**Table S2** **Spatial (S) and temporal (T) scales of disturbance used to create state-space diagrams illustrating potential disturbance dynamics.** We executed deterministic and stochastic versions of the model covering the full range of these S and T values. Landscape size is constant at 10,000 units and recovery time is constant at 8.

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| ***Spatial scale of disturbance events*** |
| Disturbance extent(number of cells) | $$\frac{Disturbance extent}{Landscape extent}$$ |
|  | (% of landscape) |
| 10 x 10 | 1 |
| 50 x 50 | 25 |
| 71 x 71 | 50 |
| 86 x 86 | 74 |
| 100 x 100 | 100 |
| ***Temporal scale of disturbance events*** |
| Disturbance return interval(time steps) | Disturbance frequency(per time step during simulation) | $$\frac{\begin{array}{c}Disturbance return\\interval\end{array}}{\begin{array}{c}Ecosystem recovery\\time\end{array}}$$ |
| 80 | 0.0125 | 10 |
| 40 | 0.025 | 5 |
| 8 | 0.125 | 1 |
| 4 | 0.25 | 0.5 |
| 0.8 | 1.25 | 0.1 |
| 0.4 | 2.5 | 0.05 |
| 0.08 | 12.5 | 0.01 |