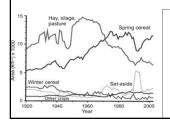
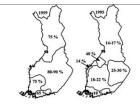
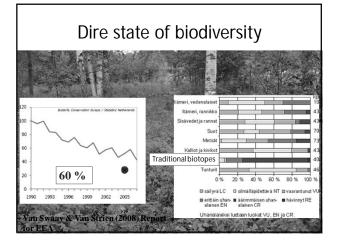


Why pasturing is relevant for the society?

- Extensive grazing a key management tool to support biodiversity in Europe
- Grazing has been in decline







Can the equine sector help the society?



... and itself?

- 1) In some regions, more horses than cows or sheep
- 2) Paddock is NOT a pasture
- 3) Intensively cultivated pasture = "green desert"



Objectives

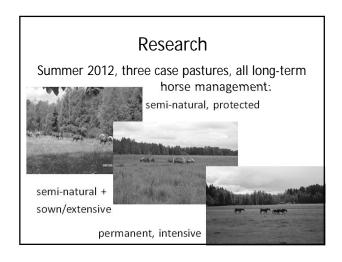
- o Estimating the feeding value and nutrient intake of horses, and
- Estimating impact of horses on vegetation and ground (trampling)
- on semi-natural and permanent pastures
- -> Optimizing the grazing pressure and pasture management

Other output

o Improved knowledge on pasturing of horses -> Best Practices Webtool, Innoguidebook, Pasturing Guide (in Finnish) Hevonen hoitaa luontoa luonto hoitaa hevosta Opas hevosalalle Hankehakemus 2012



Improved support for pasturing -> Policy recommendations



Research

Data:

- Nutritional status, body weight
- · Health data (e.g. insect bites, injuries)
- · Forage quality
- · Survey of vegetation and ground
- Interviews with 50 horse owners and pasture owners





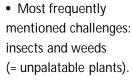




RESULTS: Interviews

- Benefits to horses top reason: gradual foraging and moving, more and varied exercise, healthy digestive system, less behavior problems, socializing in a herd,
- Also to the owners (ease on the owner's workload), and ...
- To the environment: landscape, use of resources

31.08.2013 Y





 Desired information: establishing and managing pastures, suitable types, sown and native species, benefits from pastures (esp. to urban people).

Everyone with access to pastures was satisfied

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RESULTS: Welfare and health

- Mainly increased weight
- · Only small scratches
- Few insect bites



Portable stock

RESULTS: Biodiversity | Semi- Perma| natural | nent | Re-sown | | Species Richness, | sample squares | 116 | 48 | 40 | | Species Richness, | all pasture | 135 | 106 | 96 | | Permanent | Re-sown | Semi-natural | | On semi-natural pasture - the highest biological | diversity | | On intensive pasture, still high diversity - WHY?

RESULTS: Selective grazing

All grasses and clovers – clear preference Also eaten: at least 15 more native species Some poisoning plants present but avoided



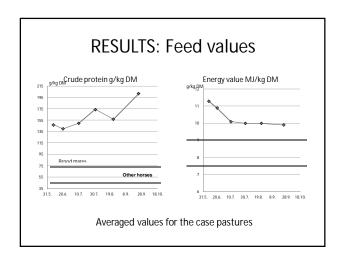
- -> pasture and vegetation become heterogeneous,
- -> some species survive better.
- 1) Meadow indicator species:

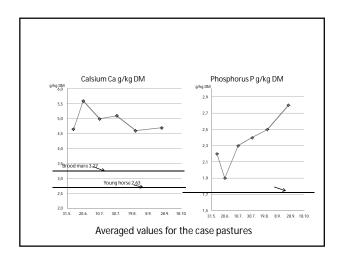
selected – 7 spp

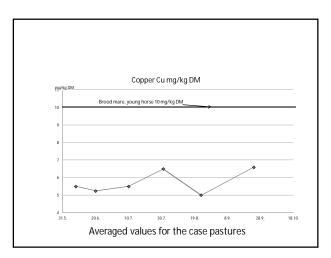
avoided - 25 spp

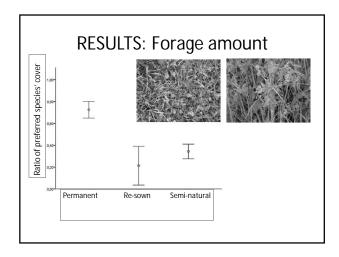
2) Usefulness for pollinators – equally good

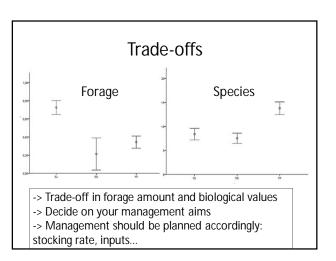
















Management has to be diversified: mechanic clearing or alternate grazing by sheep

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Re-sown/extensive, Särkisaari

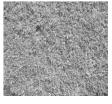




Partly unsuccessful conversion of permanent pasture into sown

Managing weeds – difficult on an island

Permanent/undersown/intensive Savijärvi







A trade-off (good fodder and nature values) - resolved through non-grazed/non-managed elements

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* Free forage of sufficient quality * Manure management strategy * Public goods: landscape, biodiversity



THANK YOU!

Desclaimer: The managing authority is not responsible for the content presented by the project.



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