maintaining the pH of your grassland at the optimum level ensures you achieve maximum returns from your livestock.



Soil pH is a factor driven by calcium, magnesium and potash levels, therefore when interpreting soil analysis look for any limiting nutrient. In grassland, whilst pH may appear adequate, soil calcium can often be deficient. LimeX will significantly increase available calcium to rectify this. Target grassland to at least pH 6.5, where possible, especially when using legumes within the sward mix



The effect of soil pH and nutrient availability



Reduction in the uptake of nutrients and applied fertiliser due to low pH can have a significant impact on yield potential.

Research has shown dramatic losses in nutrient utilisation can occur in low pH conditions.

Even 'mildly' acid conditions can have a major impact on nitrogen and phosphorous efficiency – can you afford to ignore this risk?

pH and fertiliser efficiency

Nutrient efficiency (utilisation)			
Soil pH	N	P	K
4.5	30%	23%	33%
5.0	53%	34%	52%
5.5	77%	48%	77%
6.0	89%	52%	100%
7.0	100%	100%	100%

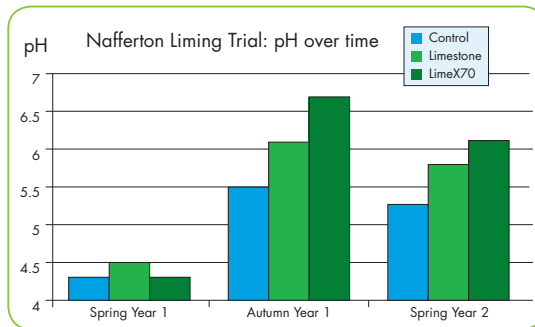
LimeX - the right choice proven scientifically

Achieving market leadership has been about a commitment to excellence through investment in plant and people and importantly in scientific studies.

Liming trials conducted by the University

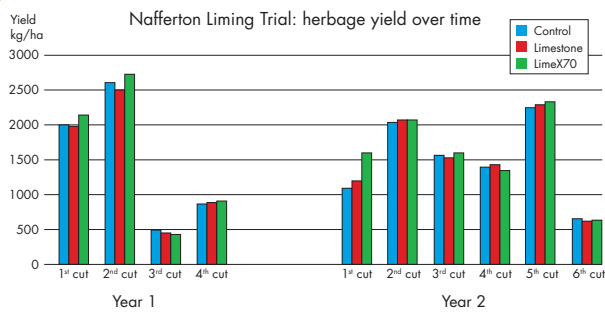
of Newcastle upon Tyne demonstrated LimeX70's ability to raise pH more rapidly than a traditional limestone product.

As the graph (right) shows, LimeX70 provided the best pH uplift, reflecting its very fine particle size and unrivalled reactivity.



Higher Yields

In addition, yield responses were highest where LimeX70 was applied, along with increases in nitrogen uptake and hence crude protein. The table (left) demonstrates that LimeX70 has tended to give the herbage yield advantage, probably linked to improved Nitrogen utilisation.



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

LimeX70 Application Rates (for 1 pH unit increase)

Soil Type	Grassland (15cm depth) Tonnes / hectares (Tonnes / acre)
Sands	7.5 (3.0)
Light	7.5 (3.0)
Medium to Clay	9.0 (3.6)
Organic	10.5 (4.3)
Peat/Peaty	10.5 (4.3)

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 plant nutrients and their value to your enterprise using the Fertiliser Manual (RB209 8th Edition 2010) as a guide.

These 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

Phosphate (P₂O₅)

- 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 P₂O₅ worth £35.00
- Provides maintenance phosphate for many grassland situations (range 20-90kg/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 £14.00
- Provides 33-50% sufficient maintenance magnesium for grassland.

Sulphate (SO₃)

- Minimum of 6kg in every tonne of LimeX70
- A 5 tonne/hectare (2t/acre) LimeX70 application provides 30kg/hectare of SO₃ worth £3.00 (25-40kg SO₃/ha is recommended where deficiency may occur before each silage cut.)

The combined value of these integral nutrients is typically

£60.00 per hectare

inclusive of the saving of application



To discuss your liming requirement or for technical enquiries, contact our:

Helpdesk 0870 240 2314

Alternatively email: limex@britishsugar.com

Or visit our website: limex.co.uk

LIMEX

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