

Table 2. Effect of squash cultivars and foliar spray with yeast extract and potassium silicate on plant floral characters during 2015/2016 and 2016/2017 seasons

Characters Treatments Cultivars foliar spray	Number of male flowers plant ⁻¹		Number of female flowers plant ⁻¹		Sex ratio		Femaleness (%)	
	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017
Eskandarany	6.19	6.37	9.66	9.64	0.64	0.66	60.73	59.87
Revera	6.57	6.89	11.22	10.82	0.59	0.63	62.00	61.07
Azyad	6.59	6.45	11.42	10.96	0.57	0.59	63.13	62.13
LSD at 5%	0.23	0.15	0.14	0.12	0.04	0.03	0.42	0.45
Control	6.05	6.07	9.24	9.00	0.65	0.67	59.89	59.22
Yeast 1	6.70	6.56	10.48	10.05	0.63	0.65	60.78	59.89
Yeast 2	6.56	6.83	11.43	11.26	0.57	0.61	63.22	62.00
Potassium silicate 1	6.47	6.59	10.78	10.50	0.60	0.63	61.67	60.89
Potassium silicate 2	6.40	6.78	11.90	11.57	0.53	0.58	64.22	63.11
LSD at 5%	0.29	0.19	0.18	0.15	0.05	0.04	0.54	0.58

Control = Tap water, Yeast 1= Yeast extract at 3gl⁻¹, Yeast 2= Yeast extract at 6gl⁻¹, Potassium silicate 1= Potassium silicate at 2gl⁻¹, Potassium silicate 2= Potassium silicate at 4gl⁻¹

Table 3. Effect of the interaction between squash cultivars and foliar spray with yeast extract and potassium silicate on plant floral characters during 2015/2016 and 2016/2017 seasons

Characters Treatments Cultivars foliar spray		Number of male flowers plant ⁻¹		Number of female flowers plant ⁻¹		Sex ratio		Femaleness (%)	
		2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017
Eskandarany	Control	5.72	5.95	8.30	8.50	0.68	0.70	59.00	58.33
	Yeast 1	6.11	6.32	9.25	9.30	0.66	0.67	60.00	58.67
	Yeast 2	6.20	6.65	10.00	10.20	0.62	0.65	62.00	61.00
	Potassium silicate1	6.37	6.20	9.85	9.40	0.64	0.66	60.33	59.67
	Potassium silicate2	6.55	6.76	10.91	10.50	0.60	0.64	62.33	61.67
Revera	Control	6.31	6.23	9.70	9.10	0.65	0.68	59.67	59.33
	Yeast 1	7.06	7.16	11.20	10.85	0.63	0.65	61.00	60.00
	Yeast 2	6.71	7.00	12.00	11.75	0.55	0.59	63.33	62.00
	Potassium silicate1	6.43	6.93	11.10	11.00	0.57	0.63	61.67	61.00
	Potassium silicate2	6.31	7.11	12.10	11.90	0.52	0.59	64.33	63.00
Azyad	Control	6.12	6.03	9.73	9.50	0.62	0.63	61.00	60.00
	Yeast 1	6.80	6.20	11.00	10.00	0.61	0.62	61.33	61.00
	Yeast 2	6.77	6.85	12.70	11.90	0.53	0.57	64.33	63.00
	Potassium silicate1	6.61	6.66	11.40	11.00	0.57	0.60	63.00	62.00
	Potassium silicate2	6.54	6.48	13.00	12.50	0.50	0.51	66.00	64.00
LSD at 5%		0.50	0.34	0.31	0.27	0.08	0.07	0.94	0.99

Control = Tap water , Yeast 1= Yeast extract at 3gl⁻¹ , Yeast 2= Yeast extract at 6gl⁻¹ , Potassium silicate 1= Potassium silicate at 2gl⁻¹
Potassium silicate 2= Potassium silicate at 4gl⁻¹

Table 4. Effect of squash cultivars and foliar spray with yeast extract and potassium silicate on fruit yield and its components during 2015/2016 and 2016/2017 seasons

Characters Treatments Cultivars foliar spray	Number of fruits plant-1		Fruit fresh weight (g)		Fruit dry matter (%)		Fruit yield plot-1 (kg)		Relative yield (%)	
	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017
Eskandarany	7.33	7.28	71.54	69.66	3.80	3.42	11.64	10.87	100	100
Revera	9.02	8.90	85.78	78.65	4.79	4.29	13.99	13.37	120	122
Azyad	9.42	9.06	99.19	89.76	5.10	4.61	14.98	14.35	128	132
LSD at 5%	0.11	0.39	2.00	2.15	0.20	0.19	0.41	0.44	-	-
Control	7.46	7.36	70.76	68.20	3.55	3.00	10.53	9.84	100	100
Yeast 1	8.05	7.86	80.80	79.80	4.55	3.54	12.99	12.44	123	126
Yeast 2	9.27	9.12	95.32	90.95	5.03	4.63	14.73	14.09	139	143
Potassium silicate1	8.56	8.20	89.50	81.7	4.38	4.07	13.98	13.16	132	133
Potassium silicate2	9.61	9.52	100.51	98.75	5.65	5.18	15.46	14.78	146	150
LSD at 5%	0.14	0.50	2.60	2.82	0.26	0.26	0.53	0.56	-	-

Control = Tap water , Yeast 1= Yeast extract at 3gl^{-1} , Yeast 2= Yeast extract at 6gl^{-1} , Potassium silicate 1= Potassium silicate at 2gl^{-1}
Potassium silicate 2= Potassium silicate at 4gl^{-1}

Table 5. Effect of the interaction between squash cultivars and foliar spray with yeast extract and potassium silicate on fruit yield and its components during 2015/2016 and 2016/2017 seasons

Characters Treatments Cultivar foliar spray		Number of fruits plant ¹		Fruit fresh weight (g)		Fruit dry matter (%)		Fruit yield plot ⁻¹ (kg)		Relative yield (%)	
		2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017	2015/2016	2016/2017
Eskandary	Control	6.15	6.20	65.83	62.73	3.02	2.66	6.62	8.95	100	100
	Yeast 1	7.00	7.03	70.50	65.51	3.44	2.87	10.74	10.77	111	120
	Yeast 2	8.00	8.10	81.65	70.95	4.21	3.86	12.97	11.57	134	129
	Potassium silicate 1	7.30	6.56	76.70	74.45	3.71	3.43	11.86	10.89	123	121
	Potassium silicate 2	8.22	8.50	80.9	79.41	4.61	4.27	13.02	12.17	135	135
Revera	Control	8.00	7.89	75.80	75.00	3.63	3.17	10.97	9.88	100	100
	Yeast 1	8.30	8.00	80.57	72.85	4.50	3.65	13.65	12.00	124	121
	Yeast 2	9.80	9.50	92.83	83.78	5.22	4.94	14.96	13.60	136	137
	Potassium silicate 1	9.00	9.03	85.21	75.60	4.67	4.22	14.14	12.59	128	127
	Potassium silicate 2	10.00	10.05	98.90	92.95	5.90	5.44	16.24	14.80	148	149
Azyad	Control	8.23	8.00	79.66	70.15	4.01	3.45	11.01	10.68	100	100
	Yeast 1	8.85	8.55	83.00	79.91	4.64	4.10	14.59	13.98	132	130
	Yeast 2	10.00	9.75	100.33	93.20	5.66	5.08	16.27	15.90	147	148
	Potassium silicate 1	9.40	9.00	90.50	82.95	4.90	4.55	15.92	15.00	144	140
	Potassium silicate 2	10.60	10.00	108.60	100.51	6.45	5.82	17.10	16.17	155	151
LSD at 5%		0.24	0.87	4.50	4.95	0.45	0.44	0.91	0.97	-	-

Control = Tap water , Yeast 1= Yeast extract at 3gl⁻¹ , Yeast 2= Yeast extract at 6gl⁻¹ , Potassium silicate 1= Potassium silicate at 2gl⁻¹
Potassium silicate 2= Potassium silicate at 4gl⁻¹

Table 6. Effect of cultivars and foliar spray with yeast extract and potassium silicate on the physical characters and chemical constituents of squash fruit during 2015/2016 and 2016/2017 seasons

Characters Treatments Cultivars foliar spray	Fruit physical characters		Fruit chemical constituents				
	Length (cm)	Diameter (cm)	Minerals content (%)			Protein (%)	Total Carbohydrates (%)
			N	P	K		
	2015/2016 season						
Eskandarany	11.00	2.71	1.44	0.234	2.23	8.98	17.95
Revera	12.34	2.92	1.65	0.262	2.38	10.28	18.84
Azyad	13.00	3.10	1.72	0.269	2.43	10.72	19.10
LSD at 5%	0.30	0.20	0.12	0.01	0.03	0.76	0.06
Control	11.2	2.59	1.34	0.221	2.15	8.35	16.82
Yeast 1	12.60	2.80	1.48	0.269	2.23	9.23	18.38
Yeast 2	13.00	3.12	1.73	0.285	2.37	10.83	18.55
Potassium silicate 1	12.85	2.98	1.63	0.255	2.46	10.14	19.42
Potassium silicate 2	13.30	3.15	1.83	0.244	2.53	11.43	20.19
LSD at 5%	0.42	0.15	0.16	0.01	0.04	0.98	0.03
	2016/2017 season						
Eskandarany	11.10	2.68	1.40	0.227	2.19	8.75	17.50
Revera	12.00	2.83	1.58	0.248	2.89	9.72	18.59
Azyad	13.10	2.95	1.67	0.256	2.34	10.43	18.93
LSD at 5%	0.29	0.10	0.08	0.01	0.03	0.42	0.04
Control	11.32	2.61	1.28	0.2088	2.11	7.99	16.72
Yeast 1	12.67	2.72	1.47	0.258	2.20	8.98	18.00
Yeast 2	13.00	3.00	1.66	0.274	2.28	10.39	18.32
Potassium silicate 1	12.75	2.90	1.57	0.246	2.36	9.75	19.20
Potassium silicate 2	13.50	3.18	1.77	0.231	2.43	11.06	19.88
LSD at 5%	0.30	0.17	0.10	0.01	0.03	0.54	0.04

Control = Tap water , Yeast 1= Yeast extract at 3gl⁻¹ , Yeast 2= Yeast extract at 6gl⁻¹ , Potassium silicate 1= Potassium silicate at 2gl⁻¹, Potassium silicate 2= Potassium silicate at 4gl⁻¹

Table 7. Effect of the interaction between cultivars and foliar spray with yeast extract and potassium silicate on the physical characters and chemical constituents of squash fruits during 2015/2016

Characters		Fruit physical characters			Fruit chemical constituents			
Treatments cultivars foliar spray		Length (cm)	Diameter (cm)	Minerals content (%)			Protein (%)	Total Carbohydrates (%)
				N	P	K		
Eskandarany		2015/2016 season						
	Control	10.89	2.50	1.23	0.210	2.08	7.68	16.77
	Yeast 1	11.32	2.63	1.36	0.245	2.11	8.50	18.22
	Yeast 2	12.55	2.80	1.55	0.260	2.25	9.78	18.55
	Potassium silicate 1	12.00	2.70	1.42	0.229	2.33	8.72	18.97
	Potassium silicate 2	12.70	2.83	1.63	0.225	2.40	10.25	19.73
Revera	Control	11.12	2.60	1.35	0.223	2.15	8.43	17.50
	Yeast 1	12.60	2.80	1.47	0.278	2.25	9.18	18.37
	Yeast 2	12.91	3.00	1.79	0.294	2.41	11.18	18.60
	Potassium silicate 1	12.75	2.89	1.72	0.265	2.50	10.75	19.55
	Potassium silicate 2	13.00	3.03	1.90	0.250	2.57	11.87	20.35
Azyad	Control	11.75	2.73	1.43	0.230	2.21	8.93	17.21
	Yeast 1	12.65	2.85	1.60	0.285	2.33	9.99	18.57
	Yeast 2	13.12	3.12	1.85	0.300	2.45	11.53	18.80
	Potassium silicate 1	12.93	3.00	1.75	0.270	2.55	10.97	19.76
	Potassium silicate 2	13.50	3.20	1.95	0.258	2.63	12.18	20.50
	LSD at 5%	0.63	0.22	0.27	0.02	0.72	1.70	0.06

Control = Tap water , Yeast 1= Yeast extract at 3gl^{-1} , Yeast 2= Yeast extract at 6gl^{-1} , Potassium silicate 1= Potassium silicate at 2gl^{-1} , Potassium silicate 2= Potassium silicate at 4gl^{-1}

Table 8. Effect of the interaction between cultivars and foliar spray with yeast extract and potassium silicate on the physical characters and chemical constituents of squash fruits during 2016/2017

Characters Treatments cultivars foliar spray		Fruit physical characters		Fruit chemical constituents				
		Length (cm)	Diameter (cm)	Minerals content (%)			Protein (%)	Total Carbohydrates (%)
				N	P	K		
Eskandarany				2016/2017 season				
	Control	10.60	2.51	1.17	0.200	2.05	7.31	16.00
	Yeast 1	11.25	2.60	1.28	0.240	2.15	7.99	18.14
	Yeast 2	12.00	2.70	1.55	0.251	2.20	9.68	18.38
	Potassium silicate 1	11.70	2.65	1.40	0.228	2.28	8.75	18.79
	Potassium silicate 2	12.15	2.78	1.60	0.216	2.31	9.99	19.61
Revera	Control	11.30	2.62	1.29	0.215	2.10	8.06	17.36
	Yeast 1	12.00	2.71	1.52	0.265	2.20	9.31	18.14
	Yeast 2	13.00	2.93	1.65	0.280	2.30	10.31	18.50
	Potassium silicate 1	12.54	2.75	1.62	0.250	2.38	9.60	19.26
	Potassium silicate 2	13.00	3.00	1.81	0.233	2.46	11.31	20.00
Azyad	Control	11.50	2.70	1.38	0.210	2.18	8.59	17.12
	Yeast 1	12.50	2.81	1.60	0.273	2.25	9.62	18.30
	Yeast 2	13.00	3.00	1.79	0.291	2.35	11.18	18.60
	Potassium silicate 1	12.83	2.95	1.69	0.260	2.42	10.89	19.65
	Potassium silicate 2	13.12	3.15	1.90	0.245	2.15	11.87	20.04
	LSD at 5%	0.50	0.19	0.17	0.01	0.06	0.93	0.06

Control = Tap water, Yeast 1= Yeast extract at 3gl^{-1} , Yeast 2= Yeast extract at 6gl^{-1} , Potassium silicate 1= Potassium silicate at 2gl^{-1} , Potassium silicate 2= Potassium silicate at 4gl^{-1}