



# Latest trials support better yields and quality when applying Sulphur

2015 was a typical Sulphur responsive year

## Sulphur benefits yield

- Sulphur has increased yields by at least 0.5t DM/ha
- An extra 0.5t DM silage at 11 ME costs £40 to make (£80/t DM)
- If used at 75% efficiency, this gives an extra 4,125 MJ ME per ha and will make 764 litres of milk (benefit after cost of at least £125/ha)
- The same energy can be used to replace 0.33t concentrate (benefit after cost of at least £25/ha)

### Sulphur increases first cut yields in 2015

Grass DM yield (t DM/ha)	Nitram®	MultiCut® Sulphur	SingleTop®
Leicestershire Field 1	2.8	4.6	Not applied
Leicestershire Field 2	3.6	4.0	Not applied
Willand, Devon	3.9	Not applied	4.5

## Sulphur benefits quality

- Improved protein and sugar contents will increase DM intakes
- 1kg extra silage DM intake per cow per day at 11 ME equates to 2 litres milk or 0.88kg concentrate less fed
- That's an opportunity of an extra 48p per cow, per day in milk or a saving 16p per cow, per day in less concentrate fed

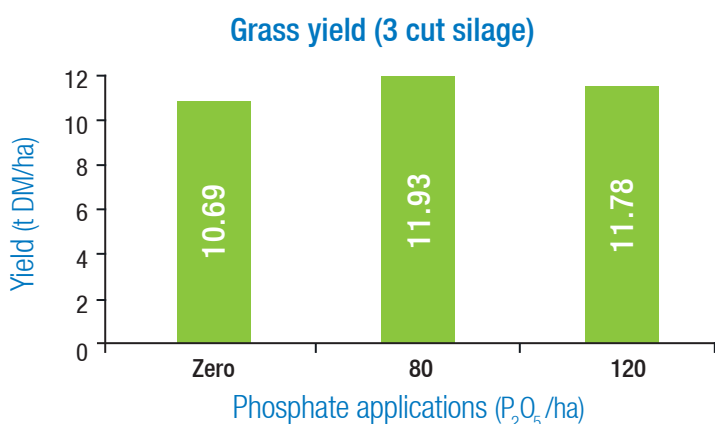
### Sulphur increases first cut grass quality in 2015 (South West England)

Quality (% in DM)	Shepton Mallet		Wellington	
	100kg N/ha applied		100kg N/ha applied	
	Nitram®	SingleTop®	Nitram®	SingleTop®
NDF	43	32	38	38
D Value	71	72	71	73
Sugars	18.8	18.1	17.5	19.7
ME	11.1	11.3	11.1	11.4
Crude Protein	13.5	15.4	14.5	16.1

## Maintenance Phosphate applications increase grass yield, even at P soil index 2/3



- Replicated experiment at Reaseheath College, Cheshire in 2014
- Clay loam soil, pH 6.5, P index 2/3, K index 2-
- 240kg N/ha over 3 cuts (90/90/60) with P applied for each cut (40/25/15, or 60/38/22)
- RB209 (Fertiliser Manual) says apply 80kg P<sub>2</sub>O<sub>5</sub>/ha at P index 2 and 20kg at P index 3
- +12% DM yield response shows benefit of maintenance P applications



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## AN or Urea?

- Response to urea depends on air temperature and rainfall in the three days after application
- Urea use in spring is only for those who are prepared to apply when the weather forecast is right
- If you are not prepared to apply urea according to the weather forecast, don't use it and rely on AN that doesn't lose as much Nitrogen to the atmosphere
- With Nitram product density at 1,000kg/m<sup>3</sup> and urea density at 750kg/m<sup>3</sup>, any spreader hopper will contain the same kgs Nitrogen whether it contains Nitram or urea

## Example from Cheshire for spring 2015

- 80% of 2015 spring application days show grass yield benefit of AN over urea
- 13% average grass yield advantage (comparing kg for kg AN vs. urea Nitrogen)
- Based on Cheshire weather data for 15th February to 15th May 2015

**Ammonium Nitrate – reliable growth response, more suited to UK conditions.**

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