

## Data acceptance criteria Version 7 (7 April 2021)

For each experimental dataset, conduct an initial assessment of the scope of the experiment and of the experimental protocols to determine the suitability of each dataset for inclusion in the database:

**Source of data** includes published and non-published data. For non-published data, please note this data will eventually be in the public domain via the DataMan database.

### Database construction – guidelines:

- Emissions at block/rep level preferable, otherwise mean + SD/SEM + n
- Scan the data for acceptability e.g. measurement technique etc. and then collate only accepted data

### Accepted measurement techniques, protocols and available data.

#### Housing and Storage (CH<sub>4</sub>, N<sub>2</sub>O, NH<sub>3</sub>)

- Laboratory, pilot or commercial scale only (excludes modelling studies)
- Method: tracer gas x conc.; conc. x vent.; micro met; dynamic enclosure; static enclosure; experimental vessel
- Measurements are conducted for **6 days or more**,

#### Field data (N<sub>2</sub>O):

- Field-based studies only (excludes laboratory, greenhouse, modelling studies)
- Method: static enclosures, dynamic enclosure, micro met.
- Measurements are conducted for **14 days or more**,
- Trials included a non-amended control
- N<sub>2</sub>O emissions AND soil mineral N content return to background levels (non-amended control)
- Only one N source over measurement period i.e. no manufactured N applied,
- Trials conducted on drained organic soils are excluded.
- Activity data on N load must be available, or can be calculated from information provided,

#### Field data (NH<sub>3</sub>):

- Field-based studies only (excludes laboratory, greenhouse, modelling studies)
- Method: tracer tech; micro met; dynamic enclosures, windtunnels.
- Duration of measurements:
  - All manures apart from poultry: **1 days or more**.
  - **Poultry** manure experiments: **7 days or more** (to allow time for uric acid hydrolysis)
- Only one N source over measurement period i.e. no manufactured N applied,
- Trials conducted on drained organic soils are excluded.
- Activity data on N load must be available, or can be calculated from information provided.