

Characterization Study

Layer Industry

September, 2016

Purpose

Identify Characteristics of the regional Commercial Layer Industry to Improve the Model Data Inputs for Scenario Builder and the Phase 6 CBW Model

Identify	Layer Manure Types	How Grown	Avg. Weight	Manure Produced/tons/yr.	cleanout/yr.
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- Belt
- Pit

Status of Work Performed by Penn State Univ.

Intern contacted and collected current and historical data on layer facilities in Pennsylvania so far.

Information collected involved multiple integrators.

Status of work

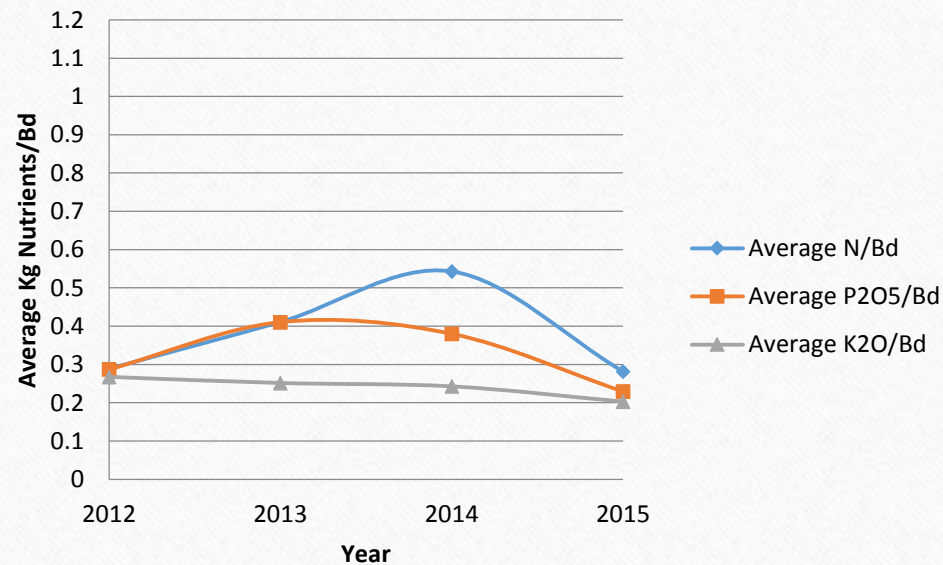
- Contacted and collected historical and current data from 19 layer production facilities so far, more to follow.
- Data representative of 15 pit manure systems and 4 belt manure systems.
- Collected manure samples which were sent to Penn State University for analysis.
- Identified following types of manure management systems for layers grown:

Belt

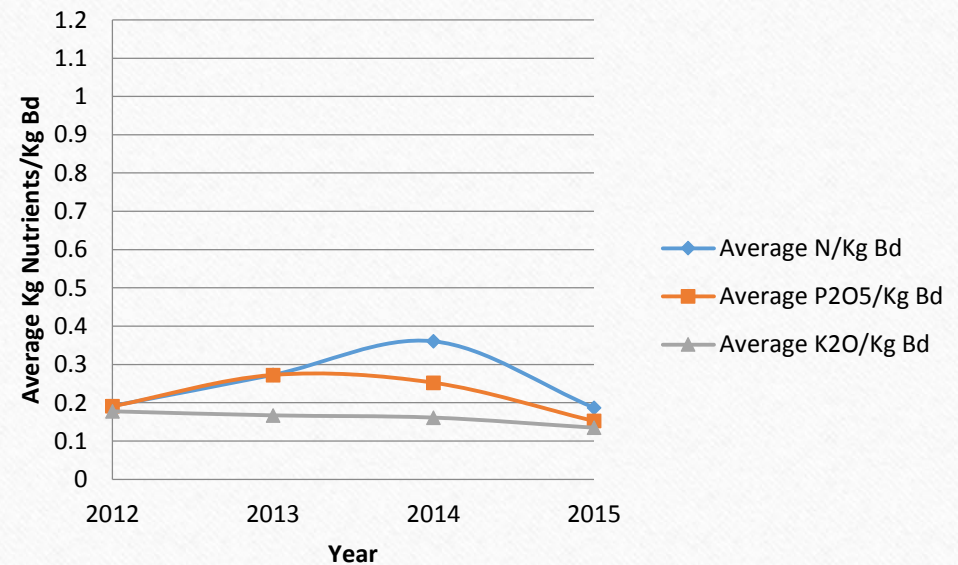
Pit

Status of Work: Initial Draft Data

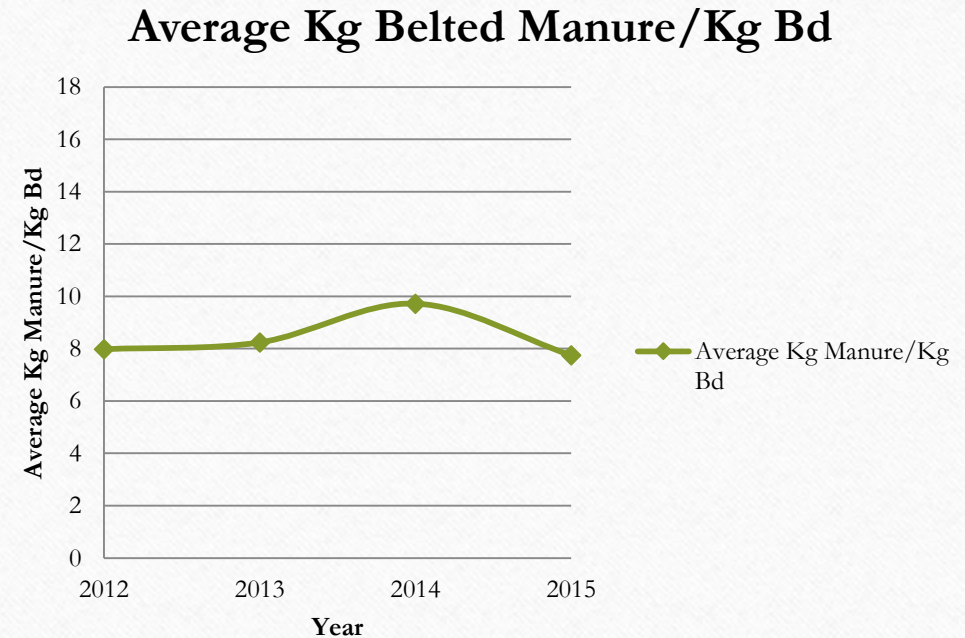
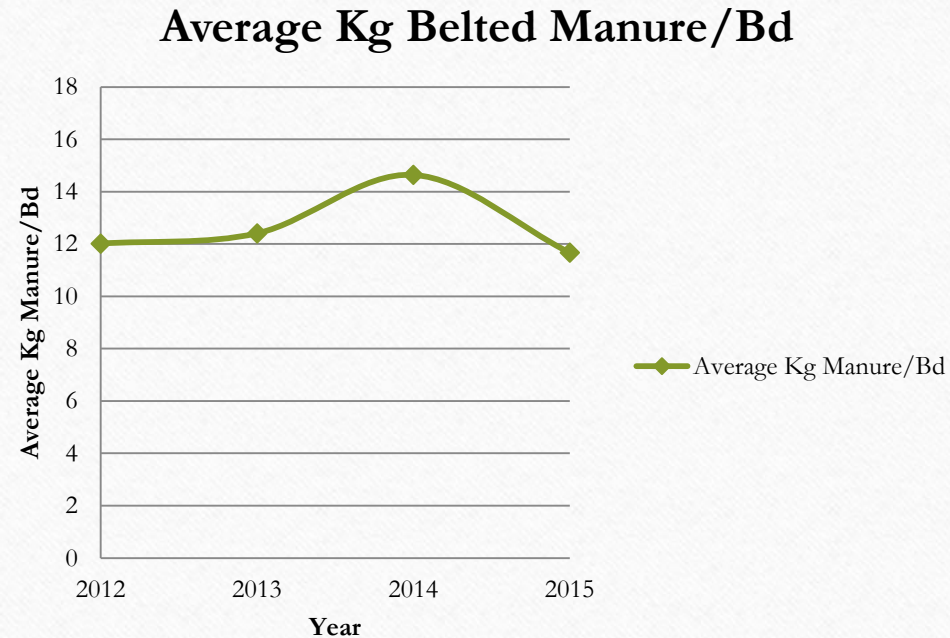
Average Kg of Belted Nutrients/Bd



Average Kg of Belted Nutrients/Kg Bd

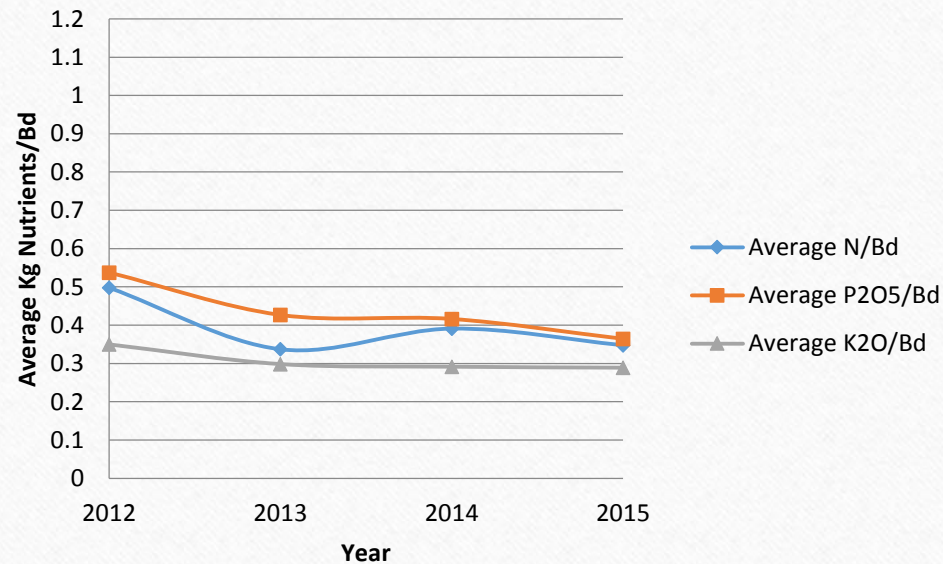


Status of Work: Initial Draft Data

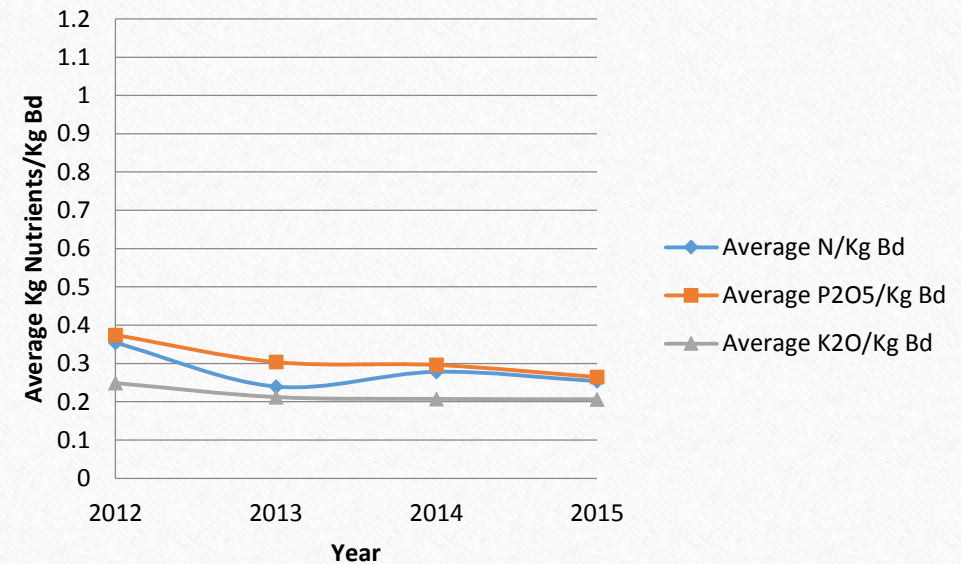


Status of Work: Initial Draft Data

Average Kg of Pit Nutrients/Bd

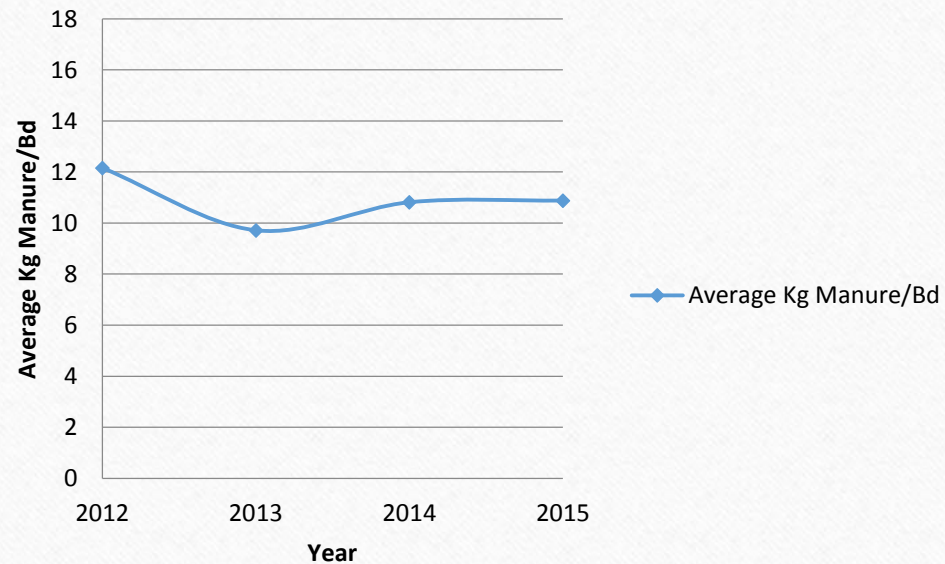


Average Kg of Pit Nutrients/Kg Bd

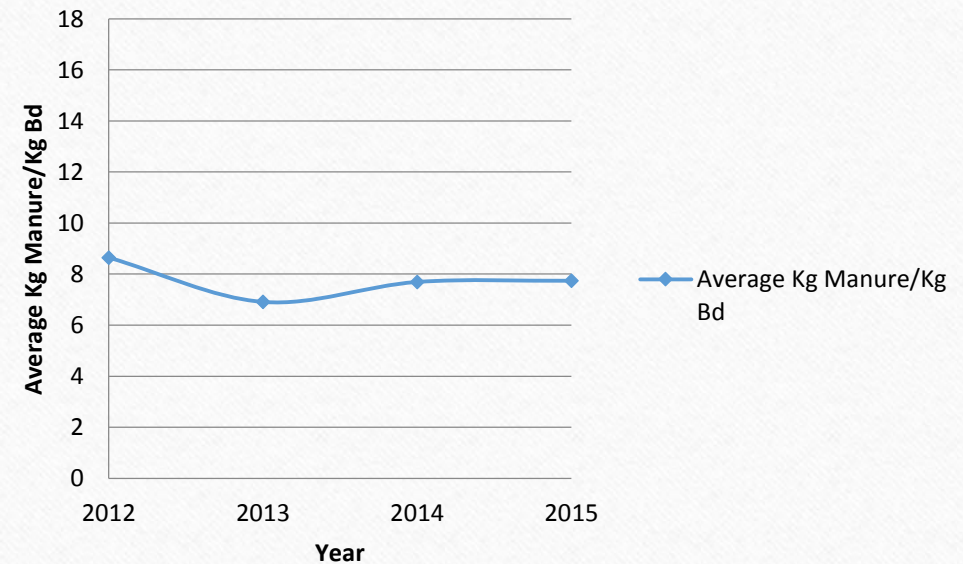


Status of Work: Initial Draft Data

Average Kg Pit Manure/Bd



Average Kg Pit Manure/Kg Bd



Status of Work

- All Information Sent to Penn State Univ. PI for Analysis, grouping, statistics reporting etc.
- The Layer Analysis report will be provided to the AgWG for review as soon as feasible.