Global experiences
with utilizing manure nutrient contents
Mikhail Durkin

“Can’t honestly say I’ve produced many eggs in my time, but I’ve contributed my share of some excellent fertilizer.”

Coalition Clean Baltic
As old as the world 😀

Barley and wheat from farming sites up to 8000 years old have levels of heavy nitrogen consistent with being fertilized by manure.

http://news.sciencemag.org/2013/07/researchers-discover-first-use-fertilizer
Excreted: ca. 70% of dietary N and >65% of dietary P

Nitrogen retention as fraction of the uptake (100%)
(source: GLEAM)

http://www.manurekiosk.org/
http://livestock.geo-wiki.org/Application/index.php

Cattle (2006)

Pigs (2006)

Chicken (2006)
Asia

• Manure management policies in some countries

• Lack of enforcement

• Variety of farms’ types, a lot of small-scale

• Good practices and examples available in some countries, e.g. Thailand, Malaysia, Vietnam
Africa

• Manure management policies in place in many countries
• Still widely used as a fuel and even in some cases cattle is used just to produce manure for fuel
• Lack of information on nutrient value to be utilised
• Good examples and research in South Africa and Kenya
Central and Latin America

• Manure policies in place in several states
• Lacking infrastructure for handling
• Management practices vary a lot (economy, traditions)
• Integrated Manure Management in school curricula!
• Fertilising coffee! 😊
USA (& Canada)

• A lot of research available
• Varies from state to state
• Toolkits and guidelines (EPA), nationally and state-wise
• Quite comparable to EU, both with regards to standard values and application
Same sh**t everywhere

**Nutrient content**
- Climate
- Traditions
- Fodder
- Type/categories of animals

**Application**
- Climate/season
- Traditions
- Moisture
- Type of soil
- Type of manure

You can’t spread manure in a wetland, it will pollute it!
It can’t, the water’s frozen!
Thank you for your attention!

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