State and Transition Ecosystem Models – Application to Soil Survey and Dynamic Soil Properties Databases

State and transition models.

sensu

state and transition models (STMs)

states

transitions

Thresholds

La Copita case study.

Prosopis glandulosa

Chloris cucullata

Table 1. Soil properties, 0 – 10 cm (Hibbard et al. 2001).

Notes:

Importance of dynamic soil properties.

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Uses of dynamic soil property data.

Database framework.

Database population strategies.

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Summary.

References.

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Figure 1. State and transition model for sandy loam uplands of the La Copita study. (modified from Archer 1989)

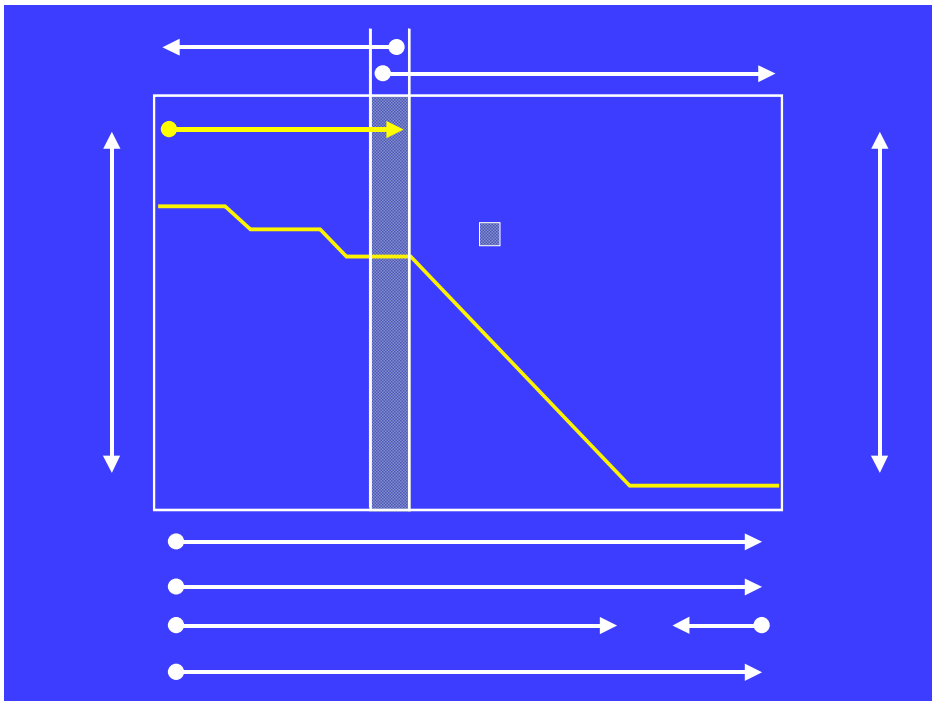

Figure 2. State and transition model for Sandy loam 83c in standard format for ecological site descriptions. See Stringham et al. (2001) for definitions and examples.

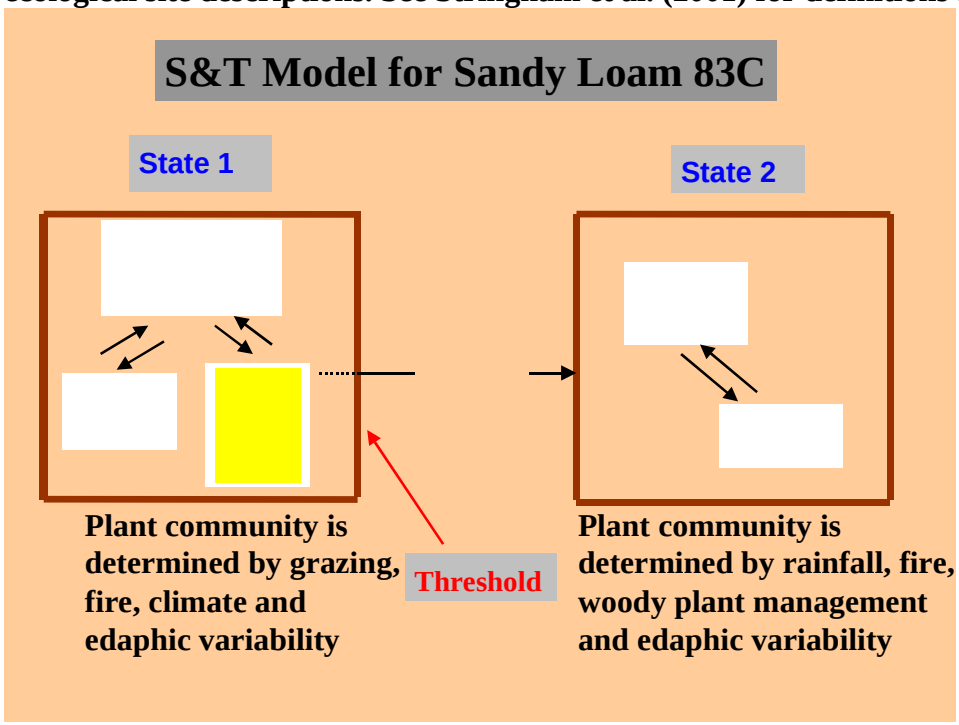

Figure 3. Simulated soil organic carbon, 1750 to 2000. (Hibbard 1995; redrawn from Archer et al. 2001)

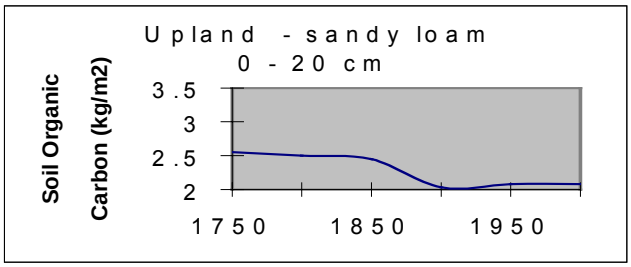
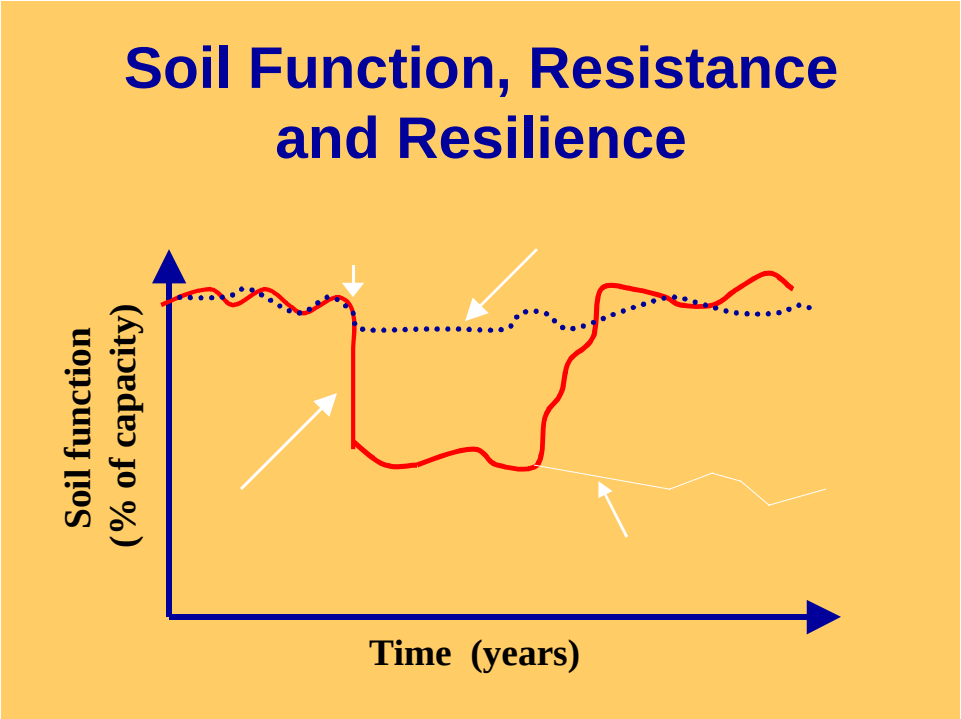
Figure 4. Soil resistance and resilience in relation to the capacity of the soil to function. (Seybold et al. 1999)