

Supplementary Table 1. Analysis of variance of Persian walnut families for the physiological characteristics under different irrigation conditions.

S.O.V.	df	Normal condition						
		RWC	SPAD	F _M /F ₀	F _v /F ₀	F _v /F _M	Psi- ₀	DI ₀ /RC
Block	2	0.113ns	0.089ns	0.001**	0.001**	0.001**	0.001**	0.001**
Families	114	39.713**	62.952**	0.367**	0.367**	0.001**	0.01**	0.035**
Error	228	0.073	0.078	4.88E-06	4.88E-06	5.65E-06	1.23E-05	6.20E-06
S.O.V.	df	Water-deficit stress condition						
		RWC	SPAD	F _M /F ₀	F _v /F ₀	F _v /F _M	Psi- ₀	DI ₀ /RC
Block	2	0.279*	0.813**	0.004**	0.004**	0.004**	0.001**	0.003**
Families	114	101.644**	52.583**	1.008**	1.008**	0.015**	0.012**	0.524**
Error	228	0.051	0.078	6	5.35	4.6	9.92	6.5

ns: Not Significant; *, **: Significant at $p \leq 0.05$ and $p \leq 0.01$, respectively.

Supplementary Table 1 continued

S.O.V.	df	Normal condition						
		Phi-E ₀	Phi-D ₀	Phi-Pav	Pi-ABS	ABS/RC	TR ₀ /RC	ET ₀ /RC
Block	2	0.001**	0.001**	0.019ns	0.002**	0.006*	0.001**	0.003**
Families	114	0.008**	0.001**	511.701**	0.374**	0.3**	0.152**	0.057**
Error	228	4.64E-06	5.24E-06	0.039	2.16E-05	0.002	5.11E-06	0
S.O.V.	df	Water-deficit stress condition						
		Phi-E ₀	Phi-D ₀	Phi-Pav	Pi-ABS	ABS/RC	TR ₀ /RC	ET ₀ /RC
Block	2	0.002**	0.004**	0.233ns	0.004**	0.006**	0.003**	0.004**
Families	114	0.011**	0.014**	400.563**	0.115**	0.905**	0.192**	0.053**
Error	228	2.05	3.2	0.235	4.24	0	0	8.04

ns: Not Significant; *, **: Significant at $p \leq 0.05$ and $p \leq 0.01$, respectively.

Supplementary Table 2. Analysis of variance of the 15 selected Persian walnut families for the physiological characteristics under different irrigation conditions.

S.O.V.	df	Normal condition						
		RWC	SPAD	F _M /F ₀	F _v /F ₀	F _v /F _M	Psi- ₀	DI ₀ /RC
Block	2	0.01 ^{ns}	0.025 ^{ns}	0.0001**	0.0001**	0.0001**	0.0001 ^{ns}	0.0001**
Families	14	24.11**	38.51**	0.29**	0.29**	0.001**	0.005**	0.031**
Error	28	0.04	0.078	0.00001	0.00001	0.00001	0.00001	0.00001
S.O.V.	df	Water-deficit stress condition						
		RWC	SPAD	F _M /F ₀	F _v /F ₀	F _v /F _M	Psi- ₀	DI ₀ /RC
Block	2	0.056 ^{ns}	0.063 ^{ns}	0.0001**	0.0001**	0.0001**	0.0001**	0.0001**
Families	14	334.544**	176.687**	2.273**	2.273**	0.036**	0.024**	0.896**
Error	28	0.028	0.056	0.00001	0.00001	0.00001	0.00001	0.00001

ns: Not Significant; *, **: Significant at $p \leq 0.05$ and $p \leq 0.01$, respectively.

Supplementary Table 2 continued

S.O.V.	df	Normal condition						
		Phi-E ₀	Phi-D ₀	Phi-Pav	Pi-ABS	ABS/RC	TR ₀ /RC	ET ₀ /RC
Block	2	0.0001**	0.175ns	0.001*	0.0001 ^{ns}	0.0001**	0.0001**	0.0001**
Families	14	0.001**	261.279**	0.14**	0.341**	0.198**	0.068**	0.001**
Error	28	0.00001	0.310	0.00001	0.00001	0.00001	0.00001	0.00001
		Water-deficit stress condition						
		Phi-E ₀	Phi-D ₀	Phi-Pav	Pi-ABS	ABS/RC	TR ₀ /RC	ET ₀ /RC
Block	2	0.0001**	0.0001**	0.0001**	0.001*	0.0001**	0.0001**	0.0001**
Families	14	0.036**	503.715**	0.146**	0.789**	0.248**	0.138**	0.036**
Error	28	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001

ns: Not Significant; *, **: Significant at $p \leq 0.05$ and $p \leq 0.01$, respectively.