

Influence of light spectra from LEDs and scion × rootstock genotype combinations on the quality of grafted watermelon seedlings - Supplementary

Supplementary Table S1. Analysis of variance for the effect of light treatment and watermelon × interspecific squash (W×S) genotype combination on important qualitative characteristics of grafted watermelon seedlings. R/S: root-to-shoot dry weight ratio; Chl content: relative chlorophyll content; DW/L: shoot dry weight-to-length ratio; DQI: Dickson's quality index; a*: red/green coordinate; b*: yellow/blue coordinate.

Parameter	Light	W×S	Light * W×S
Shoot length	***	ns	***
Stem diameter	***	ns	**
Leaf area	***	ns	ns
Shoot dry weight	*	**	ns
Root dry weight	ns	**	**
R/S ratio	ns	ns	*
DW/L	**	*	**
DQI	*	*	***
Chl content	**	ns	**
Lightness	***	ns	**
Chroma	***	ns	*
Hue angle	***	ns	ns
a*/b*	***	ns	ns

ns: non-significant

*, **, and ***: significant difference at $p \leq 0.050$, $p \leq 0.010$, and $p \leq 0.001$, respectively

Supplementary Table S2. Colorimetric parameters of grafted watermelon seedlings derived from four watermelon × interspecific squash genotype combinations, and after illumination by seven light treatments during healing. a*: red/green coordinate; b*: yellow/blue coordinate. Mean values (± SE) within a scion × rootstock genotype combination followed by different letters are significantly different ($p \leq 0.05$).

Light treatment	Lightness	Chroma	Hue angle	a*/b*
Celine F1 × TZ-148				
R	41.28 ±	25.65 ±	128.10 ±	-0.78 ±
	0.53 a	0.85 a	0.48 a	0.01 a
B	41.06 ±	26.01 ±	128.53 ±	-0.80 ±
	0.39 a	0.95 a	0.42 a	0.01 a
36B	40.29 ±	25.84 ±	129.15 ±	-0.81 ±
	0.85 a	1.05 a	0.43 a	0.01 a
24B	40.37 ±	24.50 ±	129.60 ±	-0.83 ±
	0.34 a	0.66 a	0.47 a	0.01 a
12B	40.47 ±	24.29 ±	129.62 ±	-0.83 ±
	0.75 a	0.87 a	0.40 a	0.01 a
12B+FR	40.95 ±	26.21 ±	128.89 ±	-0.81 ±
	0.63 a	1.50 a	0.57 a	0.02 a
W	41.55 ±	25.36 ±	128.31 ±	-0.79 ±
	0.45 a	0.85 a	0.30 a	0.01 a
Sunny Florida F1 × TZ-148				
R	40.35 ±	26.79 ±	128.42 ±	-0.79 ±
	0.63 b	0.86 ab	0.41 ab	0.01 ab
B	42.63 ±	29.69 ±	127.32 ±	-0.76 ±
	0.74 a	1.54 a	0.54 b	0.02 a
36B	39.57 ±	25.10 ±	129.15 ±	-0.81 ±
	0.43 b	0.43 b	0.25 a	0.01 b
24B	39.20 ±	24.65 ±	129.32 ±	-0.82 ±
	0.55 b	0.76 b	0.46 a	0.01 b
12B	39.18 ±	24.93 ±	129.09 ±	-0.81 ±
	0.35 b	0.51 b	0.21 a	0.01 b
12B+FR	41.09 ±	26.78 ±	128.50 ±	-0.80 ±
	0.46 ab	0.57 ab	0.36 ab	0.01 ab
W	41.14 ±	27.06 ±	128.30 ±	-0.79 ±
	0.32 ab	0.47 ab	0.33 ab	0.01 ab
Celine F1 × Radik				
R	41.28 ±	26.69 ±	128.50 ±	-0.80 ±
	0.24 ab	0.59 b	0.27 bc	0.01 b
B	43.10 ±	30.67 ±	127.23 ±	-0.76 ±
	0.48 a	1.04 a	0.34 c	0.01 a
36B	40.87 ±	26.62 ±	128.87 ±	-0.81 ±
	0.62 b	1.05 b	0.38 ab	0.01 bc
24B	39.22 ±	23.05 ±	129.84 ±	-0.83 ±
	0.50 b	0.46 c	0.16 a	0.01 c
12B	39.67 ±	26.22 ±	128.67 ±	-0.80 ±
	0.33 b	0.60 bc	0.34 ab	0.01 bc
12B+FR	39.28 ±	26.03 ±	128.72 ±	-0.80 ±
	0.65 b	0.74 bc	0.29 ab	0.01 bc
W	39.31 ±	24.75 ±	129.21 ±	-0.82 ±
	0.34 b	0.53 bc	0.23 ab	0.01 bc
Sunny Florida F1 × Radik				

R	40.81 ±	24.98 ±	128.88 ±	-0.81 ±
	0.77 a	1.06 b	0.31 a	0.01 b
B	41.86 ±	29.78 ±	127.01 ±	-0.75 ±
	0.68 a	0.80 a	0.25 b	0.01 a
36B	41.14 ±	26.56 ±	128.88 ±	-0.81 ±
	0.79 a	1.57 ab	0.72 a	0.02 b
24B	41.01 ±	26.39 ±	128.56 ±	-0.80 ±
	0.59 a	0.64 ab	0.24 ab	0.01 ab
12B	40.38 ±	26.78 ±	128.80 ±	-0.80 ±
	0.32 a	0.76 ab	0.36 a	0.01 ab
12B+FR	40.95 ±	25.41 ±	129.18 ±	-0.82 ±
	0.35 a	0.66 b	0.25 a	0.01 b
W	40.24 ±	25.58 ±	128.59 ±	-0.80 ±
	0.48 a	0.89 b	0.43 ab	0.01 ab