



# R&D Snapshot

## Reducing greenhouse gas potential of Australian soils with livestock manure

**Investigator:** Dr Sasha Jenkins, University of WA

**Purpose:**

- To evaluate the effectiveness of different mitigation strategies in reducing greenhouse gas (GHG) emissions following the application of piggery, poultry or feedlot manure to soils.

**Take home messages:**

- Under Western Australian conditions:
  - lowering soil application rates of manures to 5 t/ha has the potential to reduce GHG emissions by 60%
  - dry seeding with applied manure could result in up to 25% reduction in GHG emissions
  - incorporating some manure types directly into sandy soil, compared with surface application to soil, may reduce GHG emissions by up to 75%
  - composted or pelletised manures could reduce GHG emissions by up to 70% and 80%, respectively, when applied to land compared to stockpiled manures.

**Additional information:**

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**APL Project 2012/2402.466** – Mitigating the Greenhouse Gas Potential of Australian Soils Amended with Livestock Manure

