

# Panel Discussion: Comparing Nitrous Oxide Reduction Protocols

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SUSTAINABLE  
FOOD LABORATORY



- C-AGG June 16-17 Meetings
  - Interest generated
- Engagement and Sept 8<sup>th</sup> Webinar
  - Compared 3 NA protocols:
  - Winrock-American Carbon Registry
  - NERP-Fertilizer Institute
  - EPRI – Michigan State U
- Comparative Summary Table prepared
  - Handout

## **Background and Work to Date**

- **Objectives:**
- To provide an opportunity for N<sub>2</sub>O protocol practitioners to share their development stories, in this complex area
- To gain a mutual understanding of the basic assumptions, underlying science, scalability, implementation complexity, costs, risks and certainty for expected projects under the various protocols
- To benefit from what's been learned by each process, and discuss the areas of convergence and divergence

## **Webinar Objectives**

- Protocol Development Teams:
  - ACR – Winrock scientists; Geo Applied Solutions -Nick Martin presenting
  - NERP – ClimateCHECK, KHK Consulting, Fertilizer Institutes; IPNI – Rob Janzen presenting
  - EPRI-MSU – Phil Robertson/Neville Millar, Adam Diamant – Adam Diamant presenting

## Today's Panel

## Areas of Convergence

- Include direct/indirect N emissions sources a la IPCC
- Do not include soil carbon pools
- Include organic and inorganic N sources
- IPCC guidance followed generally

## Areas of Divergence

- Different 'Tiers' of Accounting – process models, empirical models
- Different accounting for N Input sources
- Complexity of implementation and data requirements

# Comparison – High Level