

| Parameter | Reference value and dimension |
|---|-------------------------------|
| Seed dispersal function | |
| Maximal flight distance for <i>L. gmelinii</i> seeds at 10 km h ⁻¹ ($r_{\text{Maximum Seeds}}$, Matlack, 1987) | 60.1 m |
| Species-specific fall speed of propagules (V_d) | 0.86 m s ⁻¹ |
| Distance ratio weighing factor (sdist) | 0.16 |
| Factor of seed productivity (f_S) | 8 |
| Background germination rate ($f_{\text{Background Germination}}$) | 0.01 |
| Influence factor of weather on germination rate ($f_{\text{Weather Germination}}$) | 0.447975 |
| Maximum age of seeds ($\text{age}_{\text{Maximum Seeds}}$) | 2 years |
| Seed mortality rate on trees (in cones, $P_{\text{Seed Mortality, Cones}}$) and | 0.44724 |
| at the ground ($P_{\text{Seed Mortality, Ground}}$) | 0.55803 |
| Factor for release height estimation H_t (f_{H_t}) | 0.75 |
| Factor for the actual wind direction $\bar{\theta}$ ($f_{\bar{\theta}}$) | 1 |
| Factor for wind speeds V_w (f_{V_w}) | 1 |
| Probability of seed release from cones ($P_{\text{Seed Release}}$) | 0.63931 |
| Pollination | |
| Inverse of the von Mises distribution's variance (κ) | 10 |
| Gregory's parameter C | 0.6 cm ^{-(1-0.5m)} |
| Gregory's parameter m | 1.25 |
| Pollen descending velocity ($V_{d, \text{Pollen}}$) | 0.126 m s ⁻¹ |
| Factor for the actual wind direction ($\bar{\theta}$) | 1 |