

Presentation of LUC in Milano 13-16
April 2010 Cost639 Modeling
Workshop

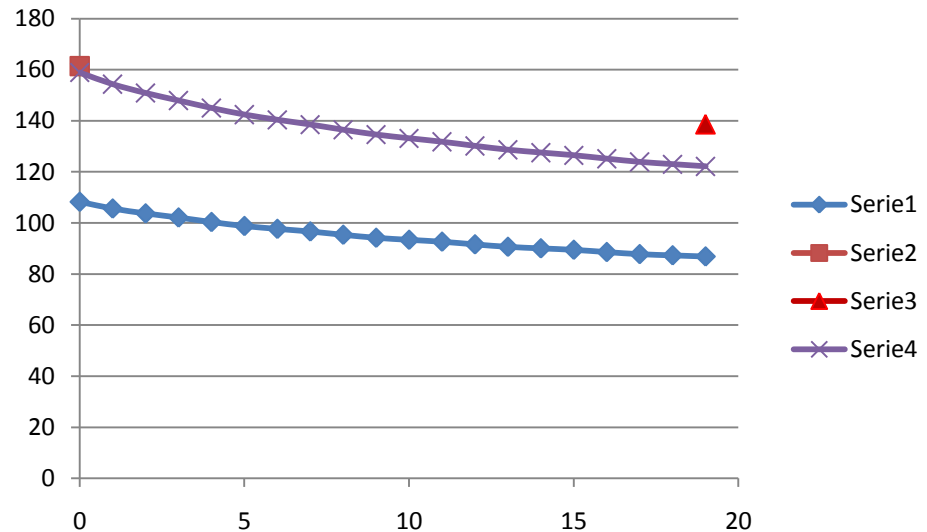
Carina Ortiz

Somero

- Most Spruce
 - Did not do the deciduous 3%. Normally in Q not treated, but there are assumptions to make if you like....
- Steady state carbon input – old carbon
 - Most critical
 - 40 year old – max prod. How to estimate average for whole rotation period?
 - Functions of needle biomass related to latitude → Needle litter (Hyvönen et al. 2002, Plant and Soil). Based on productivity of the soil.
 - Relations between needle biomass and total litter production → Total litter (Saarsalmi et al. 2007, For. Ecol. Manag.)
 - Annual litter input of 2008 → fraction of different qualities → fractions of litter input from the average rotation period
 - Now we can make the steady state assumption! → Carbon steady state input.
- Forest biomass 2008
- Agricultural biomass 1990-2008

Somero

- 1 is with a medium fertile soil, mostly blueberries, small bushes
- 2 is a more fertile soil
- → it is very important what assumptions you make when setting your initialization



Somero

- Rate of change during simulation period
- 1= medium fertile
- 2= obs
- 3=fertile soil
- Does not only affect the SOC stock but also the rate of change
- → SA analysis of initialization/Input would be of help. Is this something we can include???

