





البحث رقم (4)		
Title:	Investigating the phenotypic plasticity of the invasive weed <i>Trianthema portulacastrum L</i> .	
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ازية	در اسة تكيفية النمط الظاهري لعشبة Trianthema portulacstrum L الغ	عنوان البحث:
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Background	Englísh Abstract	
enables invasive is one of the mo <u>Results</u> Phenotypic plas germination, veg seed micromorp cluster analysis homogeneous g conducted betw calculated and photosynthetic p	ticity is frequently highlighted as a key factor in plant invasive species to adapt to diverse, complicated habitats. <i>Trianthem</i> st common aggressive species that threaten different crops ar sticity in <i>T. portulacastrum</i> was investigated by compa- getative macromorphology, photosynthetic pigments, stomat hological traits of 35 samples collected from 35 different lo and principal component analysis (PCA) were used to class roups based on the measured traits. Pairwise statistical of the three resulting groups. The phenotypic plasticity compared among different groups of characters. Resu- bigments and macromorphological characteristics had the high norphology, and then stomatal complex traits, while germin	a portulacastrum round the world. uring variation in al complexes, and ocalities. One-way ssify samples into comparisons were y index (PI) was ults showed that ghest PI, followed

We propose that soil moisture, salinity, and temperature are the most determinative and explanative variables of the variation between the three classified groups. We strongly believe that the phenotypic plasticity of *T. portulacastrum* will support species abundance and spread even under expected changes in climatic conditions, in contrast to the vulnerable traditional crops.