

Table S1. Phosphorus (P), nitrogen (N), potassium (K), calcium (Ca), sodium (Na) and chlorine (Cl) uptake of date palm plants grown in the absence (0 mM NaCl) and presence (240 mM NaCl) of salt stress with the application of compost and AMF alone or in combination after 10 and 14 months of cultivation.

NaCl Level	Treatment s	10 Months of Cultivation						14 Months of Cultivation					
		P	N	K	Ca	Na	Cl	P	N	K	Ca	Na	Cl
0 mM	Control	2.97 ± 0.41 ^{jk}	2.61 ± 0.24 ^h	15.08 ± 1.32 ^g	16.07 ± 0.98 ^f	29.26 ± 1.30 ^j	42.93 ± 2.39 ⁱ	3.61 ± 0.22 ^j	2.64 ± 0.10 ^h	13.41 ± 1.35 ^{hi}	13.92 ± 0.76 ^g	28.60 ± 1.58 ⁱ	44.72 ± 3.83 ^{hi}
	Compost	8.16 ± 0.77 ^f	5.49 ± 0.06 ^a	29.55 ± 2.32 ^a	20.12 ± 0.29 ^b	36.21 ± 1.42 ^h	49.72 ± 1.48 ^g	6.87 ± 0.30 ^g	4.51 ± 0.22 ^b	25.55 ± 1.13 ^b	17.99 ± 0.69 ^d	34.88 ± 1.78 ^{hi}	52.89 ± 3.73 ^f
	AMF	10.86 ± 0.99 ^d	4.35 ± 0.08 ^c	21.64 ± 0.66 ^{cd}	20.91 ± 0.28 ^b	38.91 ± 3.96 ^g	49.17 ± 3.16 ^g	9.94 ± 2.24 ^e	4.02 ± 0.28 ^d	21.64 ± 1.48 ^{cd}	20.78 ± 1.79 ^b	32.57 ± 2.39 ⁱ	47.28 ± 3.48 ^{gh}
	Compost+ AMF	19.49 ± 1.01 ^a	4.62 ± 0.08 ^b	20.40 ± 1.14 ^d	23.71 ± 0.61 ^a	40.24 ± 3.58 ^g	54.22 ± 2.39 ^f	16.11 ± 0.63 ^b	4.64 ± 0.36 ^b	22.73 ± 1.37 ^c	20.71 ± 0.61 ^b	34.91 ± 3.08 ^{hi}	53.22 ± 3.00 ^f
240 mM	Control	1.69 ± 0.18 ^l	1.94 ± 0.10 ⁱ	9.47 ± 0.81 ^j	12.13 ± 0.64 ^h	91.03 ± 2.06 ^a	89.75 ± 3.18 ^a	2.60 ± 0.36 ^k	1.82 ± 0.06 ⁱ	7.80 ± 1.02 ^k	10.13 ± 0.60 ⁱ	92.36 ± 4.05 ^a	87.20 ± 5.58 ^a
	Compost	5.44 ± 1.06 ^h	3.30 ± 0.06 ^f	16.87 ± 1.58 ^f	16.97 ± 0.99 ^e	79.43 ± 1.12 ^b	80.57 ± 1.92 ^b	4.70 ± 0.15 ⁱ	2.76 ± 0.13 ^h	17.20 ± 1.15 ^f	13.31 ± 0.83 ^g	72.76 ± 3.81 ^c	79.08 ± 3.62 ^{bc}
	AMF	6.61 ± 0.06 ^g	3.33 ± 0.08 ^f	13.20 ± 0.75 ⁱ	17.96 ± 1.17 ^d	77.27 ± 1.86 ^b	76.92 ± 0.21 ^c	5.63 ± 0.10 ^h	3.38 ± 0.21 ^f	14.53 ± 0.93 ^{gh}	17.63 ± 0.38 ^{de}	63.93 ± 1.34 ^e	72.15 ± 2.72 ^d
	Compost+ AMF	16.29 ± 0.06 ^b	3.00 ± 0.08 ^g	16.35 ± 0.72 ^f	19.16 ± 0.50 ^c	67.43 ± 2.43 ^d	69.65 ± 3.37 ^d	13.61 ± 0.62 ^c	3.56 ± 0.24 ^e	19.01 ± 2.21 ^e	17.49 ± 1.28 ^{de}	58.43 ± 2.72 ^f	64.35 ± 1.49 ^e

The values of each parameter labeled by different letters indicate significant differences assessed by Duncan's test after performing three-way ANOVA (P<0.05)

Table S2. Physiological and water status of date palm plants grown in the absence (0 mM NaCl) and presence (240 mM NaCl) of salt stress with the application of compost and AMF alone or in combination after 10 and 14 months of cultivation.

NaCl Level	Treatments	10 Months Of Cultivation				14 Months of Cultivation			
		g_s	LWP	RWC	F_v/F_m	g_s	LWP	RWC	F_v/F_m
		($\text{mmol m}^{-2} \text{s}^{-1}$)	(Bar)	(%)		($\text{mmol m}^{-2} \text{s}^{-1}$)	(Bar)	(%)	
0 mM	Control	17.63 ± 1.66^g	-23.70 ± 0.98^g	73.72 ± 1.35^b	0.47 ± 0.03^f	24.60 ± 1.22^{ef}	-24.64 ± 0.54^g	71.02 ± 1.25^b	0.55 ± 0.02^e
	Compost	26.50 ± 1.71^{de}	-16.28 ± 3.42^{cd}	80.31 ± 3.22^a	0.77 ± 0.02^{ab}	44.50 ± 2.11^c	-17.27 ± 2.05^{de}	75.15 ± 0.39^b	0.77 ± 0.01^{ab}
	AMF	45.77 ± 4.31^c	-15.96 ± 1.44^{cd}	82.81 ± 1.78^a	0.78 ± 0.03^{ab}	61.63 ± 1.15^a	-14.85 ± 1.75^{cd}	83.51 ± 4.12^a	0.79 ± 0.01^a
	Compost+AMF	53.43 ± 2.80^b	-11.68 ± 1.59^{ab}	80.84 ± 2.12^a	0.77 ± 0.01^{ab}	50.60 ± 0.69^b	-10.46 ± 1.30^a	73.89 ± 1.12^b	0.77 ± 0.01^{ab}
240 mM	Control	10.87 ± 1.72^i	-31.47 ± 2.81^h	53.03 ± 0.76^e	0.39 ± 0.01^h	14.27 ± 0.85^h	-29.84 ± 2.51^h	52.71 ± 1.36^e	0.41 ± 0.03^g
	Compost	18.10 ± 1.93^{gi}	-24.50 ± 0.89^g	61.74 ± 3.72^{cd}	0.72 ± 0.01^d	22.2 ± 1.44^f	-20.61 ± 0.50^f	58.55 ± 2.33^d	0.74 ± 0.01^{cd}
	AMF	23.00 ± 1.20^f	-21.97 ± 1.06^{fg}	65.92 ± 1.14^c	0.73 ± 0.01^d	26.53 ± 0.60^{de}	-19.61 ± 0.75^{ef}	63.31 ± 1.01^c	0.78 ± 0.01^{ab}
	Compost+AMF	26.67 ± 1.72^{de}	-15.30 ± 0.66^{cd}	61.83 ± 2.69^{cd}	0.73 ± 0.01^{cd}	29.57 ± 1.29^d	-14.07 ± 0.77^{bc}	57.83 ± 4.25^d	0.76 ± 0.01^{bc}

g_s : Stomatal conductance, LWP: Leaf water potential, RWC: Leaf relative water content and F_v/F_m : photosystem II efficiency. The values of each parameter labeled by different letters indicate significant differences assessed by Duncan's test after performing three-way ANOVA ($P < 0.05$)

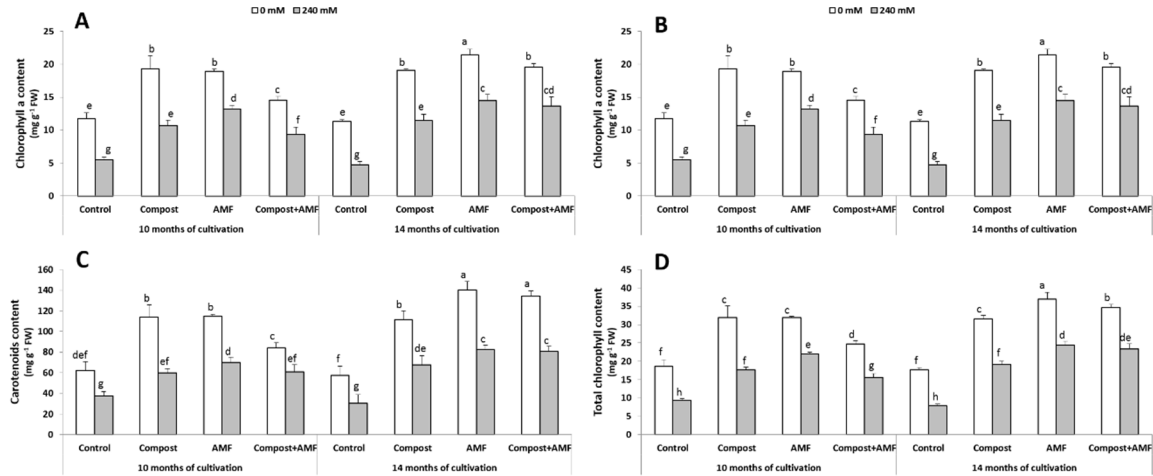


Figure S1. Photosynthetic pigment content (chlorophyll a (A), chlorophyll b (B), carotenoids (C) and total chlorophyll (D)) of mycorrhization of date palm plants grown in the absence (0 mM NaCl) and presence (240 mM NaCl) of salt stress with the application of compost and AMF alone or in combination after 10 and 14 months of cultivation. The bars labeled by different letters indicate significant differences assessed by Duncan's test after performing three-way ANOVA ($P < 0.05$).

Table S3. Proline and soluble sugars content in shoot and root of date palm plants grown in the absence and presence of salt stress with the application of compost and AMF alone or in combination after 10 and 14 months of cultivation.

NaCl Level	Treatments	10 Months of Cultivation				14 Months of Cultivation			
		Shoot		Root		Shoot		Root	
		Proline ($\mu\text{mol g}^{-1}$ FW)	Soluble Sugars ($\mu\text{g mg}^{-1}$ FW)	Proline ($\mu\text{mol g}^{-1}$ FW)	Soluble Sugars ($\mu\text{g mg}^{-1}$ FW)	Proline ($\mu\text{mol g}^{-1}$ FW)	Soluble Sugars ($\mu\text{g mg}^{-1}$ FW)	Proline ($\mu\text{mol g}^{-1}$ FW)	Soluble Sugars ($\mu\text{g mg}^{-1}$ FW)
0 mM	Control	11.61 \pm 0.82 ^h	386.31 \pm 15.15 ^h	34.53 \pm 4.02 ^j	78.85 \pm 6.65 ^{ij}	13.27 \pm 1.33 ^{gh}	383.31 \pm 25.01 ^h	37.19 \pm 3.45 ^j	75.52 \pm 4.29 ^j
	Compost	13.08 \pm 0.41 ^{gh}	443.61 \pm 33.47 ^g	51.27 \pm 4.43 ^{fg}	92.73 \pm 3.38 ^{ghi}	14.42 \pm 1.23 ^{efg}	456.53 \pm 30.22 ^{fg}	49.27 \pm 1.32 ^{gh}	88.54 \pm 2.76 ^{hij}
	AMF	16.21 \pm 1.95 ^{de}	555.33 \pm 11.87 ^c	53.98 \pm 1.70 ^f	138.54 \pm 17.82 ^{cd}	15.54 \pm 0.84 ^{def}	516.61 \pm 23.61 ^{cde}	48.98 \pm 1.97 ^{gh}	140.10 \pm 4.18 ^{cd}
	Compost+AMF	13.53 \pm 1.56 ^{fg}	568.97 \pm 1.75 ^{bc}	44.13 \pm 3.15 ⁱ	127.51 \pm 4.61 ^{de}	12.53 \pm 0.47 ^{gh}	497.97 \pm 30.25 ^{def}	45.80 \pm 1.90 ^{hi}	130.84 \pm 9.50 ^{de}
240 mM	Control	19.13 \pm 1.14 ^c	435.89 \pm 33.71 ^g	65.19 \pm 3.65 ^{de}	96.75 \pm 3.41 ^{gh}	17.46 \pm 0.56 ^{cd}	467.01 \pm 29.79 ^{efg}	61.85 \pm 2.15 ^e	105.38 \pm 11.55 ^{fg}
	Compost	23.35 \pm 0.85 ^b	563.30 \pm 43.87 ^c	79.25 \pm 1.30 ^{ab}	118.22 \pm 1.74 ^{ef}	22.23 \pm 0.95 ^b	536.79 \pm 23.62 ^{cd}	69.25 \pm 1.30 ^{cd}	152.23 \pm 8.62 ^{bc}

AMF	26.79 ± 1.94 ^a	656.73 ± 14.77 ^a	81.99 ± 1.81 ^a	182.46 ± 10.89 ^a	21.45 ± 1.38 ^b	616.61 ± 23.61 ^{ab}	70.33 ± 1.46 ^c	190.10 ± 12.15 ^a
Compost+AMF	23.27 ± 0.88 ^b	649.62 ± 45.15 ^a	75.85 ± 3.09 ^b	165.83 ± 3.42 ^b	21.61 ± 0.89 ^b	858.97 ± 38.80 ^a	64.52 ± 0.79 ^e	188.54 ± 2.76 ^a

The values of each parameter labeled by different letters indicate significant differences assessed by Duncan's test after performing three-way ANOVA (P<0.05)

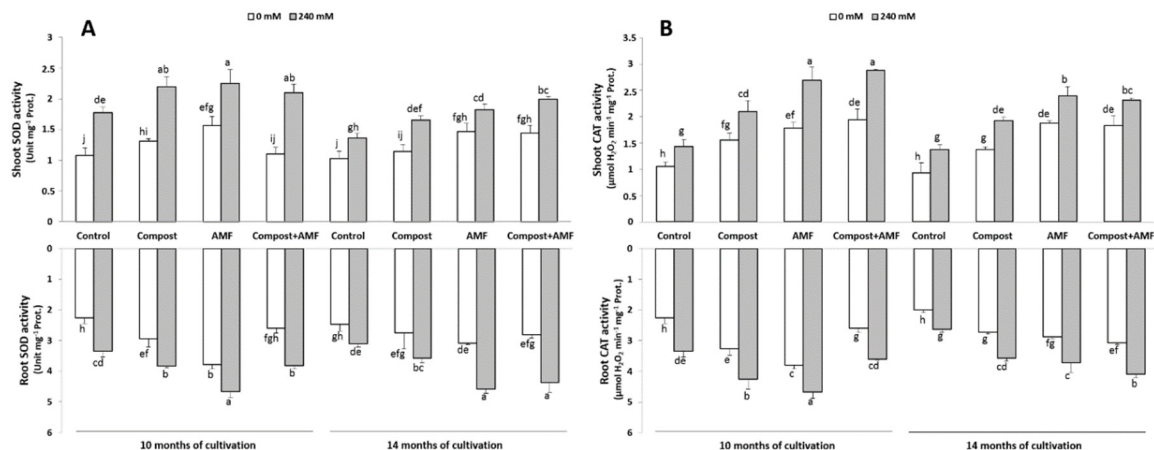


Figure S2. SOD (A) and CAT (B) antioxidant enzyme activity in the shoot and the root of mycorrhization of date palm plants grown in the absence (0 mM NaCl) and presence (240 mM NaCl) of salt stress with the application of compost and AMF alone or in combination after 10 and 14 months of cultivation. The bars labeled by different letters indicate significant differences assessed by Duncan's test after performing three-way ANOVA ($P < 0.05$).

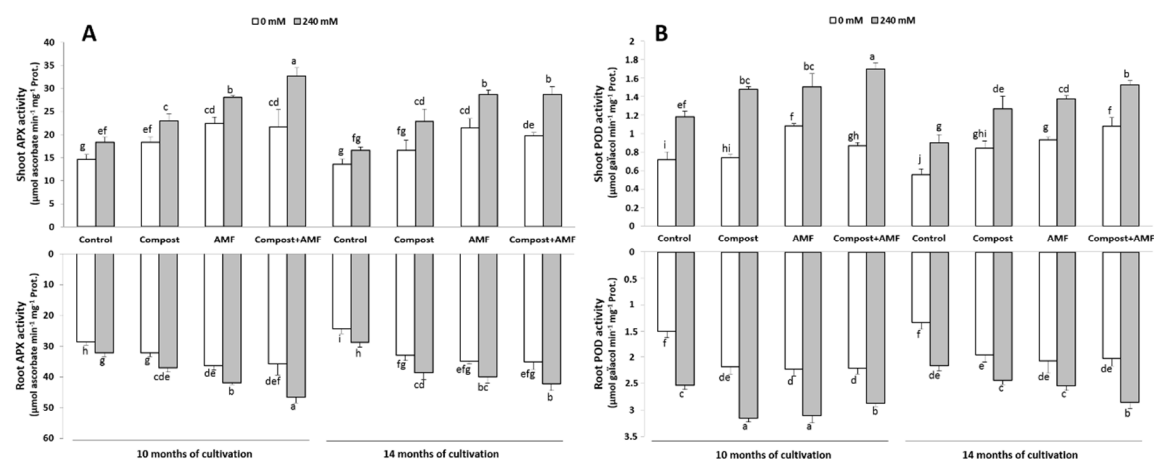


Figure S3. APX (A) and POD (B) antioxidant enzyme activity in the shoot and the root of mycorrhization of date palm plants grown in the absence (0 mM NaCl) and presence (240 mM NaCl) of salt stress with the application of compost and AMF alone or in combination after 10 and 14 months of cultivation. The bars labeled by different letters indicate significant differences assessed by Duncan's test after performing three-way ANOVA ($P < 0.05$).