

Influence of the amount of water on the growth of one species and four hybrids of Paulownia in the first year of cultivation in Central Europe

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Electronic Supplementary Material (ESM)

The authors are fully responsible for both the content and the formal aspects of the Electronic Supplementary Material. No editorial adjustments were made.

<https://doi.org/10.17221/19/2025-JFS>

Table S1. The percentage differences and the statistically significant values in the total height, length of the current-year shoot and radial growth of the current-year shoot among irrigation groups for each species/hybrid

Total height						
	Species	Shan tong	Clon 112	Hybrid 9502	Tomentosa	
Species	irrigation group	medium	medium	maximum	maximum	
Shan tong	minimum	37%; $P = 0.0001$				
	maximum	23%; $P = 0.0001$				
Clon 112	minimum	32%; $P = 0.0091$				
	maximum	8%; $P = 0.0472$				
Hybrid 9502	minimum	28%; $P = 0.0217$				
	medium	14%; $P = 0.0324$				
Tomentosa	minimum	39%; $P = 0.0001$				
	medium	19%; $P = 0.0003$				
Length of the current-year shoot						
	Species	Shan tong	Clon 112	Hybrid 9502	Tomentosa	
Species	irrigation group	medium	medium	maximum	maximum	
Shan tong	minimum	47%; $P = 0.0001$				
	maximum	31%; $P = 0.0001$				
Clon 112	minimum	48%; $P = 0.0003$				
	maximum	10%; $P = 0.0371$				
Hybrid 9502	minimum	37%; $P = 0.0081$				
	medium	18%; $P = 0.0216$				
Tomentosa	minimum	53%; $P = 0.0001$				
	medium	27%; $P = 0.0001$				
Radial growth of the current-year shoot						
Species	Species	Shan tong	Tomentosa		Bellissia	
	irrigation group	medium	medium	maximum	minimum	medium
Shan tong	minimum	55%; $P = 0.0006$				
	maximum	32%; $P = 0.0009$				
Tomentosa	minimum	40%; $P = 0.0123$ 43%; $P = 0.0148$				
Bellissia	maximum	32%; $P = 0.0091$ 35%; $P = 0.0087$				

The percentages indicate how much shorter or thinner is the mean plant of the species/hybrid under the irrigation group named in the row, compared to that of the species/hybrid under the irrigation group named in the column (e.g. the Shan tong plant under minimum watering was 37% shorter than Shan tong plant under medium watering with $P = 0.0001$)

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Table S2. The percentage differences and the statistically significant values in the total height, length of the current-year shoot and radial growth of the current-year shoot among species/hybrids for each irrigation group

Total height				
Irrigation group	irrigation group		minimum	
	species	Tomentosa	Bellissia	Shan tong
Minimum	Clon 112	14%; $P = 0.0039$	25%; $P = 0.0002$	21%; $P = 0.0068$
Irrigation group	irrigation group		medium	
	species	Tomentosa	Shan tong	Clon 112
	Clon 112		27%; $P = 0.0001$	
Medium	Hybrid 9502	19%; $P = 0.0006$	36%; $P = 0.0001$	36%; $P = 0.0148$
	Bellissia		30%; $P = 0.0001$	
	Tomentosa		21%; $P = 0.0001$	
Irrigation group	irrigation group		maximum	
	species	Tomentosa	Shan tong	Hybrid 9502
	Clon 112	28%; $P = 0.0001$		
Maximum	Hybrid 9502	21%; $P = 0.0001$		
	Bellissia	33%; $P = 0.0001$	18%; $P = 0.0007$	15%; $P = 0.0088$
	Shan tong	18%; $P = 0.0001$		
Length of the current-year shoot				
Irrigation group	irrigation group		minimum	
	species	Tomentosa	Bellissia	Shan tong
Minimum	Clon 112	23%; $P = 0.0069$	36%; $P = 0.0002$	37%; $P = 0.0002$
Irrigation group	irrigation group		medium	
	species	Tomentosa	Shan tong	Clon 112
	Clon 112		35%; $P = 0.0001$	
Medium	Hybrid 9502	20%; $P = 0.0011$	46%; $P = 0.0001$	17%; $P = 0.0010$
	Bellissia		43%; $P = 0.0001$	
	Tomentosa		33%; $P = 0.0001$	
Irrigation group	irrigation group		maximum	
	species	Tomentosa	Shan tong	Hybrid 9502
	Clon 112	37%; $P = 0.0001$		
Maximum	Hybrid 9502	29%; $P = 0.0001$		
	Bellissia	49%; $P = 0.0001$	32%; $P = 0.0001$	28%; $P = 0.0013$
	Shan tong	25%; $P = 0.0001$		

Table S2. To be continued

Radial growth of the current-year shoot					
Irrigation group	irrigation group	medium			
	species	Shan tong			
Medium	Tomentosa	38%; $P = 0.0001$			
	Bellissia	49%; $P = 0.0001$			
	Hybrid 9502	50%; $P = 0.0001$			
	Clon 112	48%; $P = 0.0001$			
Irrigation group	irrigation group	maximum			
	species	Tomentosa	Shan tong	Clon 112	Hybrid 9502
Maximum	Bellissia	49%; $P = 0.0001$	51%; $P = 0.0001$	33%; $P = 0.0148$	33%; $P = 0.0012$
	Clon 112	25%; $P = 0.0371$	27%; $P = 0.0091$		
	Hybrid 9502	25%; $P = 0.0001$	27%; $P = 0.0001$		

The percentages indicate how much shorter or thinner is the mean plant of the species/hybrid under the irrigation group named in the row, compared to that of the species/hybrid under the irrigation group named in the column (e.g. the Clon 112 plant under minimum watering was 14% shorter than Tomentosa plant under minimum watering with $P = 0.0039$)

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Table S3. The percentage differences and the statistically significant values in the leaf biomass, leaf area and projected area among irrigation groups for each species/hybrid

Leaf biomass					
Species	Species irrigation group	Tomentosa medium	Hybrid 9502 medium	Clon 112 medium	Shan tong medium
Tomentosa	minimum	74%; $P = 0.0001$			
	maximum	50%; $P = 0.0001$			
Hybrid 9502	minimum		43%; $P = 0.0001$		
	maximum		41%; $P = 0.0091$		
Clon 112	minimum			41%; $P = 0.0002$	
	maximum			35%; $P = 0.0078$	
Shan tong	minimum				49%; $P = 0.0001$
	maximum				49%; $P = 0.0001$
Leaf area					
Species	Species irrigation group	Tomentosa medium	Hybrid 9502 medium		
Tomentosa	minimum	63%; $P = 0.0001$			
Hybrid 9502	minimum			38%; $P = 0.0001$	
	maximum			38%; $P = 0.0089$	
Projected area					
Species	Species irrigation group	Tomentosa medium	Hybrid 9502 medium	Clon 112 medium	Shan tong medium
Tomentosa	minimum	64%; $P = 0.0001$			
	maximum	54%; $P = 0.0001$			
Hybrid 9502	minimum		62%; $P = 0.0001$		
	maximum		39%; $P = 0.0148$		
Clon 112	minimum			46%; $P = 0.0049$	
	maximum			43%; $P = 0.0078$	
Shan tong	minimum				56%; $P = 0.0001$
	maximum				41%; $P = 0.0087$

The percentages indicate how much lower is biomass or area of the mean plant of the species/hybrid under the irrigation group named in the row, compared to that of the species/hybrid under the irrigation group named in the column (e.g. the mean *Tomentosa* plant under minimum watering had 74% less leaf biomass than mean *Tomentosa* plant under medium watering with $P = 0.0001$)

<https://doi.org/10.17221/19/2025-JFS>

Table S4. The percentage differences and the statistically significant values in the leaf biomass, leaf area and projected area among species/hybrids for each irrigation group

Leaf biomass					
Irrigation group	irrigation group	minimum			
	species	Tomentosa	Bellissia	Clon 112	Shan tong
	Hybrid 9502	48%; $P = 0.0001$	71%; $P = 0.0001$	55%; $P = 0.0001$	68%; $P = 0.0001$
Minimum	Tomentosa				39%; $P = 0.0071$
	Clon 112				29%; $P = 0.0004$
Irrigation group	irrigation group	medium			
	species	Tomentosa	Shan tong	Clon 112	
	Bellissia	59%; $P = 0.0001$	51%; $P = 0.0001$		
Medium	Hybrid 9502	77%; $P = 0.0001$	72%; $P = 0.0001$	53%; $P = 0.0002$	
	Clon 112	50%; $P = 0.0091$	39%; $P = 0.0091$		
Irrigation group	irrigation group	maximum			
	species	Tomentosa			
Maximum	Hybrid 9502	73%; $P = 0.0001$			
	Clon 112	36%; $P = 0.0001$			
Leaf area					
Irrigation group	irrigation group	minimum			
	species	Tomentosa	Clon 112	Shan tong	
Minimum	Hybrid 9502	50%; $P = 0.0001$	51%; $P = 0.0001$	66%; $P = 0.0001$	
Irrigation group	irrigation group	medium			
	species	Tomentosa	Shan tong		
Medium	Hybrid 9502	71%; $P = 0.0001$	66%; $P = 0.0001$		
Irrigation group	irrigation group	maximum			
	species	Tomentosa	Clon 112		
Maximum	Hybrid 9502	70%; $P = 0.0001$	47%; $P = 0.0001$		
	Clon 112	45%; $P = 0.0001$			
Projected area					
Irrigation group	irrigation group	minimum			
	species	Bellissia	Tomentosa		
	Hybrid 9502	57%; $P = 0.0001$	43%; $P = 0.0001$		
Minimum	Clon 112	46%; $P = 0.0001$	28%; $P = 0.0006$		
	Shan tong	53%; $P = 0.0001$	38%; $P = 0.0001$		
Irrigation group	irrigation group	medium			
	species	Tomentosa			
	Bellissia	49%; $P = 0.0001$			
Medium	Hybrid 9502	45%; $P = 0.0001$			
	Clon 112	51%; $P = 0.0001$			
	Shan tong	49%; $P = 0.0001$			
Irrigation group	irrigation group	maximum			
	species	Tomentosa	Bellissia		
	Clon 112	40%; $P = 0.0011$	47%; $P = 0.0001$		
Maximum	Shan tong	35%; $P = 0.0014$	43%; $P = 0.0001$		
	Hybrid 9502	28%; $P = 0.0001$	37%; $P = 0.0001$		

Table S4. To be continued

<i>LAI</i> (leaf area index)			
	irrigation group	minimum	
Irrigation group	species	Shan tong	Clon 112
Minimum	Hybrid 9502	48%; $P = 0.0032$	36%; $P = 0.0381$
	irrigation group	medium	
Irrigation group	species	Shan tong	
	Tomentosa	58%; $P = 0.0001$	
	Bellissia	62%; $P = 0.0001$	
Medium	Hybrid 9502	62%; $P = 0.0001$	
	Clon 112	54%; $P = 0.0001$	
	irrigation group	maximum	
Irrigation group	species	Bellissia	
	Clon 112	50%; $P = 0.0010$	
Maximum	Hybrid 9502	40%; $P = 0.0011$	

The percentages indicate how much lower is the biomass, area or *LAI* value of the mean plant of the species/hybrid under the irrigation group named in the row, compared to that of the species/hybrid under the irrigation group named in the column (e.g. the mean Hybrid 9502 plant under minimum watering had 48% less leaf biomass than the mean *Tomentosa* plant under minimum watering with $P = 0.0001$)