NITROGEN FOR MAIZE - MEASURING SOIL NITROGEN SUPPLY WITH CF N-MIN®

- Five years of trials (2000-2014) show use of measuring SNS
  - 100 crops and soils sampled (wide range of management and soils)
  - CF N-Min measures Readily Available N + Mineralisable N
  - SNS ranged from 55 to 580kg N/ha
  - SNS average was 130kg N/ha
  - Yield range from 4.9 to 21.4t DM/ha
  - Yield average was 14.2t DM/ha

- At zero N balance for all measurements

- Fertiliser N requirement to get 16t DM/ha yield was 100kg/N/ha

- Recommended approach
  1. Measure SNS with CF N-Min (March)
  2. Measure N content of slurry/manure applied
  3. Use SNS and farm data, together with RB209, to guide N-Requirement
  4. Purchased fertiliser N needed = (crop N required – N supplied in slurry)

NOTE — Reducing fertiliser N by JUST 10kg/ha will SAVE £650 on 100 acres of Maize
  - CF N-Min cost is £95