**Data from:** Roles of plant soil feedback and airborne leaf diseases on replacement of tree seedlings in heterogeneous light environments in a temperate forest: a reciprocal seed sowing experiment

**Title**: Environmental conditions

**Description:** This file contains environmental conditions in the forest understory (FU) and gaps (Gap) beneath adults of *Cornus controversa* and *Prunus grayana*. The data contains five variables: canopy openness (%), soil water contents (%), Soil C contencentration (%) soil N concentration (%), soil P concentration and soil PH in seven replicated adults of *Cornus controversa* and *Prunus grayana* in forest understory (FU) and gap (Gap).

**Title**: Causes of seedling mortality

**Description:** This file contains the causes of seedling mortality (%) during the 2011 growing season in the forest understory (FU) and gap (Gap) beneath *Cornus controversa* and *Prunus grayana* adults in the reciprocal seed-sowing experiment. This data contains four variables: percent seedling mortality caused by leaf diseases, damping-offs, invertebrate herbivores and vertebrate herbivores in the forest understory (FU) and gap (Gap) beneath seven replicated adults of *C. controversa* and *P. grayana*.

**Title**: Seedling damages caused by zonnate leaf bright beneath adults of *Cornus controversa*

**Description:** This file contains the seedling damage caused by zonate leaf bright beneathadults of *Cornus controversa*. This data contains three variables: the proportion (%) of leaves damaged by zonate leaf blight, number of leaves attached to a seedling, proportion of seedlings showing cell wall defence against zonate leaf blight for the seedlings of *Prunus grayana* and *Cornus controversa* beneath seven replicated adults of *Cornus controversa* in the forest understory (FU) and gap (Gap) in the reciprocal seed-sowing experiment.

**Title**: Seedling damages caused by angular leaf spot beneathadults of *Prunus grayana.*

**Description:** This file contains the seedling damage caused by angular leaf spot beneathadults of *Prunus grayana*. This data contains two variables: the proportion (%) of leaves damaged by angular leaf spot, number of leaves attached to a seedling for the seedlings of *Prunus grayana* and *Cornus controversa* beneath seven replicated adults of *Prunus grayana* in the forest understory (FU) and gap (Gap) in the reciprocal seed-sowing experiment.

**Title**: Seedling mass, RGR and infection of AMF

**Description:** This file contains seedling mass, RGR and infection of AMF of *Cornus controversa* and *Prunus grayana* seedlings. This data contains three variables: Seedling mass (g), RGR (g g-1 day-1) and percent infection of AMF (%) of *Cornus controversa* and *Prunus grayana* seedlings beneath the adults of each of the two species in forest understory (FU) and gaps (GAP) in the reciprocal seed-sowing experiment.