



HELSINGIN YLIOPISTO



EUROPEAN UNION  
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# Energy Positive Farm - ENPOS

## Nitrogen response of Finnish crops

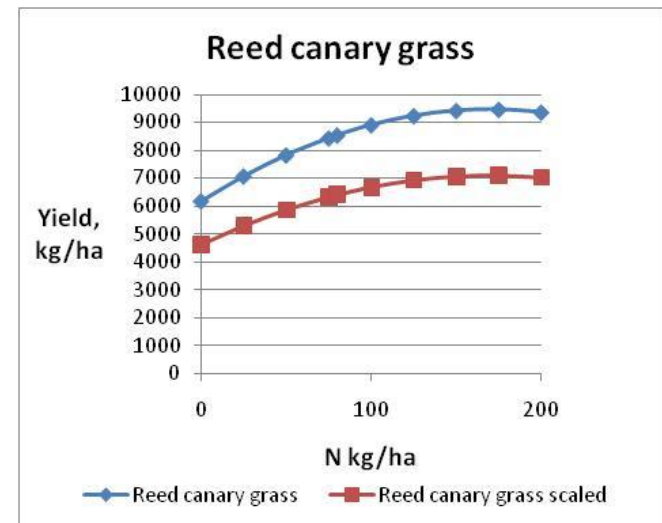
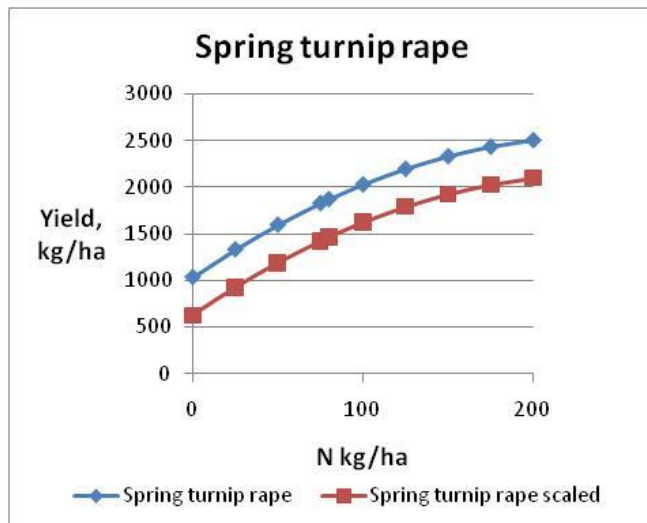
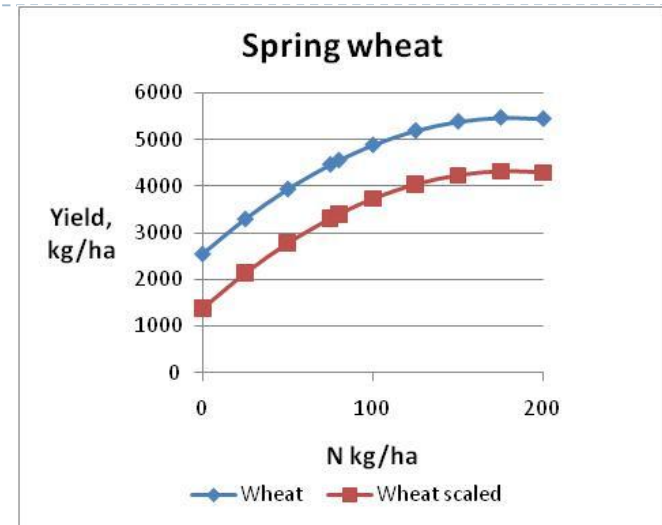
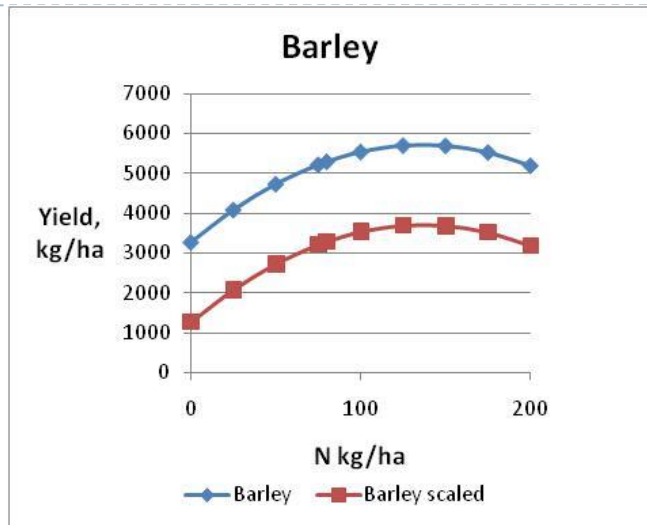
ENPOS Seminar - Energy use in plant production – Otepää 20 – 22 January 2010

# Use of nitrogen response functions in energy analysis for field crops

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- ▶ 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

