

LIME



- Still most important nutrient!
- Lots of types but check Neutralizing Value
- Magnesium / Calcium Limestone about 50-55%







NITROGEN

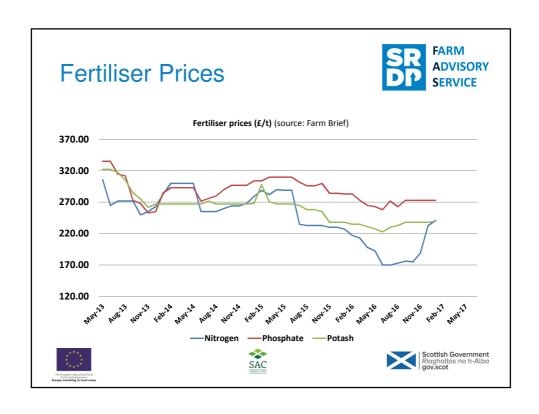


- Ammonium Nitrate made by the reaction of an acid and an alkali
- Eg: nitric acid + ammonia = Ammonium Nitrate
- Ammonia comes from combining Hydrogen in Natural Gas with Nitrogen in air = NH3
- · Very dependant on Oil price









Nitrogen



- Ammonium Nitrate (NH4NO3) 34.5% N
- Ammonium Sulphate (NH₄)₂SO₄ 21% N (24% S)
- Urea 46% Nitrogen
- · Compound fertilisers







Phosphate



Watersoluble – Eg Triple super phosphate 46% P2O5

Acid soluble Phosphates Rock Phosphates







Phosphate reserves

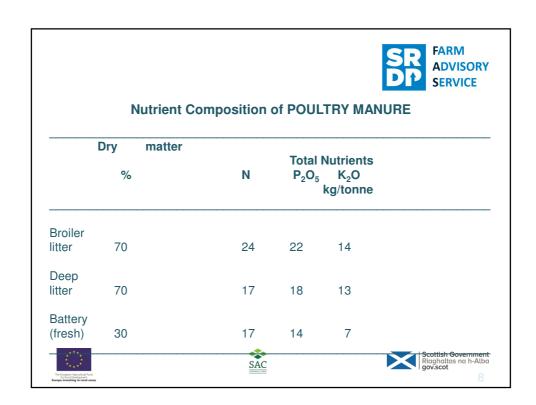


Country	Production (millions kg)	Est. Reserves (millions kg)
<u>China</u>	100,000	3,700,000
Morocco (including Western Sahara)	30,000	50,000,000
<u>United States</u>	27,600	1,100,000
<u>Russia</u>	12,500	1,300,000
<u>Jordan</u>	7,500	1,300,000
<u>Brazil</u>	6,700	315,000











Typical Nutrient Composition of Slurry

Dry matter

Total Nutrients P_2O_5 K_2O % N kg/tonne

3.2 Cattle 6% 2.6 1.2

Also Sulphur approx. 0.7% Nitrogen availability varies depending on time and method of application





