

Table 2: Effect of different concentrations of potassium and ethephon on vegetative growth characteristics of squash plants during the two growing seasons of 2013 and 2014

Treatment	Vine length (cm)		Vine diameter (mm)		Leaves number per plant		Fresh weight/plant (g)		Dry weight/plant (g)	
	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014
Control	70.50	66.60	2.25	1.90	23.10	17.66	518.75	430.80	85.97	67.28
1 K	87.33	82.06	2.34	2.10	32.33	22.06	874.96	570.25	122.89	79.54
2K	93.50	87.36	2.45	2.18	34.00	26.83	995.87	721.70	168.97	109.57
3K	84.00	80.71	2.53	2.25	30.33	26.16	746.48	500.48	128.63	85.25
150 E	83.10	76.50	2.30	2.07	25.00	20.66	653.80	477.45	105.44	76.47
250E	70.43	65.70	2.36	2.17	29.06	21.13	707.20	583.73	110.68	90.89
350E	60.13	50.66	2.40	2.27	26.23	19.07	673.51	479.25	113.50	80.26
1 K+150 E	80.73	74.86	2.30	2.16	26.91	20.43	837.90	627.22	125.62	95.28
1 K+250 E	79.03	72.33	2.39	2.34	30.83	23.50	881.60	664.50	143.35	103.35
1 K+350 E	73.00	69.00	2.53	2.37	29.50	22.61	764.10	579.83	119.19	90.44
2 K+150 E	87.06	78.33	2.31	2.25	32.00	24.30	891.33	741.43	138.61	115.47
2 K+250 E	78.70	75.56	2.37	2.35	36.33	28.16	1147.10	877.70	202.58	154.21
2 K+350 E	73.50	70.42	2.55	2.38	26.76	23.00	911.20	772.46	140.13	118.77
3 K+150 E	81.80	71.50	2.31	2.28	31.05	22.83	751.53	573.50	123.62	93.70
3 K+250 E	77.73	70.40	2.44	2.37	33.15	26.33	872.00	765.06	138.64	123.68
3 K+350 E	75.33	65.16	2.57	2.40	30.02	24.51	739.73	562.20	113.49	85.46
L.S.D 5%	3.589	2.619	0.149	0.079	2.854	2.368	54.049	36.002	6.844	4.514

K= Potassium (ml K₂O l⁻¹)

E=Ethephon (ppm)

Table 3: Effect of different concentrations of potassium and ethephon on floral traits of squash plants during the two growing seasons of 2013 and 2014

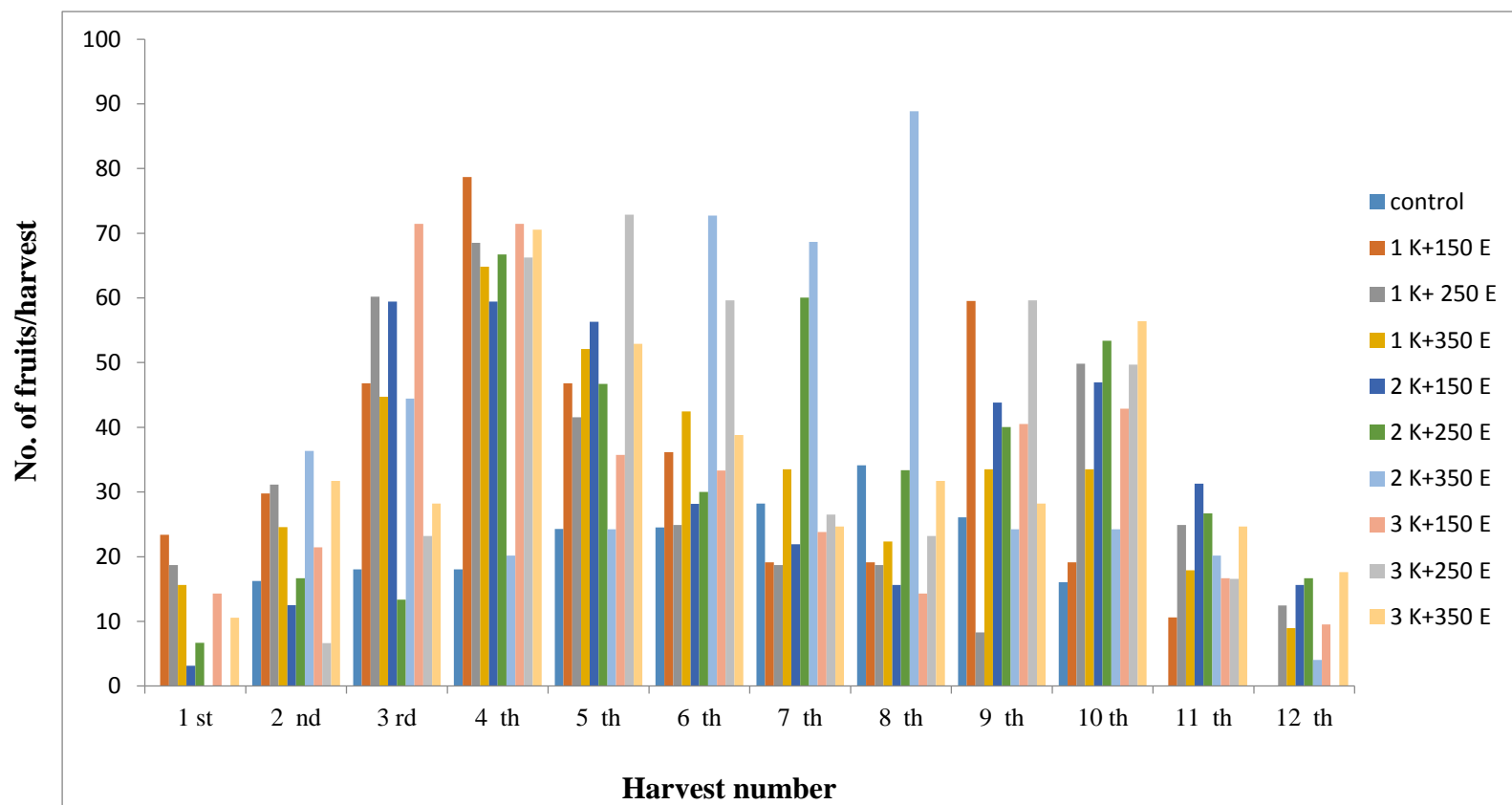
Treatment	No. of male flowers/plant		No. of female flowers/plant		sex ratio (%)		femaleness (%)	
	2013	2014	2013	2014	2013	2014	2013	2014
Control	9.04	9.01	7.04	7.04	1.276	1.273	43.776	43.866
1 K	8.53	8.46	9.26	9.00	0.916	0.936	52.036	51.550
2K	7.39	7.26	9.86	9.53	0.743	0.760	57.150	56.740
3K	7.53	7.31	9.72	9.67	0.770	0.753	56.333	56.940
150 E	7.21	7.05	10.48	10.32	0.683	0.676	59.226	59.420
250E	7.04	6.96	10.83	10.72	0.646	0.646	60.600	60.621
350E	6.99	6.79	11.01	10.97	0.630	0.616	61.120	61.746
1 K+150 E	7.63	7.52	10.54	10.47	0.716	0.713	58.000	58.866
1 K+250 E	7.13	7.10	10.73	10.64	0.660	0.660	60.066	59.953
1 K+350 E	7.00	6.90	11.28	11.15	0.613	0.613	61.696	61.770
2 K+150 E	7.14	7.02	10.85	10.70	0.656	0.650	60.293	60.353
2 K+250 E	6.82	6.73	11.54	11.41	0.586	0.583	63.453	62.886
2 K+350 E	6.46	6.31	12.02	11.87	0.530	0.526	65.020	65.270
3 K+150 E	7.20	7.00	11.00	10.90	0.650	0.633	60.433	61.016
3 K+250 E	6.93	6.81	11.36	11.31	0.603	0.596	61.546	62.386
3 K+350 E	6.81	6.49	11.86	11.71	0.570	0.546	63.510	64.353
L.S.D 5%	0.138	0.163	0.223	0.182	0.024	0.015	0.925	0.708

K= Potassium (ml K₂O l⁻¹) E=Ethephon (ppm)

Table 4: Effect of different concentrations of potassium and ethephon on yield and its components of squash plants during the two growing of seasons 2013 and 2014

Treatment	No. of fruits/plant		Fruit fresh weight (g)		Early yield (kg/plot)		Total yield (kg/plot)	
	2013	2014	2013	2014	2013	2014	2013	2014
Control	6.76	5.35	63.20	65.70	1.09	1.11	17.10	14.07
1 K	7.34	7.19	66.77	67.95	1.42	1.35	19.61	19.55
2K	8.01	7.54	68.66	69.56	1.92	1.69	22.23	20.99
3K	7.76	7.87	67.62	68.68	1.86	1.72	21.31	21.95
150 E	9.75	8.63	64.36	66.11	2.03	2.04	24.37	22.22
250E	9.95	8.82	63.85	65.35	3.12	3.08	25.41	23.07
350E	10.00	9.01	60.89	61.62	2.99	2.74	25.10	22.82
1 K+150 E	9.87	8.82	64.42	66.71	4.66	4.50	24.67	22.21
1 K+250 E	10.01	8.89	65.11	66.84	5.83	5.51	25.43	23.54
1 K+350 E	10.26	9.17	60.10	62.45	5.27	5.17	26.65	24.42
2 K+150 E	10.11	9.00	60.96	61.64	5.60	5.11	24.67	22.92
2 K+250 E	10.51	9.31	69.32	69.73	6.80	6.33	27.38	24.90
2 K+350 E	10.98	9.91	62.95	65.76	6.65	6.10	27.64	26.08
3 K+150 E	10.20	9.14	63.93	64.67	5.35	5.03	26.08	23.65
3 K+250 E	10.34	9.25	64.31	67.63	6.10	6.03	26.38	25.02
3 K+350 E	10.36	9.62	63.80	66.86	5.94	5.86	27.10	25.74
L.S.D 5%	0.236	0.158	2.416	0.302	0.169	0.098	1.010	0.980

K= Potassium (ml K₂O l⁻¹) E=Ethephon (ppm)



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Figure (1). Effect of different concentrations of Potassium and Ethephon on the cyclic pattern of producing fruits (as means of fruits number for each harvest) during the two growing seasons of 2013 and 2014.