

Online Material

Appendix 1. Bur oak percent seedling emergence and height

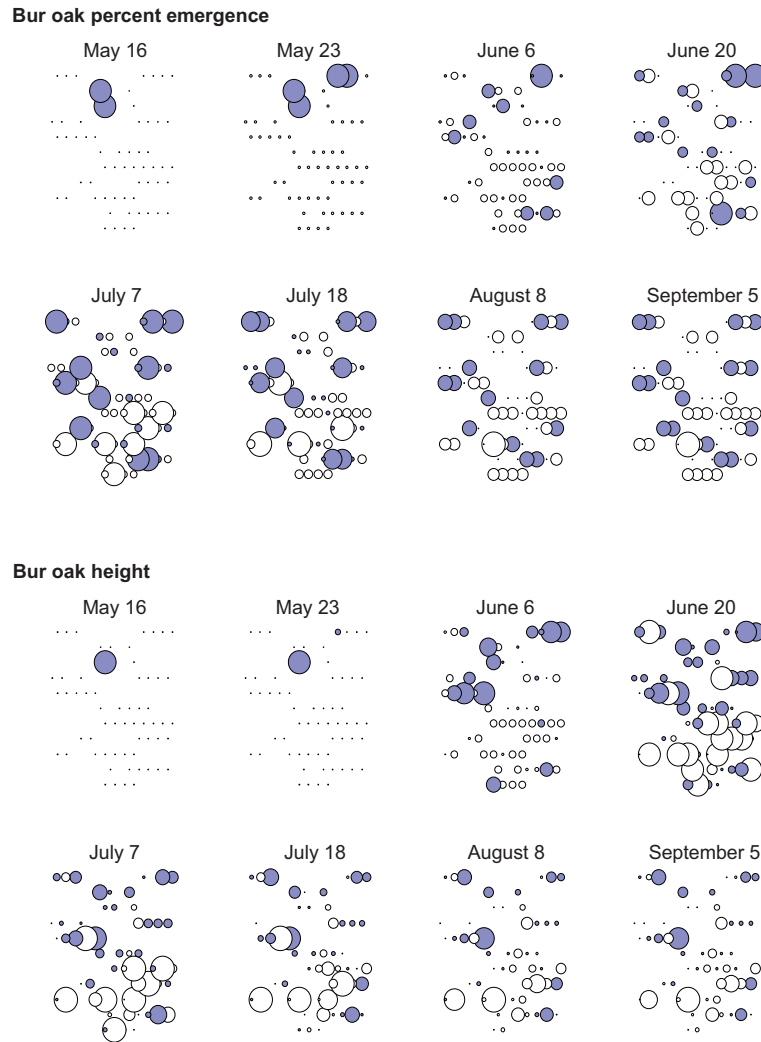


Figure 1. Notes: Each graph represents the entire study site, composed of eleven rows (horizontal lines) that are each spaced by 6 m. Within each row, each bubble represents a bur oak sowing spot. Neighbouring sowing spots (bubbles) are spaced by 3 m. Percent seedling emergence is calculated from all seedlings per sowing spot, whereas height is from the first-emerged seedling only. For each date, the data was centered on the mean of all sowing spots. Filled bubbles indicate positive values (greater than the mean), while empty bubbles indicate negative values (smaller than the mean). Bubble size represents the size of the value, either positive or negative.

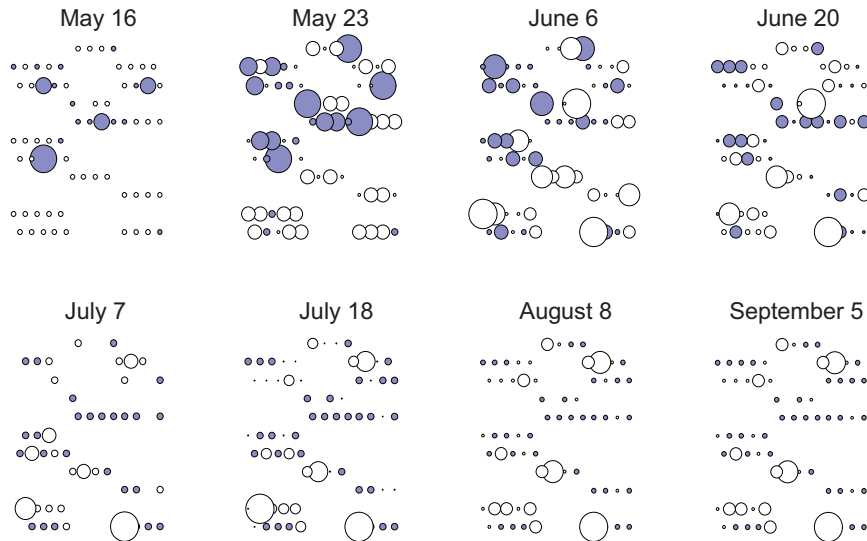
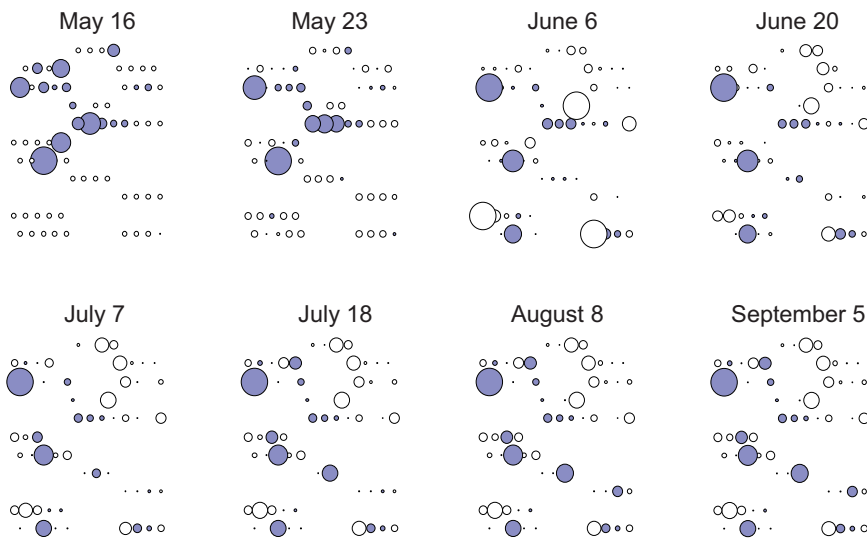
Appendix 2. Red oak percent seedling emergence and height**Red oak percent emergence****Red oak height**

Figure 2. Notes: Each graph represents the entire study site, composed of eleven rows (horizontal lines) that are each spaced by 6 m. Within each row, each bubble represents a red oak sowing spot. Neighbouring sowing spots (bubbles) are spaced by 3 m. Percent seedling emergence is calculated from all seedlings per sowing spot, whereas height is from the first-emerged seedling only. For each date, the data was centered on the mean of all sowing spots. Filled bubbles indicate positive values (larger than the mean), while empty bubbles indicate negative values (greater than the mean). Bubble size represents the size of the value, either positive or negative.

Appendix 3. Environmental variables measured

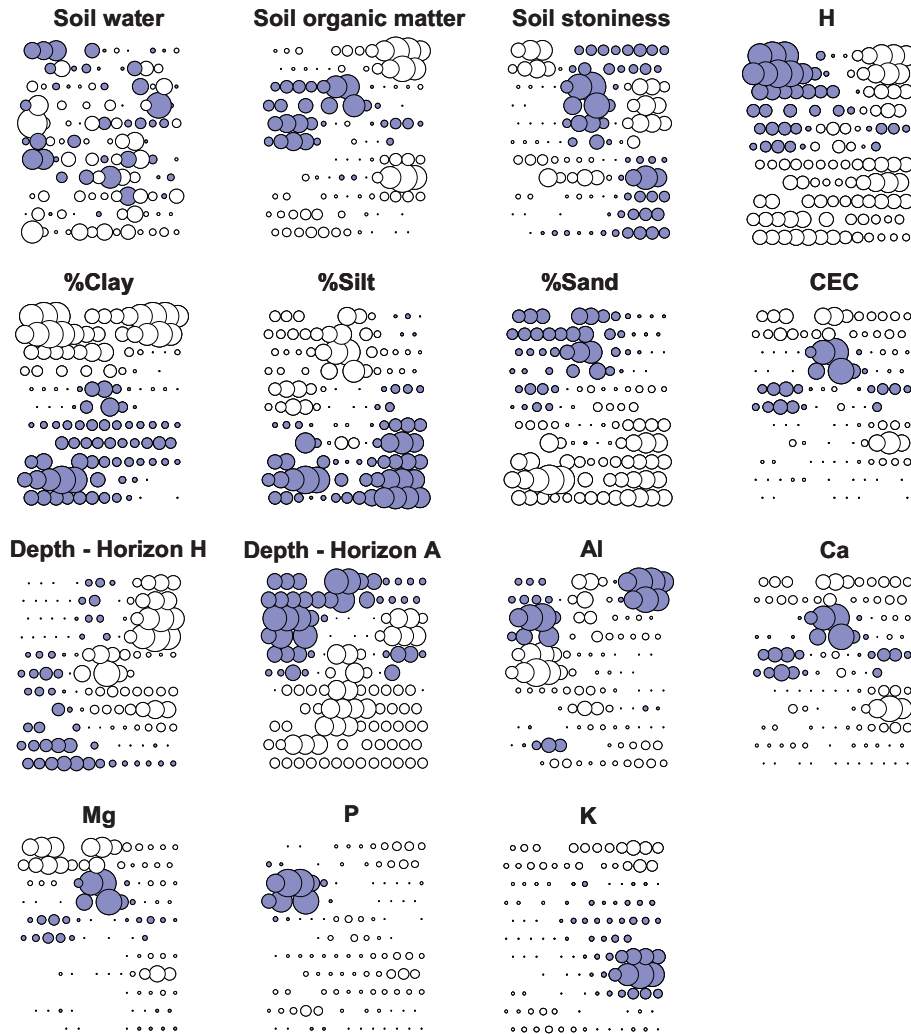


Figure 3. Notes: Each graph represents the entire study site, composed of eleven rows (horizontal lines) that are each spaced by 6 m. Within each row, each bubble represents a sowing spot (bur oak or red oak). Neighbouring sowing spots (bubbles) are spaced by 3 m. Soil water was measured from all sowing spots, whereas all other variables were interpolated from 15 soil samples that were spread across the study site. For each date, the data was centered on the mean of all sowing spots. Filled bubbles indicate positive values (larger than the mean), while empty bubbles indicate negative values (smaller than the mean). Bubble size represents the size of the value, either positive or negative.