

Table S1. Effect of distances between trees and seasonality on the photosynthetic indices.

	Stomatal conductance (mol H ₂ O m ⁻² s ⁻¹)			Photosynthetic rate (μmol CO ₂ m ⁻² s ⁻¹)			Transpiration rate (mmol H ₂ O m ⁻² s ⁻¹)		
	May	July	August	May	July	August	May	July	August
3x0.25	0.055	0.021	0.029	8.34	11.18	13.47	1.76	0.95	0.94
	d	c	c	d	c	d	c	b	c
3x0.50	0.088	0.033	0.042	11.40	12.93	15.67	2.21	1.07	1.42
	c	bc	bc	c	bc	c	bc	b	bc
3x0.75	0.106	0.037	0.053	12.33	14.17	18.99	2.49	1.18	1.69
	b	b	b	b	b	b	ab	ab	b
3x1.00	0.137	0.051	0.072	13.58	17.60	21.17	2.89	1.51	2.11
	a	a	a	a	a	a	a	a	a
F actual									
Factor A (distances)	**			**			**		
Factor B (Development stages)	**			**			**		
Interaction AB	ns			ns			ns		

The different letters in columns indicate significant differences. The data were processed using analysis of variance (Anova), the Turkey (HSD) test at the confidence level p = 0.05, *p<0.05; **p<0.01 shows significant differences, ns – no significant differences.

Table S2. Effect of distances between trees and seasonality on the photosynthetic pigments.

	Chlorophyll a mg g ⁻¹ FW			Chlorophyll b mg g ⁻¹ FW			Carotenes (α+β) mg g ⁻¹ FW		
	May	July	August	May	July	August	May	July	August
3x0.25	1.378	2.272	2.059	0.133	0.241	0.192	0.018	0.023	0.019
	ab	b	a	ab	b	a	b	b	bc
3x0.50	1.560	2.331	1.986	0.153	0.253	0.189	0.018	0.020	0.020
	b	b	a	b	b	a	b	ab	c
3x0.75	1.314	1.910	2.069	0.120	0.194	0.199	0.015	0.018	0.017
	ab	a	a	a	a	a	a	a	a
3x1.00	1.131	2.013	2.075	0.126	0.211	0.192	0.015	0.019	0.018
	a	ab	a	ab	a	a	a	a	ab
F actual									
Factor A (distances)	ns			ns			ns		
Factor B (Development stages)	*			**			*		
Interaction AB	ns			ns			ns		

The different letters in columns indicate significant differences. The data were processed using analysis of variance (Anova), the Turkey (HSD) test at the confidence level p = 0.05, *p<0.05; **p<0.01 shows significant differences, ns – no significant differences.

Table S3. Effect of distances between trees and seasonality on the carbohydrates.

	Fructose			Glucose			Sorbitol			Starch		
	mg g ⁻¹ FW			mg g ⁻¹ FW			mg g ⁻¹ FW			mg g ⁻¹ FW		
	May	July	August	May	July	August	May	July	August	May	July	August
3x0.25	5.24 ab	4.74 a	4.41 b	19.4 b	19.7 ab	22.35 a	33.43 b	29.37 ab	42.81 a	1.12 a	3.15 a	3.66 a
3x0.50	5.09 ab	3.87 b	5.89 a	21.9 a	20.34 a	23.25 a	34.81 b	29.79 ab	41.42 b	0.83 b	2.77 b	2.83 b
3x0.75	5.79 a	3.88 b	5.59 a	20 ab	18.48 b	22.47 a	37.8 a	27.06 b	41.45 ab	0.77 bc	2.57 b	2.07 c
3x1.00	4.44 b	3.79 b	5.33 ab	20.1 ab	20.97 a	22.23 a	33.43 b	30.76 a	42.04 ab	0.6 c	2 c	1.72 c
F actual												
Factor A (distances)	ns			*			ns			**		
Factor B (Development stages)	**			**			**			**		
Interaction n AB	ns			ns			ns			ns		

The different letters in columns indicate significant differences. The data were processed using analysis of variance (Anova), the Turkey (HSD) test at the confidence level p = 0.05, *p<0.05; **p<0.01 shows significant differences, ns – no significant differences.