Table 3. Effect of bio, organic and inorganic nitrogen fertilizers on vegetative growth characters of pepper plants during 2013 and 2014 seasons

Seasons	2013					2014				
Fertilizers	Plant length (cm)	No. of leaves	No. of branches	Leaves d.w. (g)	shoots d.w. (g)	Plant length (cm)	No. of leaves	No. of branches	Leaves d.w. (g)	shoots d.w. (g)
T_1	58.9	187.8	18.9	36.4	41.9	61.4	175.3	16.6	37.6	37.2
T_2	62.9	232.1	21.7	42.4	46.2	67.2	250.3	21.5	47.3	55.3
T_3	55.2	126.5	17.2	30.8	32.3	53.3	146.2	14.6	28.2	22.5
T_4	56.8	151.6	18.4	35.3	36.5	59.9	112.3	16.4	36.1	34.6
T_5	57.9	205.6	19.3	33.8	33.4	58.3	206.9	18.3	32.1	32.7
T_6	61.2	222.4	19.4	40.8	41.4	61.4	214.3	21.8	43.6	41.1
T_7	64.9	238.7	23.3	45.5	49.9	61.3	255.4	23.3	50.6	58.1
T_8	66.8	242.3	27.3	48.2	56.9	63.9	261.9	24.9	53.9	61.7
LSD (at 5% level)	5.0	46.1	1.9	11.0	9.9	5.9	49.1	1.8	8.5	7.9

T_1: Mineral – N (control) ; T_2: Mineral + bio; T_3: organic (FYM); T_4: organic (dried biogas digester residue); T_5: (FYM) + bio- N; T_6: (dried biogas digester residue) + bio – N; T_7: (FYM) + bio + mineral – N; T8: (dried biogas digester residue) + bio + mineral – N.

[328]Bulletin No.(902),2004. Agriculture Research Centre, Ministry of Agriculture Egypt.

Table 4. Effect of bio, organic and inorganic nitrogen fertilizers on yield and physical fruit quality of pepper plants during 2013 and 2014 seasons

Seasons	2013					2014				
Fertilizers	No. of fruits/ plant	Yield/ plant (kg)	Fruit yield (kg m^{-2})	Fruit diameter (cm)	Flesh thicknesss (cm)	No. of fruits/ plant	Yield/ plant (kg)	Fruity yield (kg m-2)	Fruit diameter (cm0	Flesh thickness 9cm)
T_1	14.70	1.45	7.85	7.86	0.84	15.34	1.62	8.62	7.76	0.52
T_2	18.91	2.10	9.41	8.16	0.56	21.68	2.50	8.71	8.21	0.54
T_3	8.81	0.98	6.28	7.44	0.38	7.44	0.89	6.73	7.66	0.53
T_4	12.21	1.40	7.42	7.96	0.48	12.42	1.59	7.45	8.12	0.51
T_5	10.32	1.43	7.23	7.87	0.38	11.45	1.35	7.53	8.13	0.46
T_6	15.32	1.92	8.42	8.31	0.53	15.35	1.79	8.48	8.21	0.51
T_7	21.93	2.46	9.86	8.16	0.56	22.43	3.25	9.46	8.97	0.56
T_8	23.82	3.15	11.37	8.28	0.62	24.75	3.49	10.11	9.36	0.61
LSD (at 5% level)	2.71	0.21	0.98	NS	NS	2.76	0.27	0.79	NS	NS

T_1: Mineral – N (control); T_2: Mineral + bio; T_3: organic (FYM); T_4: organic (dried biogas digester residue); T_5: (FYM) + bio- N; T_6: (dried biogas digester residue) + bio – N; T_7: (FYM) + bio + mineral – N; T8: (dried biogas digester residue) + bio + mineral – N.

Table 5. Effect of bio, organic and inorganic nitrogen fertilizers on chemical quality of pepper fruits during 2013 season

Seasons	2013												
	(mg g^{-1})				(%)			(ppm)					
Fertilizers	Acidity	Vitamin C	TSS	Dry matter	N	P	K	Fe	Mn	Zn	Cu	Ni	Pb
T_1	257.0	63.23	5.23	8.99	1.92	0.36	1.89	128.1	22.6	49.1	7.6	50.2	25.6
T_2	262.0	63.33	5.87	9.11	2.34	0.93	2.98	122.2	26.3	42.1	11.6	46.8	25.5
T_3	259.1	63.67	4.43	8.71	2.46	0.54	2.87	108.3	19.6	43.3	6.8	58.8	19.3
T_4	259.3	63.42	5.15	8.82	2.41	0.43	2.53	132.7	22.8	47.1	8.7	61.7	26.8
T_5	264.1	63.10	4.36	9.01	1.91	0.33	1.99	112.7	18.2	42.1	6.3	52.8	23.6
T_6	258.2	63.37	5.84	9.27	2.34	0.49	2.31	143.2	23.6	50.0	9.5	56.1	20.6
T_7	261.1	63.20	5.11	9.73	2.44	0.93	3.34	129.1	28.3	60.7	16.8	54.1	24.1
T_8	264.2	63.49	5.93	9.98	2.42	0.98	3.72	144.7	30.1	69.8	17.4	59.1	29.4
LSD (at 5% level)	2.3	NS	NS	NS	0.18	0.08	0.62	14.1	6.7	7.4	3.39	NS	NS

T_1: Mineral – N (control); T_2: Mineral + bio; T_3: organic (FYM); T_4: organic (dried biogas digester residue); T_5: (FYM) + bio- N; T_6: (dried biogas digester residue) + bio – N; T_7: (FYM) + bio + mineral – N; T8: (dried biogas digester residue) + bio + mineral – N.

Table 6. Effect of bio, organic and inorganic nitrogen fertilizers on chemical quality of pepper fruits during 2014 season.

Seasons	2014												
	(mg g^{-1})				(%)			(ppm)					
Fertilizers	Acidity	Vitamin C	TSS	Dry matter	N	P	K	Fe	Mn	Zn	Cu	Ni	Pb
T_1	260.1	59.31	5.31	7.86	1.95	0.38	2.81	125.1	21.5	48.1	6.5	49.1	26.5
T_2	265.0	59.11	5.61	8.13	2.53	0.93	3.56	120.1	25.3	41.2	10.9	47.2	26.4
T_3	301.1	59.61	4.45	7.82	2.54	0.53	3.87	105.4	18.8	42.4	7.8	56.9	20.3
T_4	301.4	59.34	5.34	7.79	2.53	0.45	3.64	129.7	21.9	46.2	7.8	60.7	25.7
T_5	267.2	59.11	4.41	8.12	1.87	0.34	2.98	108.8	17.3	41.2	6.4	51.9	24.7
T_6	261.3	59.21	5.51	8.35	2.54	0.48	3.42	140.3	22.5	49.1	10.9	55.1	19.9
T_7	264.2	59.40	5.22	8.93	2.64	0.92	4.34	126.2	27.4	59.8	17.8	53.0	23.2
T_8	267.3	59.53	5.81	8.66	2.53	0.95	4.35	141.8	29.3	68.9	18.3	58.1	28.1
LSD (at 5% level)	2.3	NS	NS	NS	0.18	0.08	0.62	14.1	6.7	7.4	3.39	NS	NS

T_1: Mineral – N (control); T_2: Mineral + bio; T_3: organic (FYM); T_4: organic (dried biogas digester residue); T_5: (FYM) + bio- N; T_6: (dried biogas digester residue) + bio – N; T_7: (FYM) + bio + mineral – N; T8: (dried biogas digester residue) + bio + mineral – N.