

Poster presentation - part II

Series 3: Management -
Agricultural Management Systems

Series 4: The Wagna Research Station

Series 5: Groups and Organisations



Series 3: Management

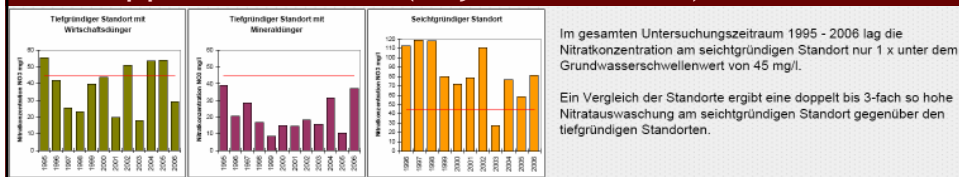
- 8 posters from Germany, Italy, the Czech Republic, Croatia and Austria
- Main topics:
 - comparison of cultivation systems and their effect on seepage water amounts as well as on nitrogen/nitrate and phosphorus leaching
 - conventional and organic farming (e.g. Austria/poster A5 for humid regions)
 - organic farming: for protection of drinking water (A6)
 - the other posters ...



S3

Land use and cultivation systems

- North-eastern Germany/A1 (36 measuring sites):
groundwater recharge under agricultural used land is much higher than in forest areas; irrigation highly influences crop development and yield whereas nutrient leaching is minimised
- Upper Austria/A2 (3 lysimeter sites):



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S3

Grassland and arable land

- Czech Republic/A3 (seepage water samplers):
in non-fertilised grassland, the impact of various rates of mulching and green fallow land on seepage of precipitation and amount of elements in soil water in 0.4 m depth (2001-2005) was investigated
- Eastern Croatia/A4 (phosphorus leaching):
lysimeter investigations (zero tension): traditional agricultural production leads to a potential danger of strong groundwater pollution of nitrogen and a slight pollution of phosphorus



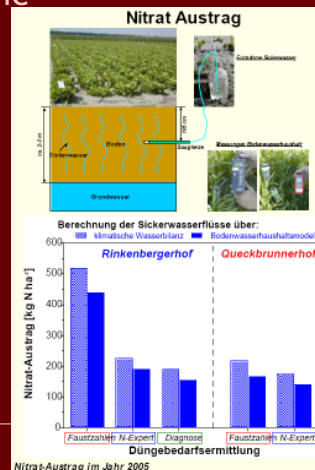
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S3

Herbicides and EU WFD

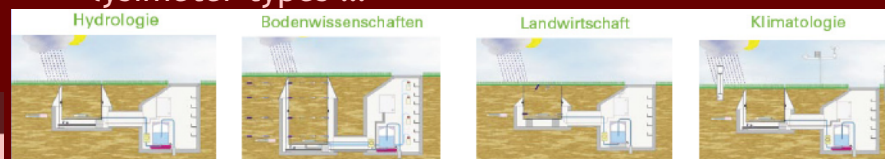
- Lombardia/A7 (monitoring of herbicides/maize):
to evaluate vulnerability, it is necessary to take soil characteristics and agronomic practice (irrigation type) into account; PELMO
- Speyer/Germany/A8:
integrated nitrogen management to reduce groundwater pollution according to the EU Water Framework Directive



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Series 4: The Wagna Research Station

- 11 posters give an overview of
 - the research area and the measuring devices
 - the data basis and management for modelling
 - comparison of precipitation amounts measured with various devices
 - yield and nutrient uptake at the lysimeters
 - measured water and nutrient freights
 - lysimeter types ...



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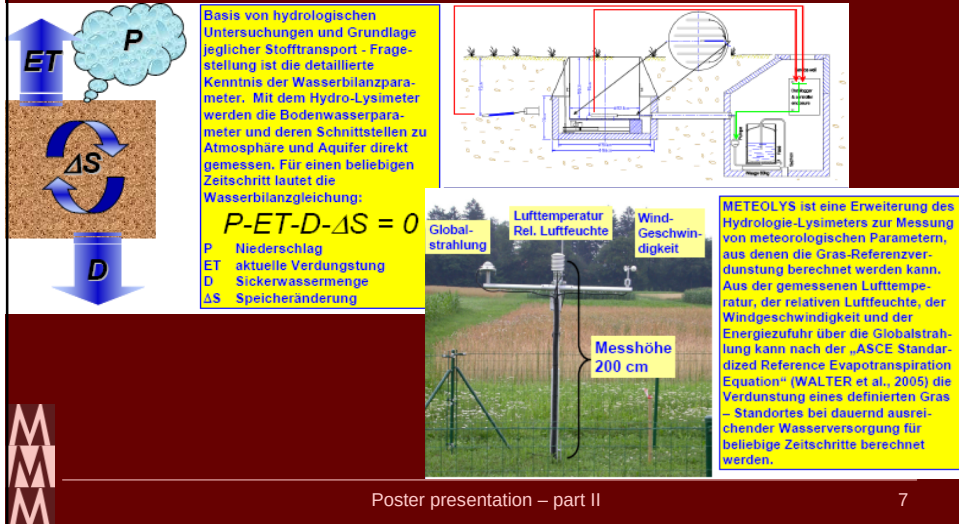
6

S4

Lysimeter Types in Wagna

- modular lysimeters like HYDROLYS and METEOLYS

...



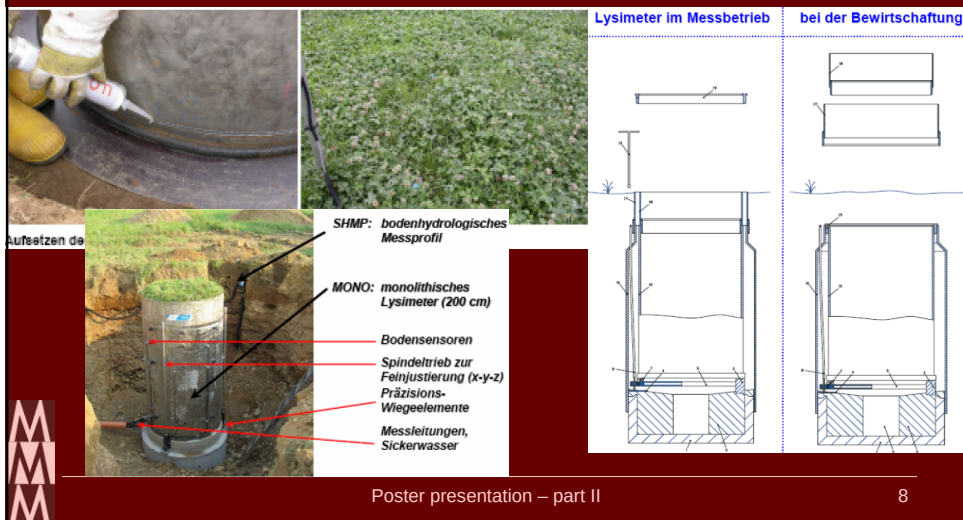
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S4

Lysimeter Types in Wagna

- ... AGROLYS and SOFILYS → (weighable) monolithic lysimeters, cultivated mechanically



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The screenshot shows the Lysimeter website with a navigation bar on the right containing links: "in English", "About us", "News & events", "Publications", "Research stations in Europe", "Photos", and "Links". The main content area lists several conferences:

- 1st Lysimeter Conference 2007** in Raumberg-Gumpenstein zum 10. Jahrestag der Gründung der Lysimeter Konferenz 2007 in Raumberg-Gumpenstein, see HERE: 25/01/2007
- 2nd Lysimeter Conference 2007** in Bonn, Germany (19-20 October 2007) (see English Report)
- 3rd Lysimeter Conference 2007** in the steps of national and international programmes
- 4th Lysimeter Conference 2007** in Graz
- 5th Lysimeter Conference 2007** in Graz

Below the list, there is a link: <http://www.lysimeter.com/conference2007.htm> and a button: [Download Tagungsband/Proceedings!](#)

At the bottom, the logo of the **Arbeitsgruppe Lysimeter / Lysimeter Research Group 2006 - 2009** is displayed.

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AT Austria

Legend:

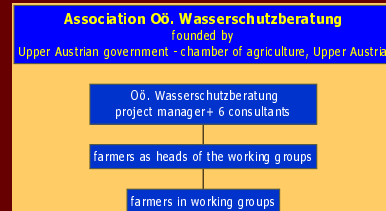
- ▲ Lysimeter facility
- Lysimeter station
- Lysimeter station, inactivated
- Seepage water sampling site/SWIS
- SWIS, inactivated
- Soil hydrology measuring site/SHMS
- SHMS, inactivated

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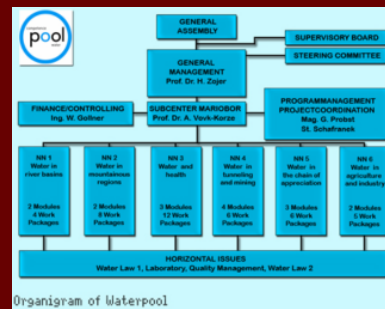
S5

Organisations: water protection

- Agricultural Groundwater Protection in Upper Austria/G6



- Waterpool - Competence Network Water Resources/G7



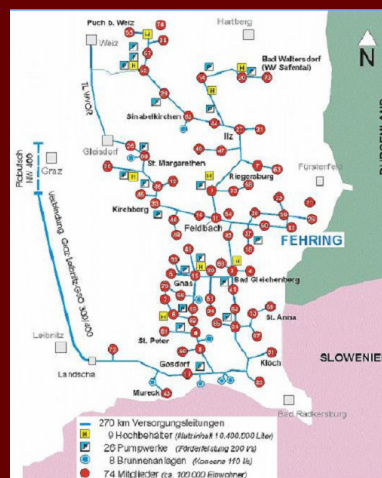
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S5

Water supply in south-eastern Styria

- GSO (G8)
The water supplier “Grenzland Südost” (GSO) was founded in 1979 to ensure water supply in southern and eastern Styria for the future. 74 communities and associations with around 100 000 inhabitants are supported via a pipe network of 270 km.



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Poster session is open from now on

Thank you for your
attention ...



... and have a nice
evening!

