2016 NEW R&D

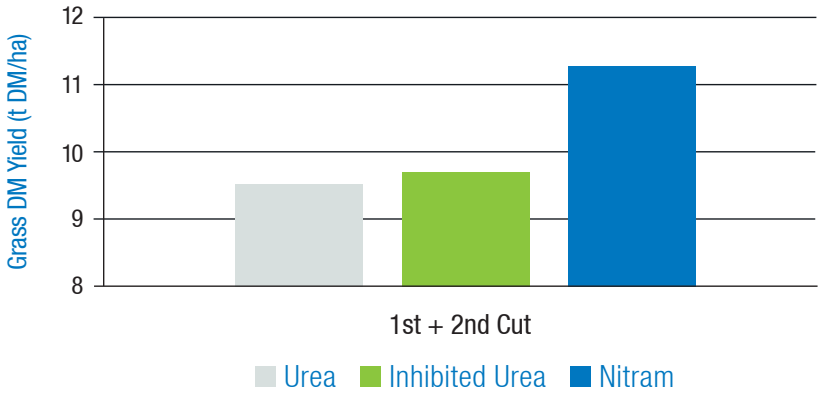
Ammonium Nitrate or Urea?

Choosing urea may save money upfront, but could cost you a lot more in productivity. Save £1.00 and lose £7.40 by using urea instead of reliable Ammonium Nitrate (AN).

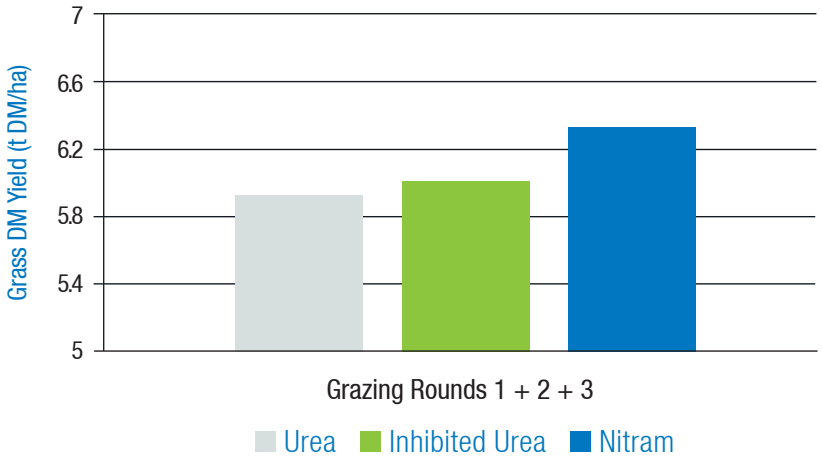
There is a good reason AN from CF Fertilisers (Nitram®) has been the market leading Nitrogen fertiliser for British grassland farmers for more than 50 years. It is British made, lower carbon and is produced to the same high quality every year. We have all heard about how it is lower in losses than urea but new research from 2015/16 has shown that it outshines both urea and inhibited urea for grass growth in spring and early summer.

Replicated trials at Reaseheath College over two years have shown that AN (Nitram) delivers more than the cheaper competition in both grazing and silage management.

Silage yields – Reaseheath College, 2015/16 combined



Grazing yields – Reaseheath College, 2015/16 combined



Over the two years, Nitram grew an average of 1.7t grass silage DM/ha more than urea – an 18% difference. Nitram increased grass DM yield by more than 7% over the first 3 grazings – an average of 0.4 t DM/ha.

View our helpful video online at:
www.cffertilisers.co.uk/anvurea

Blue bags grow better crops

CF®

Quality In, Quantity Out.

Can you afford not to realise these benefits? Just look at the numbers…

- Over an 80 ha (200 acres) grassland block, from spring growth to second cut silage in July, using urea reduced grass energy yield by 850,920 MJ ME per year.
- This amount of energy is enough to produce 158,000 litres of milk per year.
- The amount of lost dry matter over 80 ha would require the purchase of 385 tonnes of silage fresh weight (£9,625 @ £25/t silage) each year.

These costs are much higher than the saving on fertiliser over the 80 ha (£1,304 with AN @£180/t and urea @£210/t).

So, using urea and inhibited urea products can save your system a little (£16.3/ha; £6.6/acre) but in the end cost you a lot (£120.3/ha; £48.7/acre).

WARNING: The performance of urea Nitrogen is dependent on the rainfall and temperature in the three days after application, with dry and mild conditions increasing the risk of N loss to the air as ammonia and reduced grass yields. The risk of N loss from urea fertilisers under UK spring weather conditions is too high – don't risk the yield of your cheapest feed and grass. Use UK AN; it's reliable, consistent and profitable.

Are you sure that your P&K indices are high enough to be using just straight N?

These systems will ensure you are getting the best results:

Dairy Cows Conventional Grazing

Timing	Product	Rate kg/ha	N	P_2O_5	K_2O	SO_3
Late February/March	Swardsman®	200	50	10	10	0
April	SingleTop®	160	43	0	0	19
May	Nitram®	12 5	43	0	0	0
June	KayNitro® Sulphur	160	40	0	21	11
July	SingleTop	150	40	0	0	18
August	SingleTop	150	40	0	0	18
	Total	**kg/ha**	**256**	**10**	**31**	**66**

Dairy Extended Grazing

Timing	Product	Rate kg/ha	N	P_2O_5	K_2O	SO_3
Late February	SingleTop	160	43	0	0	19
April	SingleTop	130	35	0	0	16
May	SingleTop	130	35	0	0	16
June	CropMaster® Sulphur	125	34	5	5	9
July	CropMaster Sulphur	125	34	5	5	9
August	CropMaster Sulphur	100	27	4	4	7
September	CropMaster Sulphur	100	27	4	4	7
	Total	**kg/ha**	**235**	**38**	**18**	**83**

Dairy High Input High Output Cutting

Use	Timing	Product	Rate kg/ha	N	P_2O_5	K_2O	SO_3
Cut 1	Late Feb/Mar	Slurry 6% DM	35m³/ha	32	*21**	*101**	*9**
	April	Nitram	250	86	0	0	0
Cut 2	May	Slurry 6% DM	35m³/ha	23	*21**	*101**	*9**
	May	MultiCut® Sulphur	350	81	14	46	25
Cut 3	July	MultiCut Sulphur	280	64	11	36	20
			Total	**286**	**67**	**284**	**63**

*To maintain soil indexes use the 'available nutrients' in the manures.

Find out more online at: **www.cffertilisers.co.uk**

CF Fertilisers UK Limited, Ince, Chester, Cheshire CH2 4LB