

Table (4): Effect of foliar application with some natural substances on vegetative growth characters of sugar pea in the two seasons of 2022/2023 and 2023/2024 at 50 days after sowing

Treatments	Plant height (cm)		No of branches/ plant		No of leaves/plant	
	2022/2023	2023/2024	2022/2023	2023/2024	2022/2023	2023/2024
Control	60.10 c	58.26 b	1.47 e	1.62 f	22.78 e	26.20 c
CA 100 ppm	63.83 cb	71.20 ab	2.12 de	2.58 de	28.38 dc	28.90 cb
CA 200 ppm	69.33 a	78.33 a	3.14 ab	3.62 ab	31.39 b	36.53 a
AVE 20 ml/l	62.23 c	65.46 ab	2.01 de	2.36 fe	25.16 e	28.00 c
AVE 40 ml/l	68.95 a	77.53 a	2.93 cab	3.58 cab	30.62 cb	36.25 a
Borpota 1 ml/l	63.75 cb	68.63 ab	2.04 de	2.41 e	27.93 d	28.43 cb
Borpota 2 ml/l	67.76 ab	75.23 ab	2.58 cdb	3.20 cdb	29.69 dcb	34.76 ab
ASA 100 ppm	64.33 cb	74.00 ab	2.45 cd	2.83 cde	29.52 dcb	30.76 cab
ASA 200 ppm	71.55 a	80.00 a	3.14 ab	3.95 ab	31.88 ab	36.53 a
SA 100 ppm	63.83 cb	73.16 ab	2.13 de	2.60 de	28.71 dc	29.53 cb
SA 200 ppm	71.80 a	80.43 a	3.29 a	4.25 a	34.10 a	37.20 a
LSD (0.05)	4.5273	17.276	0.6675	0.7554	2.565	6.6434

*Means followed by the same letter within a column are not significantly different at 0.05 level of probability according to Duncan multiple range test.

CA (Citric acid), AVE (aloe vera leaf extract), ASA (Ascorbic acid), SA (salicylic acid).

Table (5): Effect of foliar application with some natural substances on fresh and dry weight/plant of sugar pea in the two seasons of 2022/2023 and 2023/2024 at 50 days after sowing

Treatments	Plant fresh weight (g)		Plant dry weight (g)	
	2022/2023	2023/2024	2022/2023	2023/2024
Control	86.700 g	99.250 d	16.197 e	16.920 d
CA 100 ppm	118.103 ef	118.900 c	22.107 dc	23.983 cb
CA 200 ppm	133.623 c	154.667 ab	26.420 b	30.660 ab
AVE 20 ml/l	110.450 f	102.000 d	19.597 de	21.600 cd
AVE 40 ml/l	128.403 cd	150.000 b	24.627 bc	29.820 ab
Borpota 1 ml/l	117.187 ef	102.833 d	20.157 d	21.923 cd
Borpota 2 ml/l	127.987 cd	148.333 b	24.520 bc	29.757 ab
ASA 100 ppm	123.063 ed	146.583 b	22.773 dc	29.110 ab
ASA 200 ppm	149.277 b	155.750 ab	27.245 b	34.480 a
SA 100 ppm	123.063 ed	141.500 b	22.463 dc	25.903 cb
SA 200 ppm	158.350 a	166.400 a	30.840 a	34.837 a
LSD (0.05)	8.3051	15.052	3.5829	6.9264

Means followed by the same letter within a column are not significantly different at 0.05 level of probability according to Duncan multiple range test.
CA (Citric acid), AVE (aloe vera leaf extract), ASA (Ascorbic acid),
SA (salicylic acid)

Table (6): Effect of foliar application with some natural substances on pod yield and its components of sugar pea in the two seasons of 2022/2023 and 2023/2024 at maturity stage

Treatments	Average pod weight (g)		Pod yield/ plant (g)		Total pod yield (ton/fed.)	
	2022/2023	2023/2024	2022/2023	2023/2024	2022/2023	2023/2024
Control	4.98 e	3.64 f	125.52 e	133.20 g	7.39 e	6.85 f
CA 100 ppm	5.60 cde	4.80 de	145.27 cd	167.48 fe	8.59 cd	8.40 de
CA 200 ppm	6.63 ab	5.85 cab	190.80 b	206.73 b	11.28 b	9.59 c
AVE20 ml/l	5.33 de	3.74 f	137.82 d	137.85 g	8.15 d	7.12 f
AVE40 ml/l	6.49 ab	5.62 cdb	154.58 c	194.35 c	9.14 c	8.75 d
Borpota 1 ml/l	5.40 de	4.33 fe	143.64 cd	159.96 f	8.49 cd	8.26 e
Borpota 2 ml/l	6.33 cab	5.49 cdb	146.38 cd	177.93 d	8.65 cd	8.74 d
ASA 100 ppm	6.09 cdb	5.23 cdeb	145.70 cd	171.91 de	8.61 cd	8.47 de
ASA 200 ppm	7.07 a	6.80 a	205.36 a	232.46 a	12.15 a	11.85 a
SA 100 ppm	6.04 cdb	4.91 cde	145.55 cd	171.12 de	8.60 cd	8.42 de
SA 200 ppm	7.04 a	6.14 ab	202.28 a	213.52 b	11.96 a	10.91 b
LSD (0.05)	0.8254	0.9569	11.236	8.4562	0.6665	0.3746

*Means followed by the same letter within a column are not significantly different at 0.05 level of probability according to Duncan multiple range test. CA (Citric acid), AVE (aloe vera leaf extract), ASA (Ascorbic acid), SA (salicylic acid)

Table (7): Effect of foliar application with some natural substances on the physical pod characters of sugar pea in the two seasons of 2022/2023 and 2023/2024 at maturity stage

Treatments	No of pods/ Plant		Pod length (cm)		Pod diameter (mm)		Pod thickness (mm)	
	2022/2023	2023/2024	2022/2023	2023/2024	2022/2023	2023/2024	2022/2023	2023/2024
Control	21.66 e	25.53 g	6.63 e	6.25 c	11.73 d	13.16 c	6.55 g	6.76 f
CA 100 ppm	28.00 d	32.91 ef	7.06 cde	6.73 cab	13.23 cd	14.16 cab	7.79 edf	8.20 de
CA 200 ppm	51.30 a	54.66 ab	7.81 ab	7.19 a	14.68 cab	15.06 a	8.55 bc	9.40 b
AVE20 ml/l	26.16 de	30.00 gf	6.72 e	6.37 cb	12.08 d	13.26 cb	7.18 gf	7.46 ef
AVE40 ml/l	45.81 b	42.83 cd	7.69 ab	7.11 a	14.63 cab	15.06 a	8.36 dc	9.26 bc
Borpota 1 ml/l	27.54 d	32.58 ef	6.95 de	6.71 cab	13.12 cd	13.40 cb	7.34 ef	7.56 ef
Borpota 2 ml/l	41.57 bc	44.50 c	7.52 cab	7.04 a	14.39 cab	14.60 ab	8.34 dc	8.80 dbc
ASA 100 ppm	39.45 c	42.00 cd	7.51 cab	6.96 ab	13.70 cb	14.33 cab	8.03 edc	8.33 dec
ASA 200 ppm	54.11 a	60.16 a	8.03 a	7.27 a	15.46 a	15.30 a	10.12 a	11.03 a
SA 100 ppm	37.91 c	37.16 ed	7.30 cdb	6.74 cab	14.25 cab	14.46 cab	8.22 dc	8.80 dbc
SA 200 ppm	52.31 a	54.66 ab	7.89 a	7.22 a	15.13 ab	15.16 a	9.06 b	9.50 b
LSD (0.05)	4.8287	6.7223	0.5208	0.6439	1.5971	1.3369	0.6987	0.9719

*Means followed by the same letter within a column are not significantly different at 0.05 level of probability according to Duncan multiple range test.
CA (Citric acid), AVE (aloe vera leaf extract), ASA (Ascorbic acid), SA (salicylic acid).