Variables: water W, plant biomass N

Let

Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Symbols | Interpretation | Value for grass | Value for tree |
|  | Water input |  |  |
|  | Rate at which water flows downhill |  | |
|  | Plant losses |  |  |

Steady state:

When

When

Initial condition:

Random plant peaks in 10% of the grid elements: