Supplementary material

Table S1. Irrigation water salinity and genotype effects on microbial biomass (MBC and MBN).

Factors	MBC[a] (mg C kg^{-1})				
	6 leaves (Z16)	**Tillering (Z30)**	**Flowering (Z65)**	**Maturity (Z85)**	**Harvesting (Z92)**
Irrigation water salinity (S)					
0.3 dS m^{-1}	292.60[b] [a] [c]	341.72[a]	365.19[a]	228.00[a]	122.40[a]
12 dS m^{-1}	250.36[b] *(-14.43%)*[d]	272.29[b] *(-20.31%)*	226.28[b] *(-38.03%)*	150.45[b] *(-34.01%)*	102.40[b] *(-16.34%)*
Genotypes (G)					
Agili Glabre	345.85[a]	391.64[a]	355.50[a]	195.65[ab]	102.05[bc]
Bayadha	239.34[b]	272.00[b]	219.36[b]	159.76[b]	136.00[a]
Maali	268.59[b]	375.02[a]	361.23[a]	212.68[a]	116.57[ab]
Razzek	232.14[b]	189.37[c]	246.85[b]	188.80[ab]	95.97[c]
ANOVA					
Salinity (S)	***	***	***	***	***
Genotypes (G)	***	***	***	***	***
S × G	***	**	***	***	***
	MBN (mg N kg^{-1})				
Irrigation water salinity (S)					
0.3 dS m^{-1}	36.23[a]	39.88[a]	46.52[a]	31.51[a]	17.11[a]
12 dS m^{-1}	29.98[b] *(-17.25%)*	40.06[a] *(+0.45%)*	29.55[b] *(-36.47%)*	22.49[b] *(-28.62%)*	14.36[b] *(-16.07%)*
Genotypes (G)					
Agili Glabre	35.04[a]	42.56[a]	40.38[a]	32.48[a]	18.99[a]
Bayadha	32.56[b]	38.54[b]	38.64[ab]	24.57[b]	14.13[b]
Maali	32.85[b]	38.87[b]	35.77[b]	24.82[b]	15.12[b]
Razzek	31.98[ab]	39.92[ab]	36.96[b]	26.13[b]	14.53[b]
ANOVA					
Salinity (S)	***	NS[e]	***	***	***
Genotypes (G)	***	***	***	***	***
S × G	***	***	***	***	**

**, ***Significant at $P \leq 0.01$ and $P \leq 0.001$, respectively.

[a] See Fig. 1 for abbreviations.

[b] For each growth stage, irrigation water salinity values are the means of 20 measurements (4 genotypes and 5 replicates), while the genotype values are the means calculated from 10 measurements (2 irrigation water salinity and 5 replicates).

[c] Means followed by different letters are significantly different at $P \leq 0.05$ (Tukey test).

[d] Values in parentheses indicate the rates of increase or decrease of each parameter according to the control treatment (0.3 dS m^{-1}).

[e] Not significant.

Table S2. Irrigation water salinity and genotype effects on enzyme activities (D-ase, Alk-ase, and P-ase).

Factors	6 leaves (Z16)	Tillering (Z30)	Flowering (Z65)	Maturity (Z85)	Harvesting (Z92)
	D-ase[a] (µg INTF g^{-1} h^{-1})				
Irrigation water salinity (S)					
0.3 dS m^{-1}	11.90[b] [a] [c]	14.98[a]	11.21[a]	10.36[a]	7.56[a]
12 dS m^{-1}	10.10[b] *(-15.13%)*[d]	11.90[b] *(-20.56%)*	8.47[b] *(-24.44%)*	6.74[b] *(-34.94%)*	5.12[b] *(-32.27%)*
Genotypes (G)					
Agili Glabre	12.00[a]	15.12[a]	11.97[a]	10.67[a]	7.21[a]
Bayadha	11.52[a]	10.61[b]	6.28[c]	5.48[b]	4.96[b]
Maali	10.84[ab]	16.95[a]	12.37[a]	10.80[a]	8.87[a]
Razzek	9.64[b]	11.07[b]	8.75[b]	7.25[b]	4.32[b]
ANOVA					
Salinity (S)	***	***	***	***	***
Genotypes (G)	***	***	***	***	***
S × G	***	***	***	***	***
	Alk-ase (µg *p*-NP g^{-1} h^{-1})				
Irrigation water salinity (S)					
0.3 dS m^{-1}	9.60[a]	57.31[a]	64.96[a]	36.14[a]	17.34[a]
12 dS m^{-1}	7.27[b] *(-24.27%)*	40.45[b] *(-29.42%)*	46.13[b] *(-28.99%)*	30.20[b] *(-16.44%)*	16.54[a] *(-4.61%)*
Genotypes (G)					
Agili Glabre	6.18[b]	66.00[a]	50.22[b]	32.99[b]	21.01[a]
Bayadha	10.30[a]	34.89[b]	54.40[b]	26.27[c]	11.19[c]
Maali	9.44[ab]	28.66[b]	73.48[a]	49.93[a]	18.89[ab]
Razzek	7.82[ab]	65.98[a]	44.69[b]	23.50[c]	16.83[b]
ANOVA					
Salinity (S)	***	***	***	***	NS[e]
Genotypes (G)	***	***	***	***	***
S × G	***	***	***	***	***
	P-ase (µg tyr g^{-1} h^{-1})				
Irrigation water salinity (S)					
0.3 dS m^{-1}	33.77[a]	37.35[a]	39.85[a]	28.52[a]	15.87[a]
12 dS m^{-1}	31.17[b] *(-7.70%)*	29.49[b] *(-21.04%)*	30.71[b] *(-22.94%)*	21.24[b] *(-25.52%)*	12.43[b] *(-21.67%)*
Genotypes (G)					
Agili Glabre	32.54[b]	33.87[a]	36.25[a]	25.70[a]	14.44[ab]
Bayadha	30.13[c]	30.91[a]	34.01[a]	21.61[b]	11.86[c]
Maali	34.89[a]	35.56[a]	34.81[a]	25.91[a]	16.79[a]
Razzek	32.33[b]	33.36[a]	36.07[a]	25.30[a]	13.51[bc]
ANOVA					
Salinity (S)	***	***	***	***	***
Genotypes (G)	***	NS	NS	***	***
S × G	**	***	NS	***	**

**, ***Significant at $P \leq 0.01$ and $P \leq 0.001$, respectively.

[a] See Fig. 2 for abbreviations.

[b] For each growth stage, irrigation water salinity values are the means of 20 measurements (4 genotypes and 5 replicates), while the genotype values are the means calculated from 10 measurements (2 irrigation water salinity and 5 replicates).

[c] Means followed by different letters are significantly different at $P \leq 0.05$ (Tukey test).

[d] Values in parentheses indicate the rates of increase or decrease of each parameter according to the control treatment (0.3 dS m^{-1}).

[e] Not significant.

Table S3. Irrigation water salinity and genotype effects on mineral nutrients (available P and N).

Factors	Available P[a] (mg kg^{-1})				
	6 leaves (Z16)	**Tillering (Z30)**	**Flowering (Z65)**	**Maturity (Z85)**	**Harvesting (Z92)**
Irrigation water salinity (S)					
0.3 dS m^{-1}	12.11[b,c]	23.97^{a}	17.17^{b}	12.81^{c}	7.50^{d}
12 dS m^{-1}	8.48^{c} *(-29.96%)*[d]	22.69^{a} *(-5.36%)*	16.20^{b} *(-5.64%)*	9.10^{c} *(-36.95%)*	4.97^{d} *(-33.70%)*
Genotypes (G)					
Agili Glabre	8.30^{b}	29.85^{a}	13.15^{b}	14.03^{a}	7.96^{a}
Bayadha	15.09^{a}	17.23^{c}	11.44^{b}	8.03^{c}	6.88^{b}
Maali	9.73^{b}	25.49^{ab}	20.98^{a}	10.93^{b}	6.26^{b}
Razzek	8.05^{b}	20.74^{b}	21.18^{a}	10.82^{b}	3.83^{c}
ANOVA					
Salinity (S)	NS[e]	NS	**	***	***
Genotypes (G)	***	NS	***	***	***
S × G	***	NS	*	***	**
	Available N (mg kg^{-1})				
Irrigation water salinity (S)					
0.3 dS m^{-1}	35.56^{a}	38.81^{a}	40.92^{a}	29.91^{b}	25.69^{b}
12 dS m^{-1}	27.45^{a} *(-22.80%)*	22.76^{b} *(-27.14%)*	31.25^{a} *(-23.63%)*	22.21^{b} *(-25.74%)*	20.50^{c} *(-20.18%)*
Genotypes (G)					
Agili Glabre	23.31^{c}	25.50^{c}	39.48^{b}	25.98^{b}	25.35^{ab}
Bayadha	32.22^{b}	22.87^{c}	24.55^{bc}	19.80^{c}	16.34^{b}
Maali	40.77^{a}	47.91^{a}	48.83^{a}	33.45^{a}	29.56^{a}
Razzek	29.77^{ab}	34.89^{b}	31.49^{c}	25.02^{b}	12.16^{c}
ANOVA					
Salinity (S)	***	***	***	***	***
Genotypes (G)	***	***	***	***	***
S × G	NS	***	***	***	***

*, **, ***Significant at $P \leq 0.05$, $P \leq 0.01$, and $P \leq 0.001$, respectively.

[a] See Fig. 3 for abbreviations.

[b] For each growth stage, irrigation water salinity values are the means of 20 measurements (4 genotypes and 5 replicates), while the genotype values are the means calculated from 10 measurements (2 irrigation water salinity and 5 replicates).

[c] Means followed by different letters are significantly different at $P \leq 0.05$ (Tukey test).

[d] Values in parentheses indicate the rates of increase or decrease of each parameter according to the control treatment (0.3 dS m^{-1}).

[e] Not significant.

Table S4. Irrigation water salinity and genotype effects on component yields (NG and GY).

Factors	NG[a)]	GY (g)
Irrigation water salinity (S)		
0.3 dS m^{-1}	146.75[b) a c)]	4.98[a]
12 dS m^{-1}	137.32[b] *(-6.42%)*[d)]	3.67[b] *(-26.30%)*
Genotypes (G)		
Agili Glabre	134.50[c]	4.42[b]
Bayadha	139.80[b]	4.08[c]
Maali	149.80[a]	4.82[a]
Razzek	140.10[b]	3.94[d]
ANOVA		
Salinity (S)	***	***
Genotypes (G)	***	***
S × G	***	***

***Significant at $P \leq 0.001$.

a) See Fig. 4 for abbreviations.

b) Irrigation water salinity values are the means of 20 measurements (4 genotypes and 5 replicates), while the genotype values are the means calculated from 10 measurements (2 irrigation water salinity and 5 replicates).

c) Means followed by different letters are significantly different at $P \leq 0.05$ (Tukey test).

d) Values in parentheses indicate the rates of increase or decrease of each parameter according to the control treatment (0.3 dS m^{-1}).