Benefits

- **Ideal for conacre or leased land - fast reaction, immediate benefit**
- Fast reaction - product starts working immediately with moisture
- Improves fertiliser and slurry performance
- Improves crop quality and yield
- Allows more flexibility when sowing crops
- Cost effective: higher yield - more profit
- Suitable for small and large areas
- Can be top dressed onto struggling crops
- Suitable for grassland and tillage
- Easier to apply on wet and hilly land, smaller equipment required.

Michael Cloney
Curracloe, Co. Wexford

Michael Cloney is farming over 800 acres of tillage just outside Curracloe Co. Wexford. He sows a mixture of wheat, barley & oilseed rape on owned, conacre and leased land.

"I take conacre and leased land every year - the pH level tends to be low in this type of ground. I think it's essential to have the optimum pH level for the crop, it allows plants to uptake nutrients getting maximum yield and you're not wasting expensive fertiliser. I have used Growmax for the last two years and found it extremely effective - it allowed me to grow good quality crops in low pH soils. It gives the soil an instant pH rise and it's easy to apply, saving time at the busy sowing period. Growmax allows me to get the most out of my land and fertiliser. The results speak for themselves."

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WHITE RHINO
NATURAL STRENGTH OF LIME

9951 www.akgraphics.ie Oct 2013

Growmax

New Unique Lime Product

TNV of 165
Calcium content of 68%

What is Growmax?

Growmax is a quick acting soil improver.
It is a granular quicklime product with the following characteristics:

- Total neutralising value of Growmax is 160-170 compared to 90-98 for granulated limestone
- Rapidly raises soil pH, thus releasing valuable nutrients for plant uptake
- Promotes microbial life which aids release of plant nutrients from animal and plant litter
- Can significantly increase pH with a single application if required
- Supplied in 375kg bags - 4 bags per 1.5t pallet
- Growmax reacts with water generating heat. **Always** use eye protection and do not spread in windy conditions

Why use Growmax?

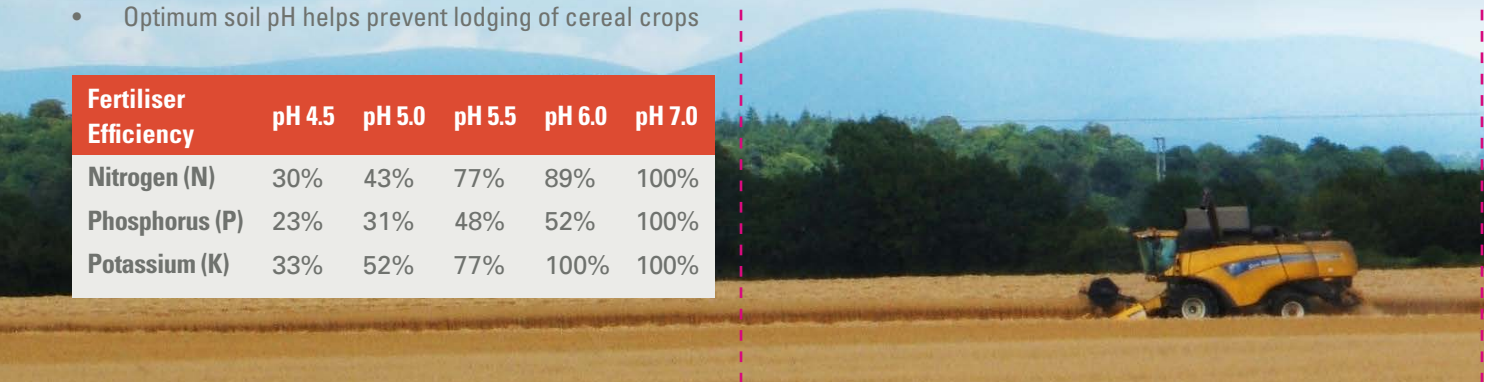
- Allows farmers to:
  - Rapidly achieve optimum soil pH
  - Easily maintain optimum soil pH
- Improves N, P and K uptake by plants, adds calcium to soil
- Farmers can apply using their own fertiliser spreader - no need for contractors, thus reducing costs and soil compaction
- Facilitates successful establishment of tillage crops and grass in lower pH soils
- Raises pH of old grass swards rapidly, promoting growth and breakdown of organic material
- Improves tillage and grassland yield
- Optimum soil pH helps prevent lodging of cereal crops

Fertiliser Efficiency	pH 4.5	pH 5.0	pH 5.5	pH 6.0	pH 7.0
Nitrogen (N)	30%	43%	77%	89%	100%
Phosphorus (P)	23%	31%	48%	52%	100%
Potassium (K)	33%	52%	77%	100%	100%

Application

- **Farmers can spread using standard fertiliser equipment**
- This will depend on soil type and current pH level
- Soil test to determine current pH level
- Max rate of 1 ton per Ha in any given season
- The most effective way to apply product is on the seedbed and harrow in
- Can be surface applied to grassland or struggling tillage crops

For appropriate rate contact one of our agri advisors in Clogrennane.



Soil acidity on grassland and tillage crops

	pH	Effect
>	8.0	Overlimed: Low availability of trace elements, especially Mn and B
Optimum range for efficient use of N and P fertiliser	7.2	Top of optimum range for efficient use of N and P fertiliser
	7.0	Optimum pH for white clover, beet (sugar and fodder), beans, peas and oilseed rape
	6.5	Optimum pH for barley, wheat and maize
	6.3	Optimum pH for grass
	6.2	Bottom of optimum range for efficient use of N and P fertiliser for most crops. Maximum pH for grass on high Mo soils
	5.8	Optimum pH for potatoes/oats
	5.5	Optimum pH peats
<	5.0	Very acidic. Al and Mn toxicity

Cost Saving Benefit

- If you do not keep your pH in the opimum range you will lose €60 of nitrogen per Ha
- Raising your pH by 0.5 will increase grass yield by 1.5 tons of dry matter per Ha