

Soil texture			Elements						pH	EC	OM	TN	FC
(%)			(mg kg ⁻¹)							(dS m ⁻¹)	%	%	%
Sand	Silt	clay	K	P	Fe	Mn	Cu	Zn					
25.60	63.40	11.00	345.05	10.49	1.40	3.20	0.72	3.00	7.98	0.64	0.71	0.04	16.78

Table 1

Physical and chemical properties of the soil

Table 2

Effect of water deficit stress and PGPB symbiosis on seed physical trait in *Camelina sativa*. (D0: 100%FC, D1: 75%FC, D2: 50% FC, B0: Non inoculated, B1: inoculated)

	1000-Weight seed (g)	Seed number per silique	Seed number per plant	Silique number per plant	Silique length(mm)	Branch's number	Plant length (cm)
B0D0	0.85±0.03 b	10.7±0.1ab	496±0.1 bc	480 ± 0.1	8.86±0.09a	7.3±0.5b	86.32±1.0ab
B0D1	0.98 ±0.06 ab	10.6±0.1ab	469±0.1 dc	46±0.03 bc	8.56±0.05ab	7±0.0b	88.33±0.5a
B0D2	1.12±0.05a	9.7±0.06b	413±0.2 d	42±0.01 c	8.65±0.04ab	7.3±0.0b	84.0±0.5ab
B1D0	0.96±0.01ab	11.8±0.06a	637±0.1 a	53±0.00 5a	8.71±0.04a	8±0.0b	92.66±0.4a
B1D1	0.95±0.1a	11.5±0.5a	570±0.3 ab	49±0.02 ab	8.59±0.07ab	7±0.0b	89.66±1.1a
B1D2	1.19±0.1a	10.8±0.5ab	519±0.3 bc	47b±0.1 c	8.07±0.3b	14±0.5a	69.66±0.6b

The values presented are mean ±SE from three replicates of each treatment. Different letters indicate significant differences at P≤0.05

elements	B0D0	B0D1	B0D2	B1D0	B1D1	B1D2
C	56.88±0.96a	54.54±0.15bc	55.53±0.35abc	56.05±1.19ab	54.19±0.23c	54.95±0.25bc
N	5.84±0.45c	6.01±0.13c	6.78±0.22b	5.91±0.0.11c	7.46±0.24a	6.02±0.10c
H	0.304±0.1a	0.282±0.04a	0.247±0.02a	0.302±0.02a	0.270±0.003a	0.274±0.002a
S	0.047±0.01a	0.037±0.009b	0.029±0.005bc	0.0260±0.008	0.004±0.01d	0.016±0.002e
p	686.5±001e	1201.3±0.03d	1247.7±0.21d	1503±0.03b	1376.3±0.1c	1629±0.04a
Fe	26.44±0.01f	50.55±0.005c	46.34±0.05e	54.48±0.03b	63.51±0.01a	49.53±0.2d
Zn	38.47±0.05f	47.49±0.04d	44.47±0.006e	51.79±0.005b	57.38±0.002a	48.55±0.04c
Mn	7.75±0.2d	13.12±0.03c	13.62±0.003b	13.87±0.1a	13.75±0.03ab	13.13±0.02c
C:N	9.86a	9.05b	8.18c	9.02b	7.28d	9.02b
N:S	4.45b	4.46±b	5.16±b	6.98±b	37.26±a	10.90±b

Table 3

Effect water deficit stress and PGPB symbiosis on content of carbon (C), nitrogen (N), hydrogen (H), sulphur (S), phosphorus (P), iron (Fe), zink (Zn), manganese (Mn) in *Camelina sativa*. . (D0: 100%FC, D1: 75 %FC, D2: 50% FC, B0: Non inoculated, B1: inoculated)

The values presented are mean ±SE from three replicates of each treatment. Different letters indicate significant differences at $P \leq 0.05$

Table 4

Effect water deficit stress and PGPB symbiosis on antioxidant capacity by DPPH, total phenolic content, total soluble carbohydrate, protein content and oil content. (D0: 100%FC, D1: 75%FC, D2: 50% FC, B0: Non inoculated, B1: inoculated)

Antioxidant capacity	B0D0	B0D1	B0D2	B1D0	B1D1	B1D2
DPPH ($\mu\text{mol TE/g DW}$)	8.38 \pm 0.02 c	9.36 \pm 0.02 bc	16.68 \pm 0.004a b	8.19 \pm 0.03c	15.37 \pm 0.001a bc	20.54 \pm 0.04a
TPC (mg GAE/g DW)	10.46 \pm 0.1 d	12.29 \pm 0.2 3c	13.79 \pm 0.12b	10.50 \pm 0.2 d	14.04 \pm 0.1ab	14.34 \pm 0.13a
TSC (mg Glu/ DW)	33.65 \pm 0.2 c	37.22 \pm 0.1 c	66.03 \pm 0.51a	31.3 \pm 0.01c	43.36 \pm 0.02bc	58.64 \pm 0.12a b
Protein%	20.44 \pm 0.2 f	24.45 \pm 0.0 4c	25.7 \pm 0.13b	21.72 \pm 0.001 e	23.14 \pm 0.2d	27.16 \pm 0.1a
Oil%	31.94 \pm 0.5 1a	28.93 \pm 0.1 4b	27.79 \pm 0.54cb	31.28 \pm 0.5a	28.9 \pm 0.35b	27.23 \pm 0.05c

The values presented are mean \pm SE from three replicates of each treatment. Different letters indicate significant differences at $P \leq 0.05$

Table 5

Effect of water deficit stress and PGPB symbiosis on fatty acid profile in *Camelina sativa*. C16:0 palmitic acid, C18:0 stearic acid, C18:1 oleic acid, C18:2 linoleic acid, C18:3 linolenic acid, C20:1 eicosanoid acid, C22:1 erucic acid, SFA saturated fatty acid, MUFA monounsaturated fatty acid, PUFA polyunsaturated fatty acid, (D0: 100%FC, D1: 75%FC, D2: 50% FC, B0: Non inoculated, B1: inoculated)

	B0D0	B0D1	B0D2	B1D0	B1D1	B1D2
C16:0	9.5 ±1.01c	9.6 ±0.4b	9.9 ±0.3a	7.8 ±0.2f	9.1±1.03d	8.1 ±1.1e
C18:0	3.5±0.1b	3.5±0.4c	3.6±1.2a	2.8±0.9f	3.4±0.6d	3.1±1.5e
C18:1	3.17±1.0a	2.76±1.3b	1.69±1.1d	1.83±0.9c	3.13±0.2a	1.81±.6c
C18:2	22.6±0.3c	23.2±0.5a	22.8±0.5b	18.53±0.3f	22.3±0.4d	20.12±0.3e
C18:3	37.5±0.7e	40.8±0.4c	37.9±0.5d	33.4±0.3f	41.3±0.1b	43.4±0.2a
C20:1	14.1±0.9b	13.1±0.5c	12.5±0.5d	11.3±01.04e	14.3±0.5a	10.99±0.2f
C22:1	2.6±0.4ab	2.1±0.5bc	2.1±0.4bc	3.03±0.5a	2.1±0.3bc	1.64±0.7c
SFA	15.2±0.1b	15.3±0.09b	16.1±0.1a	12.8±0.1d	14.7±0.3c	12.9±0.5d
MUFA	20.05±0.6b	18.08±1.7c	16.36±1.6d	30.38±0.6a	19.69±1.5b	15.59±1.3d
PUFA	61.05±0.08bc	58.19±2.1dc	61.1±6.17bc	55.12±4.3d	65.66±0.2a	64.13±0.5ab

The values presented are mean ±SE from three replicates of each treatment. Different letters indicate significant differences at $P \leq 0.05$

