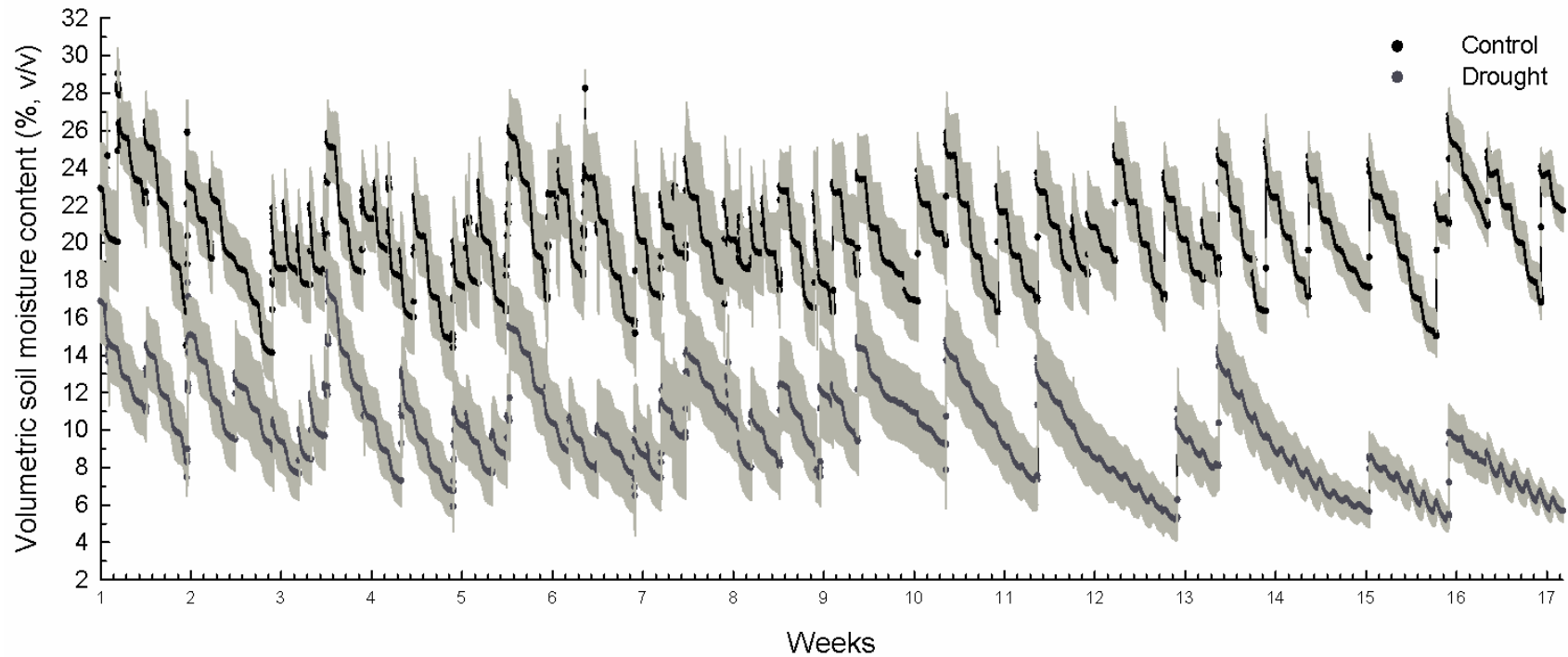


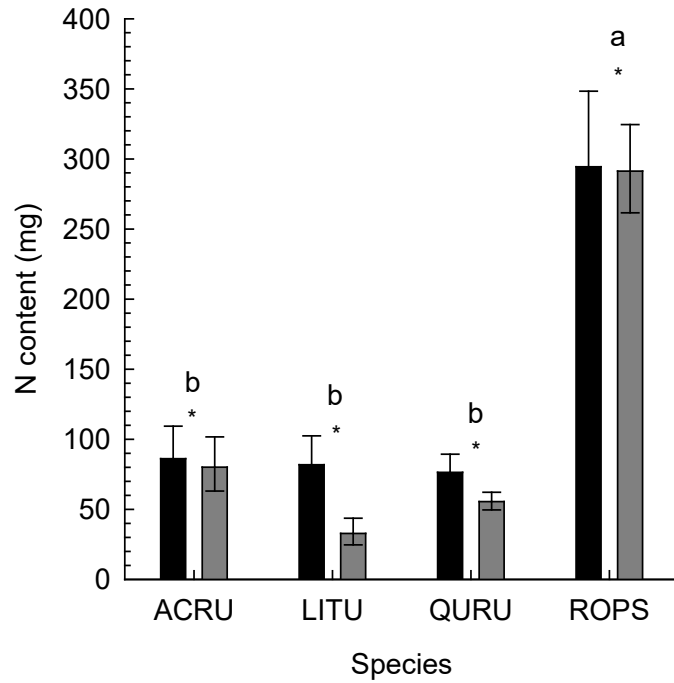
## Supplemental Tables and Figures

Table S1. Allometric equations predicting seedling total dry mass (g) from height (mm) and diameter (mm).

Species	Intercept	Height	Diameter	Height <sup>2</sup> * Diameter	Estimated Leaf Area	n	R <sup>2</sup>	Adjusted R <sup>2</sup>
ACRU	0.0821	-0.0040	0.1402	0.000017	0.0022	10	0.9933	0.9879
LITU	-0.0947	-0.0011	0.0803	0.000002	0.0064	10	0.9876	0.9777
ROPS	-0.0947	-0.0011	0.1653	0.000004	0.0058	10	0.9999	0.9998
QURU	-2.6180	0.0379	0.1754	-0.000036	0.0121	23	0.6921	0.6237



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2 Fig. S1. Mean (SE, light grey area) volumetric soil moisture content (%) in a subset of the experimental mesocosms ( $n = 8$ ) during 17  
3 weeks of the experiment.



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5 Fig. S2. Untransformed mean (SE) plant nitrogen content (mg dry mass) for drought (grey bars)  
 6 and control (black bars) plants in experimental mesocosms. Drought treatment was significant  
 7 for all species (denoted with asterisks). Different letters indicate significant differences among  
 8 species. Species abbreviations are ACRU *Acer rubrum*, LITU *Liriodendron tulipifera*, QURU  
 9 *Quercus rubra*, ROPS *Robinia pseudoacacia*.

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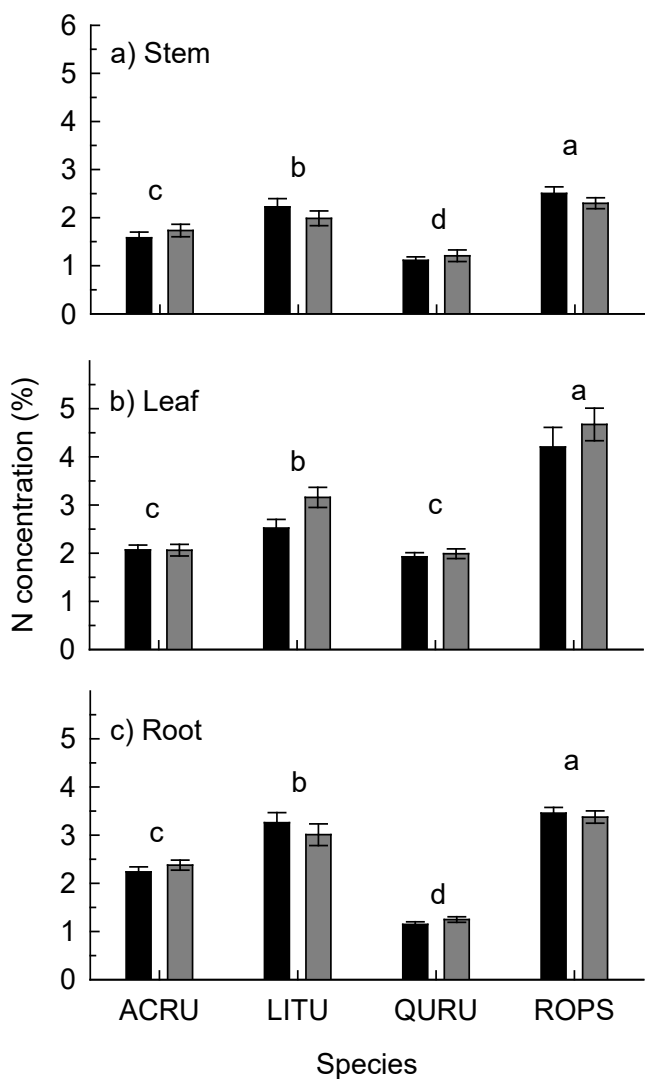
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Fig. S3. Untransformed mean (SE) plant nitrogen concentration (% , mg N mg<sup>-1</sup> dry mass) for drought (grey bars) and control (black bars) plant stems (a), leaves (b), and roots (c) in experimental mesocosms. Drought treatment was not significant for any tissue. Different letters within a tissue type indicate significant differences among species in N concentration. Species abbreviations are ACRU *Acer rubrum*, LITU *Liriodendron tulipifera*, QURU *Quercus rubra*, ROPS *Robinia pseudoacacia*.