

Nutrient data and flows: EU policy context

DONUTSS workshop on nutrient data monitoring to support decision making Gent, 4 September 2015

Francesco Presicce Unit for Agriculture, Forests and Soil European Commission, DG Environment

N cycle: examples of data needs





Application of livestock manure: examples

Excretion figures	 Animal category Housing systems, grazing time Production levels
Manure	 N losses during application cannot be
application	discounted

Concrete and detailed examples exist in case law; the Court of Justice always considers the most recent scientific evidence



Nitrates Directive action programmes

- Periods when fertilizer application is prohibited
- Capacity and construction of **storage** facilities for livestock manure
- Limitation of land application of fertilizer
- Limit of 170 Kg N/ha/year from livestock manure
- Land application on water-saturated, flooded, frozen or snowcovered ground
- Buffer strips near water courses
- Application of fertilizer on steeply sloping ground

- Procedures for land apl defining and implementing all measures



Water legislation relevant to nutrients

Water Framework Directive (2000/60/EC)

- 'Framework Directive' bringing together EU water policies
- Aim: Achieve good status of EU waters by means of integrated RBM
- Instrument: RBMP and Programme of Measures → integrated approach based on identified pressures

Urban Waste Water Treatment Directive (91/271/EEC)

- •Aim: Protect environment from the adverse effects of waste water discharges
- •Instrument: Establishment of proper collection systems for waste water; Ensure appropriate treatment of collected waste water; Ensure reinforced treatment in areas sensitive to eutrophication

Marine Strategy Framework Directive (2008/56/EC)

- Aim: Achieve Good Environmental Status (GES) for marine waters by 2020 by means of coherent approaches across sea basins
- •Instrument: Marine strategies and programmes of measures based on identified pressures

Nitrates Directive (91/676/EEC)

- •Aim: Reduce water pollution caused by nitrates from agricultural sources and prevent further such pollution
- •Instrument: Codes of Good Agricultural Practices, designation of vulnerable areas, Action Programmes





Implementation of policies \rightarrow Diversity of approaches \rightarrow need for scientific basis



Other relevant legislation

 Prevention and control of industrial emissions: Directive on industrial emissions 2010/75/EU (IED)/IPPC (pig and poultry) 	
 National emission ceilings in place for 2010 in the NEC Directive (2001/81/EC) (now under revision) Air Quality Directive (2008/50/EC) (PM) 	
 The Animal By-products Regulation (1069/2009/EU) supplemented with Regulation (142/2011/EU) Fertilizers regulation 	



The Phosphorus Cycle





"Consultative communication on the sustainable use of phosphorus"

- Published in 2013 (COM(2013)517) to launch an EU wide debate on the sustainability of the phosphorus cycle
- The consultation identified the closure of the cycle as an opportunity for the environment and economy
- > Among the key messages of the replies (SWD(2014)263):

"Need to improve knowledge base on worldwide supply and demand and phosphorus use efficiency"

- More knowledge base is needed, from different sources, on more geographical areas
- > The information needs to be more transparent and reliable
- Harmonizing definitions, adopt a common language



Conclusions

- Quantifying nutrient flows important for nutrient policy development and implementation
- A scientific basis is necessary for several policy areas: agriculture, food, environment, fertilizer market, etc. as regards both availability and efficient use of nutrients
- ➢ Figures do not remain theoretical, but have a direct influence on farm management → importance of a solid science basis



Thank you for your attention

<u>env-nitrates@ec.europa.eu</u> <u>env-use-of-phosphorus@ec.europa.eu</u>