

Table 2. Effect of irrigation intervals, water absorbent substrates and its interaction on vegetative growth and leaf chlorophyll concentration of sweet pepper plants during the two seasons of 2013 and 2014

Treatments		Plant length (cm)		No. of. leave / plant		No. of. brunches/ plant		Leaf area (cm ²)		Fresh weight g / plant		Dry weight g / plant		leaf chlorophyll SPAD	
		2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014
Irrigation intervals															
Every 7 days		43.70	40.46	136.27	130.78	6.20	6.40	198.49	187.44	132.00	132.19	23.24	23.66	53.48	50.50
Every 15 days		34.22	30.99	109.97	112.04	4.03	4.54	133.07	121.95	78.39	77.00	13.13	14.23	50.19	49.52
Every 21 days		29.33	30.76	75.63	78.73	4.93	4.36	94.63	95.34	64.00	57.68	9.47	8.90	54.77	52.84
L.S.D at 5 %		1.80	1.58	5.26	7.87	0.88	0.78	11.04	7.98	5.85	9.54	2.08	1.91	N.S	1.04
Substrates															
Without (cont)		29.00	29.50	74.66	72.33	3.72	3.84	64.43	65.00	69.18	63.26	9.74	9.89	47.04	44.65
SAP 15kg/fed		32.33	30.83	95.61	104.78	4.27	5.10	139.14	143.05	87.83	87.63	15.19	15.58	52.93	52.05
SAP 20kg/fed		32.00	31.50	118.44	115.74	5.05	5.22	159.16	139.75	97.81	100.46	16.93	16.90	54.70	49.25
Compost 5t/fed		26.33	30.50	106.06	114.74	6.05	5.35	158.01	160.55	90.69	84.69	16.32	16.91	55.27	54.48
Compost 10t/fed		27.00	31.50	141.67	128.33	6.16	6.00	189.58	166.18	111.82	108.76	18.21	18.70	54.12	54.34
L.S.D at 5 %		2.48	1.74	5.64	5.77	0.93	0.71	6.12	20.89	3.45	4.80	1.54	1.05	5.04	3.29
Irrigation intervals X Substrates															
Every 7 days	Without (cont)	32.11	31.72	90.33	90.67	4.50	4.53	78.22	77.33	93.90	86.27	16.75	17.40	46.50	44.70
	SAP 15kg/fed	37.61	33.61	107.33	123.67	5.00	6.50	211.41	202.29	131.60	136.81	23.77	24.28	56.40	55.15
	SAP 20kg/fed	41.37	35.72	145.00	128.00	6.00	6.66	212.54	183.91	140.33	146.50	24.15	25.32	57.25	50.40
	Compost 5t/fed	34.77	35.50	135.67	150.55	8.00	7.00	214.50	231.37	136.67	139.92	24.10	24.73	55.31	52.55
	Compost 10t/fed	32.88	33.83	203.00	161.00	7.50	7.33	275.78	242.30	157.51	151.47	27.45	26.56	51.96	49.73
Every 15 days	Without (cont)	38.50	38.00	84.16	76.33	3.50	4.00	60.08	60.68	60.75	60.90	9.55	9.65	48.41	46.00
	SAP 15kg/fed	45.16	41.00	94.50	100.67	3.50	4.37	109.19	126.59	70.85	69.08	12.55	14.05	45.86	48.70
	SAP 20kg/fed	48.33	39.33	118.67	126.22	3.66	4.75	159.00	134.50	89.90	92.52	15.46	15.20	52.10	45.20
	Compost 5t/fed	45.50	43.50	112.50	115.00	4.50	4.25	152.57	144.24	64.20	64.00	13.03	15.00	50.85	51.95
	Compost 10t/fed	41.00	40.50	140.00	142.00	5.00	5.33	184.53	143.73	106.25	98.50	15.05	17.25	53.73	55.75
Every 21 days	Without (cont)	28.83	27.66	49.50	50.00	3.16	3.00	55.00	57.00	52.90	42.60	2.93	2.62	46.23	43.25
	SAP 15kg/fed	35.33	29.00	85.00	90.00	4.33	4.43	96.82	100.28	61.03	57.00	9.26	8.40	56.53	52.30
	SAP 20kg/fed	43.77	36.33	91.67	93.00	5.50	4.25	105.94	100.85	63.18	62.35	11.20	10.20	54.76	52.16
	Compost 5t/fed	32.50	32.50	70.00	78.67	5.66	4.80	106.97	106.05	71.20	50.17	11.85	11.00	59.66	58.95
	Compost 10t/fed	30.66	29.50	82.00	82.00	6.00	5.33	108.43	112.50	71.70	76.30	12.13	12.30	56.66	57.55
L.S.D at 5% of interaction		1.47	1.03	3.35	3.42	N.S	N.S	3.63	12.4	2.05	2.85	N.S	N.S	N.S	1.96

Table 3. Effect of irrigation intervals, water absorbent substrates and its interaction on yield and its fruits quality of sweet pepper plants during the two seasons of 2013 and 2014

Treatments	Fruit length (cm)		Fruit diameter (cm)		Fresh fruit weight (g)		Dry fruit weight(g)		Early yield t/fed		Total yield t/fed		V.C mg/100g f.w		
	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	
Irrigation intervals															
Every 7 days	6.80	6.77	3.47	3.44	22.56	23.78	8.31	7.99	2.49	2.42	4.97	5.32	134.93	148.28	
Every 15 days	6.49	6.49	3.40	3.40	20.40	20.38	9.07	9.39	1.98	1.86	4.62	4.65	169.55	139.79	
Every 21 days	5.95	5.45	3.32	3.32	19.10	18.41	9.44	9.53	1.20	1.40	3.65	3.75	177.50	162.17	
L.S.D at 5 %	0.64	0.56	N.S	N.S	1.80	0.71	0.60	0.52	0.42	0.21	0.18	0.46	5.18	1.75	
Substrates															
Without (cont)	5.77	5.59	3.07	3.07	17.32	18.00	8.54	8.43	1.37	1.28	2.57	2.60	159.73	145.39	
SAP 15/kg/fed	6.33	6.23	3.32	3.32	20.18	20.56	8.61	8.88	1.84	1.79	4.35	4.48	162.17	133.45	
SAP 20kg/fed	6.66	6.49	3.64	3.64	22.63	22.61	9.30	9.34	2.16	2.22	5.05	5.27	176.49	148.23	
Compost 5t/fed	6.53	6.26	3.40	3.40	21.06	20.99	9.06	8.71	1.85	1.97	4.72	5.05	142.50	148.04	
Compost 10t/fed	6.77	6.61	3.55	3.49	22.27	22.12	9.20	9.49	2.24	2.22	5.36	5.46	162.41	176.61	
L.S.D at 5 %	0.57	0.41	0.18	N.S	0.89	0.73	0.36	0.32	0.20	0.26	0.38	0.29	3.60	2.31	
Irrigation intervals X Substrates															
Every 7 days	Without (cont)	6.30	6.28	3.15	3.15	19.84	20.75	8.12	7.89	1.87	1.66	3.17	3.06	95.12	98.73
	SAP 15/kg/fed	6.73	6.69	3.42	3.42	22.07	22.78	8.66	8.47	2.39	2.20	5.08	5.62	132.07	133.45
	SAP 20kg/fed	7.00	6.99	3.62	3.62	23.48	25.24	8.84	8.26	2.82	2.85	5.44	5.94	136.71	132.37
	Compost 5t/fed	6.84	6.83	3.45	3.45	22.59	23.89	8.50	7.50	2.33	2.50	5.09	5.90	151.90	180.11
	Compost 10t/fed	7.13	7.06	3.72	3.55	24.84	26.22	7.47	7.86	3.02	2.91	6.05	6.06	158.86	196.74
Every 15 days	Without (cont)	6.01	6.01	2.97	2.97	16.23	17.06	9.80	9.50	1.44	1.30	2.83	2.94	151.90	144.31
	SAP 15/kg/fed	6.31	6.56	3.30	3.30	19.76	20.62	7.45	8.18	2.06	1.88	4.63	4.62	190.96	132.37
	SAP 20kg/fed	6.80	6.83	4.01	4.01	23.74	23.56	8.95	9.82	2.25	2.20	5.39	5.29	208.32	145.58
	Compost 5t/fed	6.66	6.54	3.30	3.30	21.10	20.40	8.96	9.23	1.93	1.84	4.77	4.91	147.56	134.54
	Compost 10t/fed	6.70	6.53	3.42	3.42	21.20	20.30	10.22	10.22	2.24	2.10	5.46	5.50	149.00	142.13
Every 21 days	Without (cont)	5.00	4.50	3.10	3.10	15.89	16.20	7.70	7.90	0.79	0.89	1.71	1.79	232.17	193.13
	SAP 15/kg/fed	5.96	5.45	3.25	3.25	18.70	18.28	9.73	10.01	1.07	1.29	3.33	3.21	163.47	134.54
	SAP 20kg/fed	6.20	5.65	3.31	3.31	20.66	19.05	10.13	9.95	1.40	1.61	4.32	4.58	184.45	162.75
	Compost 5t/fed	6.11	5.42	3.46	3.46	19.50	18.70	9.51	9.40	1.29	1.56	4.30	4.34	128.03	129.48
	Compost 10t/fed	6.50	6.25	3.51	3.51	20.79	19.85	10.15	10.41	1.45	1.64	4.58	4.83	179.38	190.96
L.S.D at 5% of interaction	N.S	N.S	0.11	N.S	0.53	0.43	0.21	0.19	N.S	N.S	N.S	0.18	1.38	N.S	