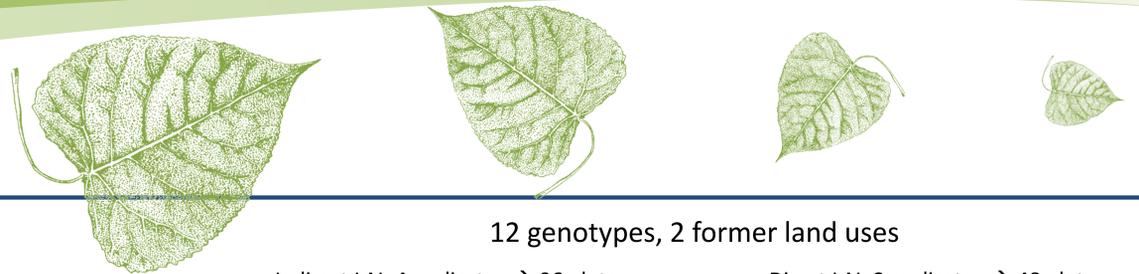
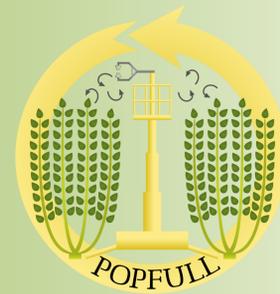


Evolution of leaf area index (LAI) during four years (two rotations) of a SRC poplar plantation

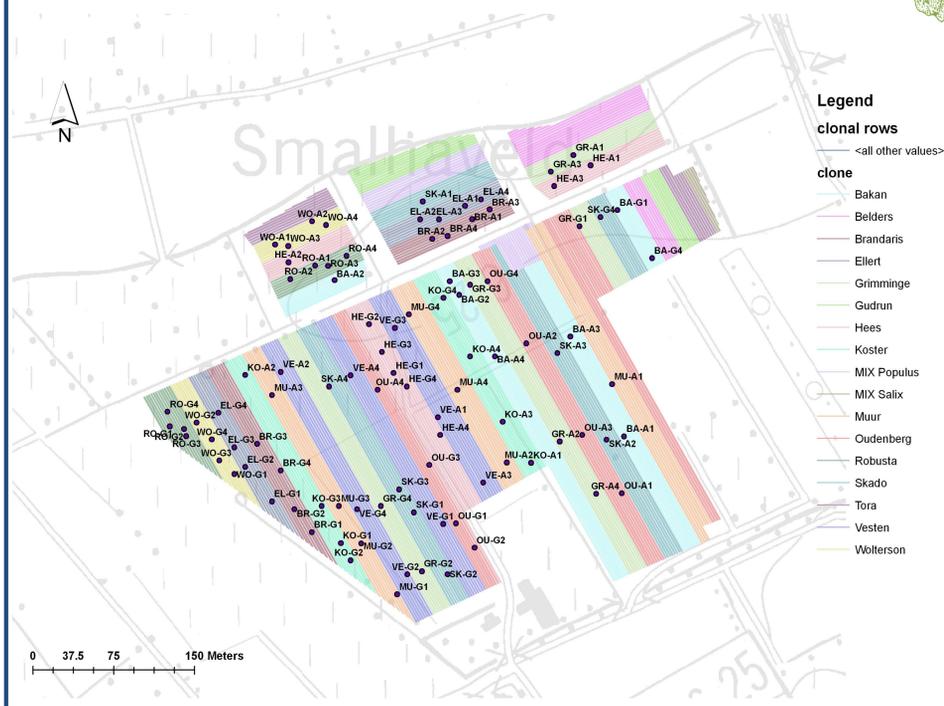
Vanbeveren S., Sarzi Falchi I., Broeckx L. S., Verlinden M. S., Zenone T. & Ceulemans R.

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Methodology



12 genotypes, 2 former land uses

Indirect LAI: 4 replicates → 96 plots

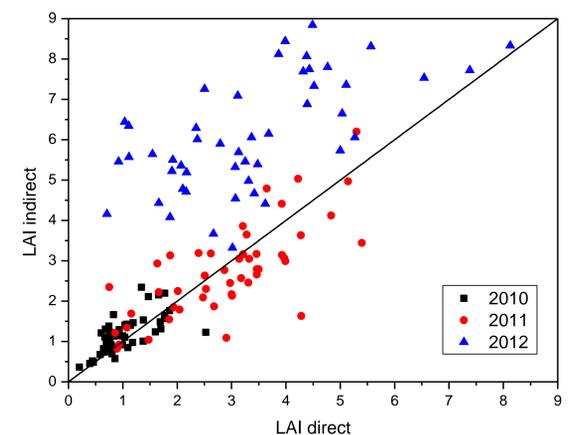
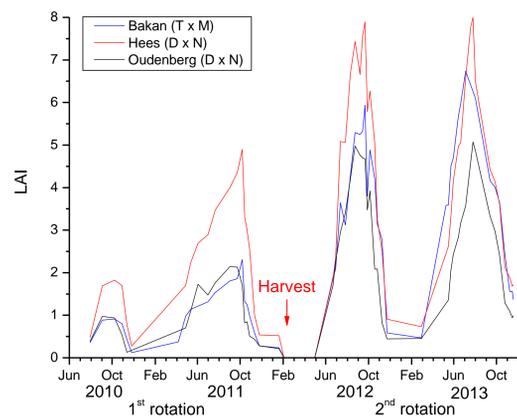
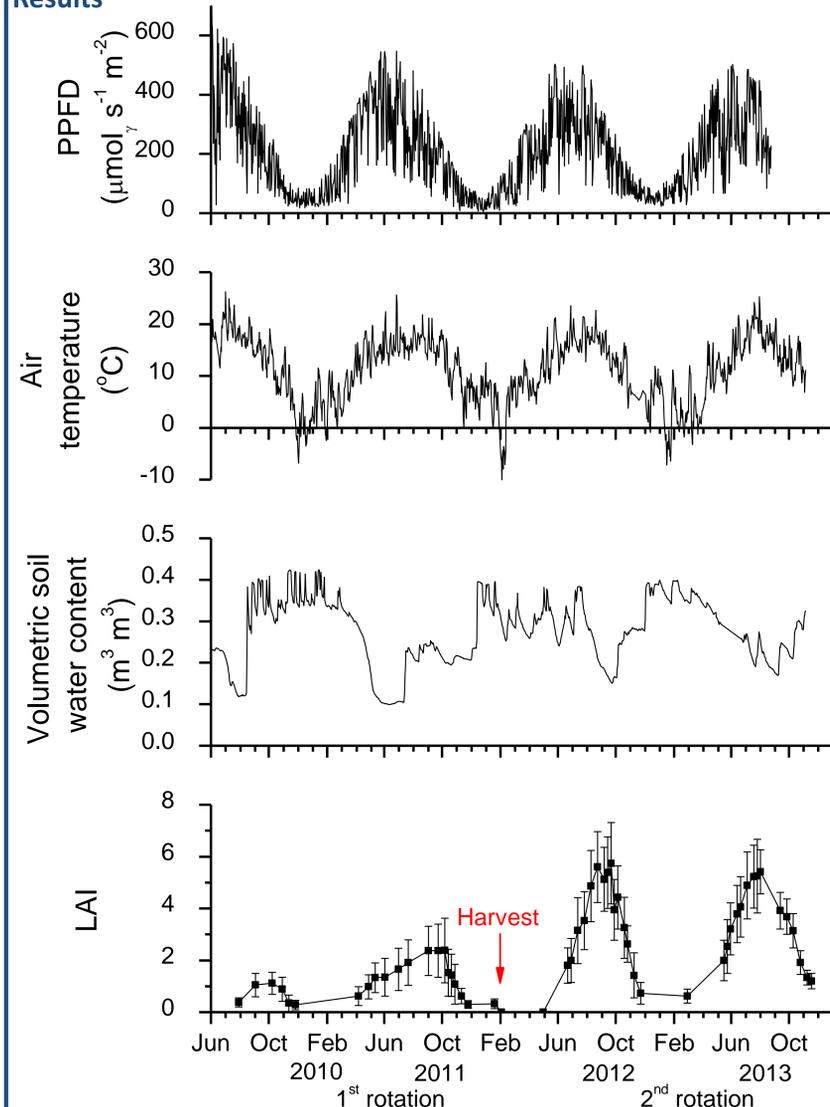
Direct LAI: 2 replicates → 48 plots

Li-Cor LAI-2200

Leaf fall collection



Results



Specific Leaf Area ($\text{m}^2 \text{kg}^{-1}$)		2010	2011	2012	2013
T x M	Bakan	12.62	11.99	11.92	12.64
	Skado		13.25	11.02	11.76
N	Brandaris	10.32	10.13	10.33	11.99
	Wolterson		10.51	11.08	11.62
D x N	Ellert		10.72	12.60	11.81
	Vesten		12.66	11.74	12.27
	Hees		10.93	12.59	13.00
	Koster	11.31	10.54	11.50	11.57
	Muur		12.25	11.68	11.57
D x (T x D)	Oudenberg		11.02	11.05	10.79
	Robusta		11.04	9.95	9.94
	Grimminge	11.92	11.92	10.12	10.40

T *Populus trichocarpa*, M *Populus maximowiczii*, N *Populus nigra*, D *Populus deltoides*

Conclusions

1. Strong genotypic variation
2. Seasonal increase of maximal LAI under comparable seasons
3. Strong influence of single- vs. multi-stem trees on LAI-development



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