Project Update

Sugarcane: Nitrogen application rates

NSugarcane

0 1 - 28 29 - 58 59 - 89 90 - 104 105 - 123 124 - 150 151 - 187 188 - 234 235 - 283

[Map showing nitrogen application rates across different countries]
Project Update

Sugarcane: Potassium application rates
Project Update
Carbon Offset Credits

• Amendment to the American Clean Energy and Security Act 2009:
  – Carbon offset credits though afforestation in the United States
  – Quantifying the leakage to other countries in the case of cropland reduction in the U.S., i.e., replacement of high yielding U.S. cropland with lower yielding cropland elsewhere
Scenario: Afforestation

- Area displacement based on EPA analysis
- Greenhouse gas impacts
  - Enteric fermentation
    - Reduction in the U.S.: -1.087%
    - Global reduction: -0.087%
  - Nitrous oxide emissions
    - Significant reduction in the U.S.: -6.429%
    - Global emission: -0.39%
  - Land-Use Change
    - Increase in global emissions by 4.92%
- Net increase in global emissions: 1.06%