

Integration of bioenergy crops into agriculture landscapes to improve conditions for water

Göran Berndes, on behalf of:

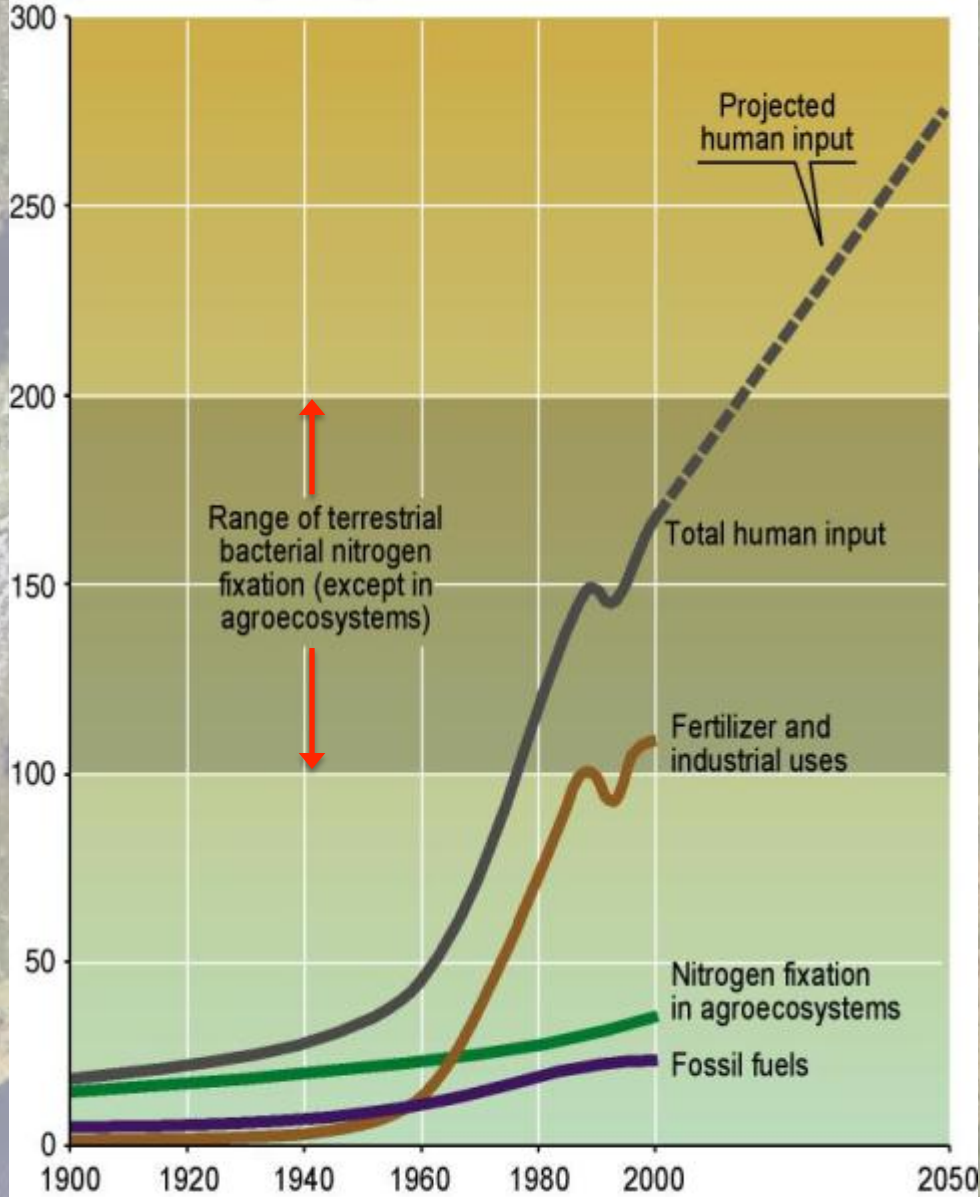
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Cyanobacterial blooms in the Baltic Sea
MODIS AQUA 2005-07-11, data from NASA

processed by SMHI

Teragrams of nitrogen per year



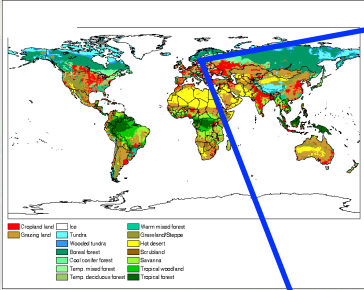
Source: Millennium Ecosystem Assessment

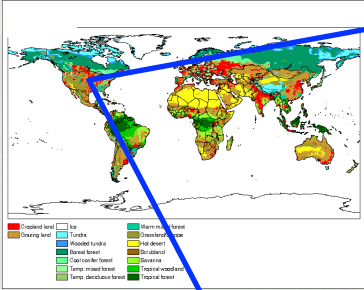
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Room for bioenergy plantations?

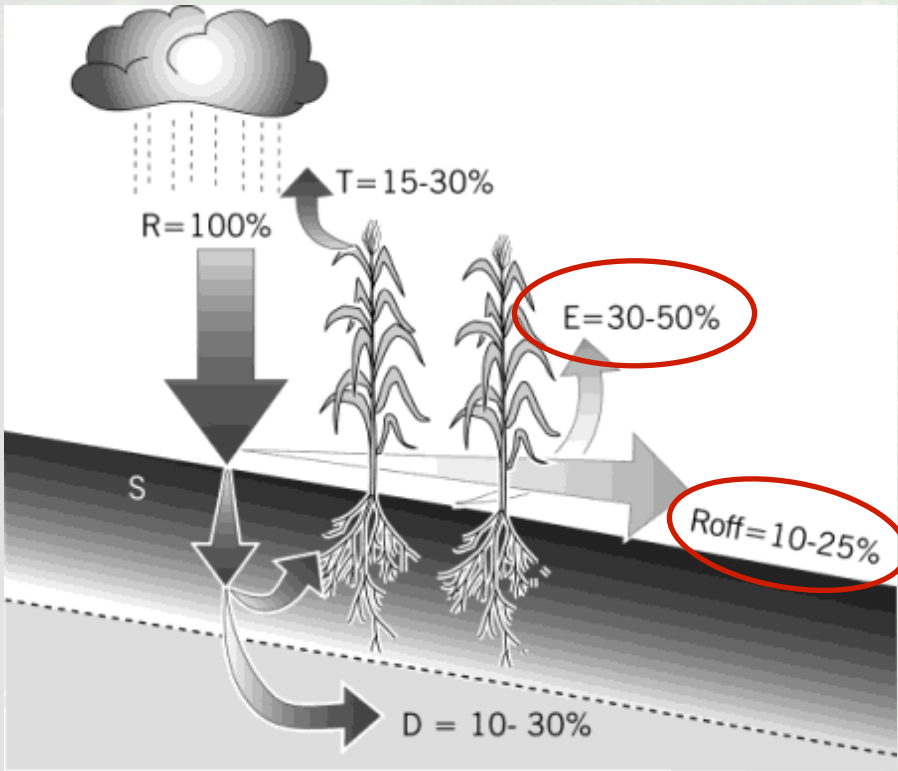






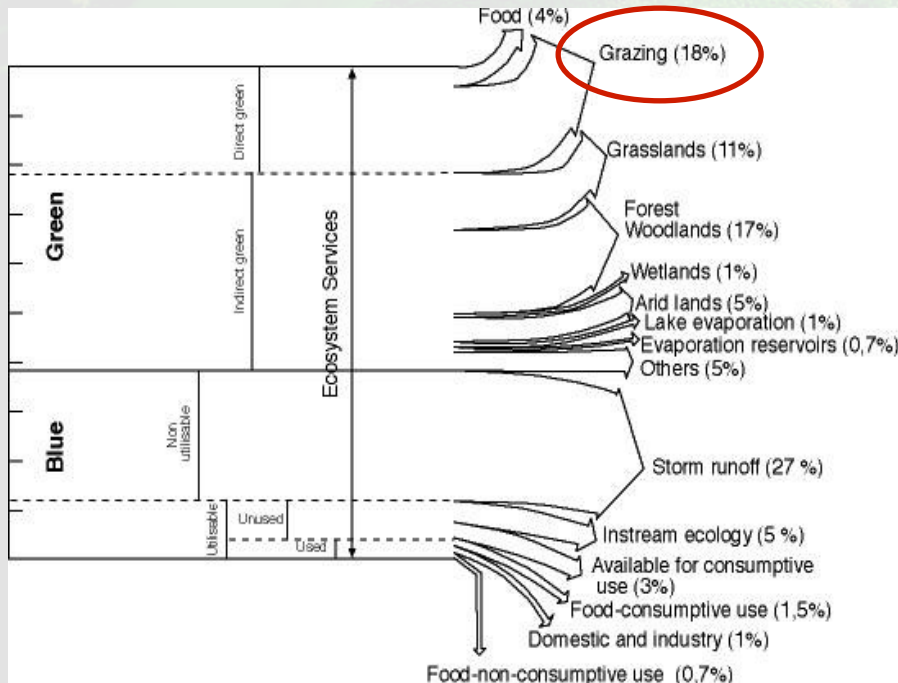
Role of bioenergy in strategies to...

- Reduce water impacts of agriculture activities
- Improve water productivity in agriculture



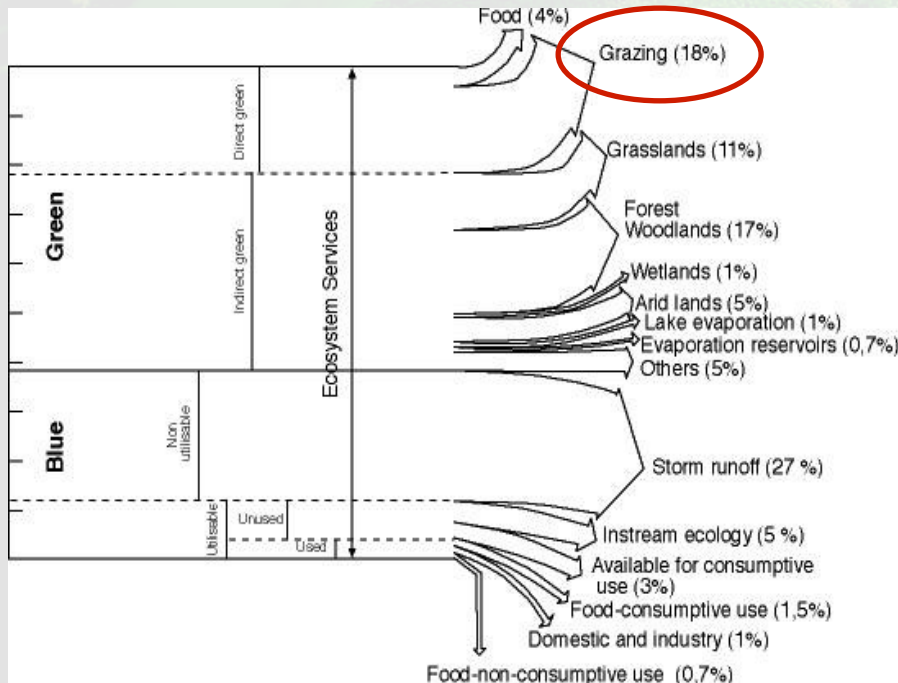
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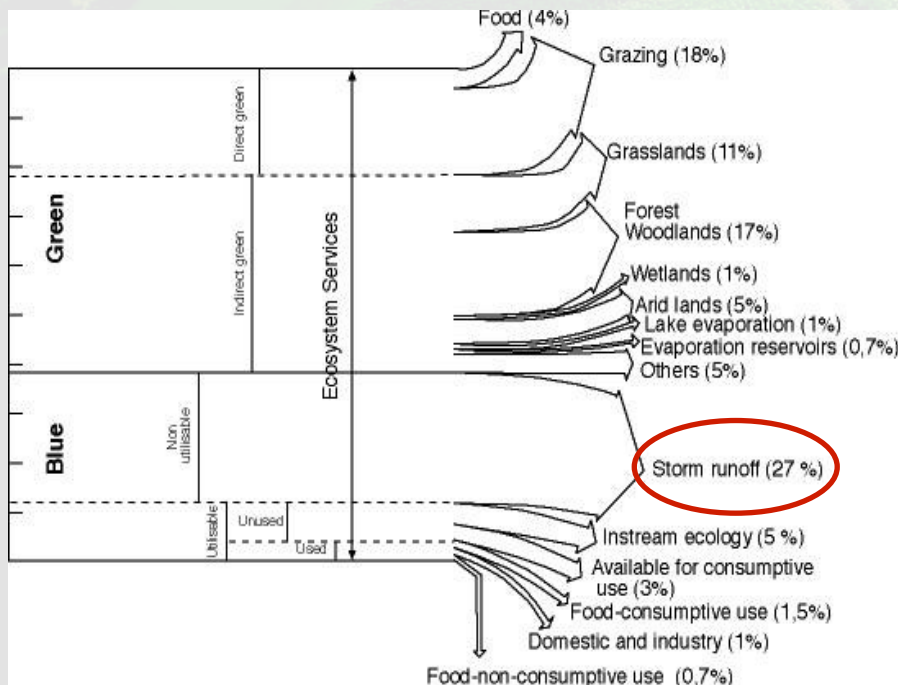
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Role of bioenergy in strategies to...

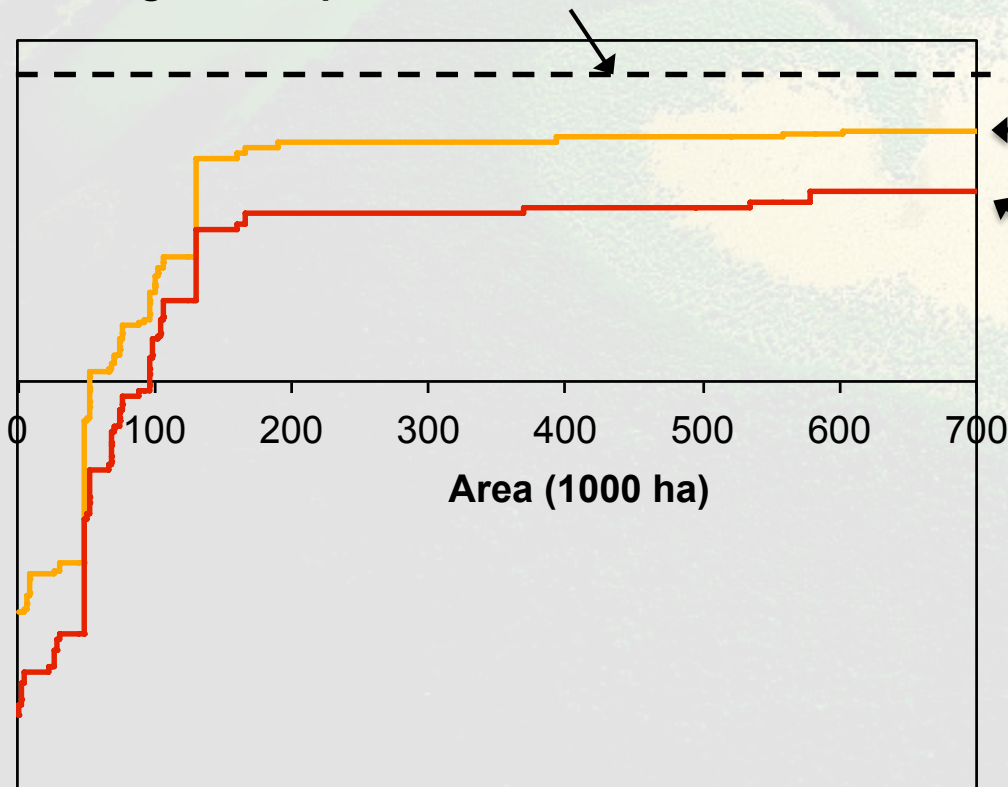
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Role of bioenergy in strategies to...

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Average willow production cost for Sweden



Net production cost when considering value of additional services

C price 20€/tC.
Conversion to cereals after 25 years.

C price 100€/tC.
Re-establishment of plantation after 25 years

A satellite image of the Baltic Sea region, showing a large, swirling cyanobacterial bloom in shades of green and blue. The surrounding landmasses are visible in various shades of green and brown. The text "THANK YOU!" is overlaid in large white letters across the top center of the image.

THANK YOU!

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