# Manure spreading narrative

* Currently [6 June 2020] the output data only refers to the static manure spreading rates from 2009, even though the narrative is sort of defined.

# Totals by animal and crop category

- It is important to implement properly a routine that automatically calculates these totals (i.e., per animal category, manure type and crop class)

# Fertilization

- Biosolid and manure surplus are currently not re-distributed within the same municipality to crops where nutrient demand is unfulfilled.

- Biosolid Method II (and thus inorganic fertiliser) is not implemented due to the way Manure Method II is structured leading to negative crop application rates.

- Ammonia emissions from biosolids and manure spreading must be calculated with precaution due to biosolid and manure surplus.

# NH3 emissions from inorganic fertilisers

- There are at least two possible approaches to calculate tier 2 Nh3 emissions from fertilisers:

- Approach I: Calculate average spatially explicit NH3\_EFs according to soil pH and climatic region and apply these to crop fertiliser N

- Approach II: Would require spatialized crop areas

🡪 Currently [6 June 2020] only approach I is implemented.