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2007–2013

Energy Positive Farm - ENPOS

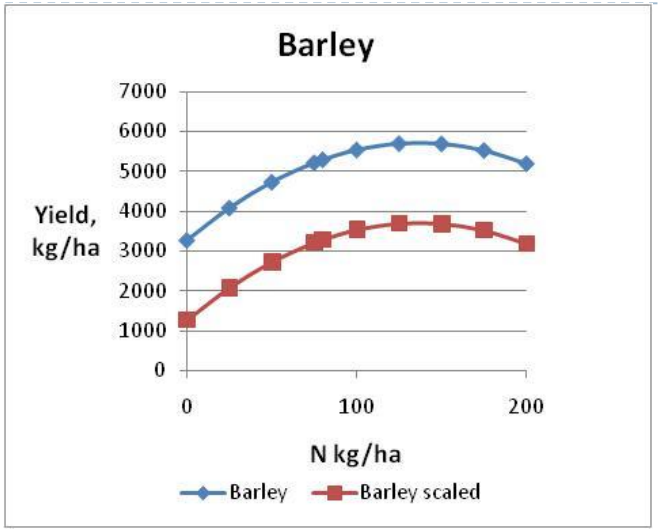
Nitrogen response of Finnish crops

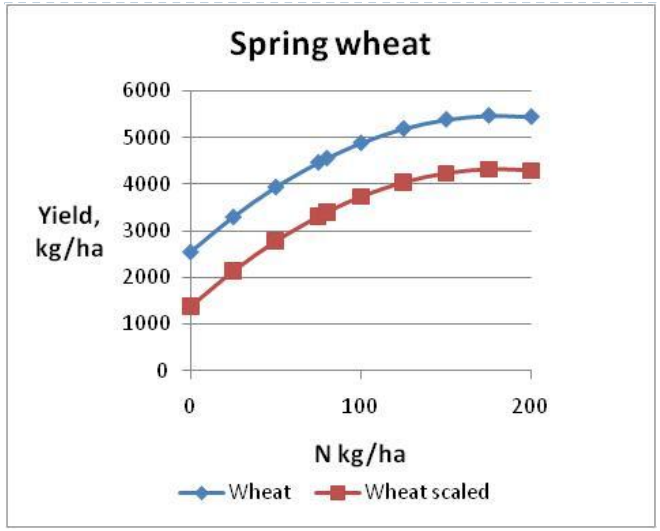
ENPOS Seminar - Energy use in plant production – Otepää 20 – 22 January 2010

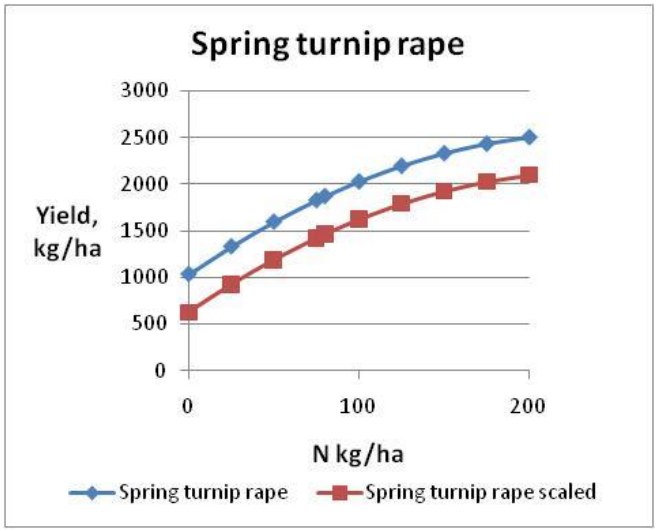
Use of nitrogen response functions in energy analysis for field crops

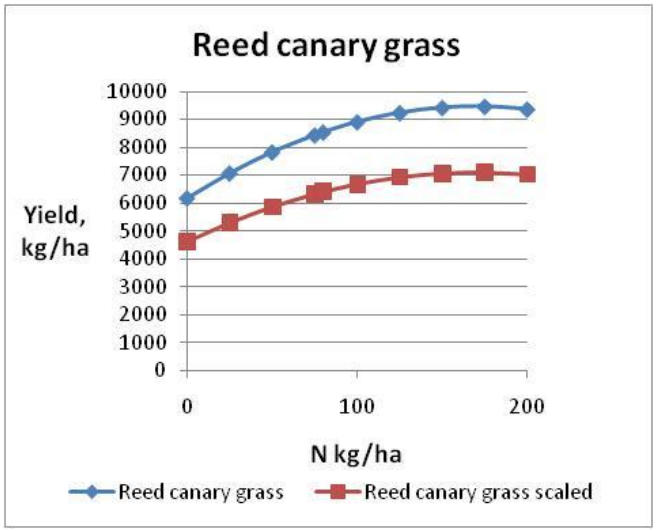
- Nitrogen response functions come from field experiments
- Yield level is considerably higher in field experiments than the average yields in the country
- For reed canary grass harvesting losses are outstanding, 25% in minimum
- This is why functions were scaled to match with the real world

Nitrogen response functions for some Finnish crops before and after scaling

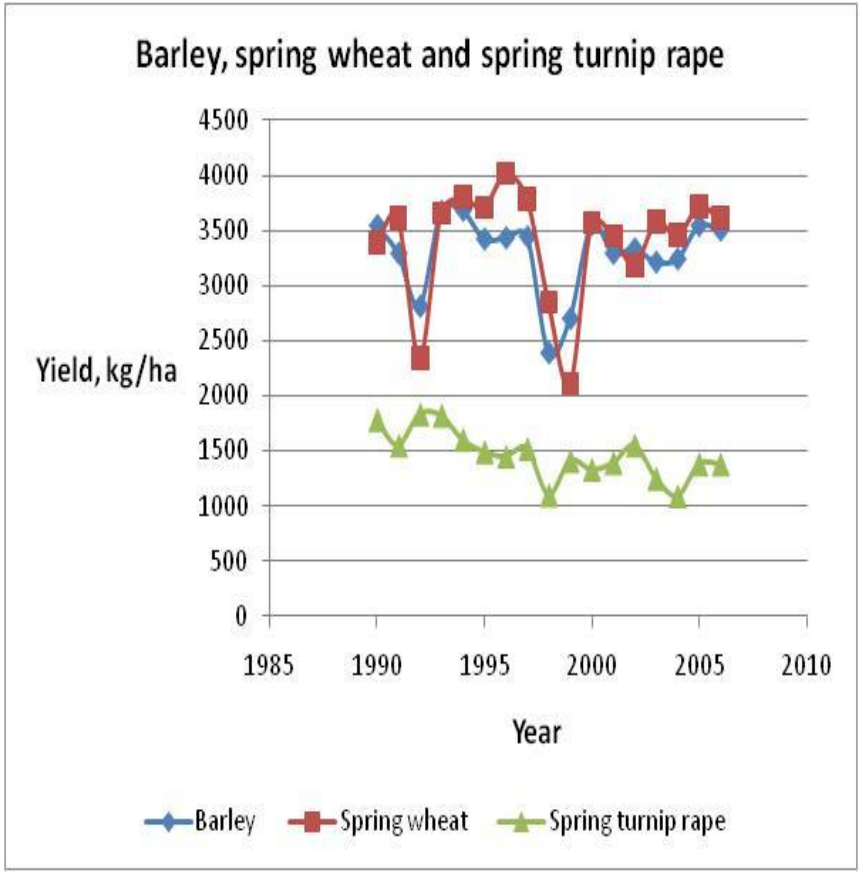


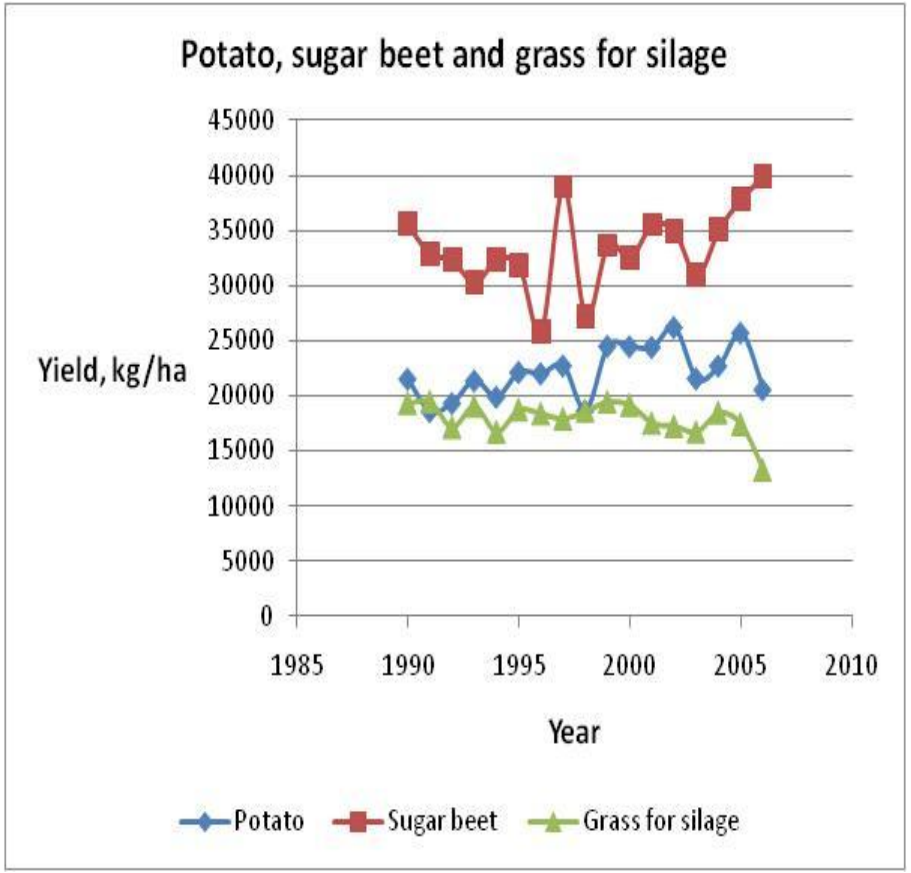






Development of average yields in Finland 1990 - 2005





This material has been produced in ENPOS project. ENPOS is acronym for ***Energy Positive Farm***.

The project partners are
• University of Helsinki, department of Agricultural Sciences – Agrotechnology
• MTT Agrifood Research Finland - Agricultural Engineering
• Estonian University of Life Sciences

Project home page is at http://enpos.weebly.com/

The project is financed by the EU Central Baltic IV A Programme 2007-2013

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