

Table (3): Means of Neck diameter(cm),Bulb diameter(cm), Bulbing ratio, Cloves weight of 5 bulbs (gm)and Cloves number of 5 bulbs for 11garlic genotypes selections grown in the two consecutive seasons 2007/2008 and 2008/2009 under Assiut condition

Genotypes number	Neck diameter (cm)		Bulb diameter (cm)		Bulbing ratio		Cloves weight of 5 bulbs (gm)		Cloves number of 5 bulbs	
	<sup>st</sup> 1 season	2 <sup>nd</sup> season	<sup>st</sup> 1 season	2 <sup>nd</sup> season	<sup>st</sup> 1 season	2 <sup>nd</sup> season	<sup>st</sup> 1 season	2 <sup>nd</sup> season	<sup>st</sup> 1 season	2 <sup>nd</sup> season
<b>1</b>	0.96 a	0.59 a	4.62 abc	4.13 a	0.21 a	0.14 a	252.00 b	228.33 ab	215.00 a	153.67 a
<b>2</b>	1.11 a	0.57 a	4.81 bc	3.95 a	0.23a	0.13 a	183.67 e	235.67 ab	183.33 ab	150.33 a
<b>3</b>	1.06 a	0.56 a	4.70 abc	4.36 a	0.23 a	0.13a	227.67 c	244.67 ab	173.33 ab	134.33 a
<b>4</b>	0.87 a	0.64 a	4.46 c	4.54 a	0.19 a	0.14a	240.00 bc	259.33 ab	191.67 ab	140.00 a
<b>5</b>	0.05 a	0.65 a	4.77 abc	4.35 a	0.22 a	0.15a	189.33 e	209.67 b	223.33 a	154.33 a
<b>6</b>	1.09 a	0.64 a	5.00 ab	3.90 a	0.22 a	0.16a	200.00 de	222.00 ab	183.33 ab	125.00 a
<b>7</b>	0.91 a	0.68 a	4.71 abc	3.87 a	0.19 a	0.18a	234.33 bc	275.33 ab	175.67 ab	140.33 a
<b>8</b>	0.99 a	0.71 a	5.13 a	4.62 a	0.19 a	0.15a	195.00 e	268.00 ab	211.67 a	130.00 a
<b>9</b>	0.99 a	0.55 a	4.59 bc	4.32 a	0.21 a	0.13a	219.67 cd	296.33 ab	232.33 a	112.00 a
<b>10</b>	0.95 a	0.56 a	4.55 bc	4.23 a	0.21 a	0.13a	284.67 a	329.67 b	144.00 bc	111.33 a
<b>11</b>	1.05 a	0.56 a	5.06 ab	4.64 a	0.21 a	0.13a	219.00 cd	300.33 ab	112.33 c	117.00 a

Means with in each column followed by the same letter or letters are not significantly different from each other at 0.5% level

Table (4): Means of Plants number/plot, Plants number/fed, Plot yield (gm), Yield (ton/fed) and T.S.S. (%) for 11garlic genotypes Selections grown in the two consecutive seasons 2007/2008 and 2008/2009 under Assiut condition

Genotypes number	Plants number/plot		Plants number / fed		Plot yield (gm)		Yield (ton/fed)		T.S.S.(%)	
	1 <sup>st</sup> season	2 <sup>nd</sup> season	1 <sup>st</sup> season	2 <sup>nd</sup> season	1 <sup>st</sup> season	2 <sup>nd</sup> season	1 <sup>st</sup> sea-son	2 <sup>nd</sup> season	1 <sup>st</sup> sea-son	2 <sup>nd</sup> season
<b>1</b>	105.33ab	58.67abc	78025ab	43456abc	7200.0abc	2600.0bc	5.33 a	1.93 bc	38.00a	37.67 a
<b>2</b>	91.33ab	65.33ab	67654ab	48395ab	6883.33 bc	2510.0bc	5.10 a	1.86 bc	35.33a	35.33a
<b>3</b>	76.33 b	52.33abc	56543 b	38765abc	6203.33 cd	2400.0bc	4.60 a	1.78 bc	36.33a	39.67a
<b>4</b>	100.00ab	47.67bc	74074ab	35309bc	6800.00 bc	2400.0bc	5.04 a	1.78 bc	38.67a	35.67a
<b>5</b>	93.33ab	65.00ab	69136ab	48268ab	7833.33ab	3786.67ab	5.80 a	2.81 ab	37.00a	40.00a
<b>6</b>	111.67 a	79.00 a	82716 a	58519 a	8000.00 a	5150.00 a	5.93 a	3.82 a	37.67a	38.33a
<b>7</b>	88.33ab	34.67 c	65432ab	25679 c	5433.33 d	1116.67 c	4.04 a	0.83 c	37.00a	38.33a
<b>8</b>	106.00ab	71.33ab	78518ab	52840ab	7683.33ab	3673.33ab	5.69 a	2.72 ab	34.67a	38.33a
<b>9</b>	102.00ab	68.00ab	75556ab	50371 ab	7416.67ab	1873.33bc	5.49 a	1.39 bc	36.67a	38.67a
<b>10</b>	81.00ab	42.67bc	60000ab	31605 bc	5650.00 d	2050.00bc	4.19 a	1.56 bc	37.67a	36.33a
<b>11</b>	84.67ab	51.67abc	62716ab	38272abc	7300.00ab	2700.00bc	5.41 a	2.00 bc	38.67a	37.33a

Table (5): Estimates of phenotypic coefficients correlation between all possible pairs of the studied characters of Egyptian garlic genotype selections in 2007/2008

	Plot yield	No. of Plants /plot	Neck diameter (cm)	10plant weight (gm)	Leaves number /plant	Plant height (cm)	Bulb diameter (cm)	bulbing ratio	No. of plants/ fed	yield ton/ fed	Cloves weight/ 5bulbs (gm)	Cloves number/ 5bulbs	T.S.S. (%)
<b>Plot yield</b>	—	**0.73	0.10	**0.49	0.08	0.06	0.12	0.03	**0.73	**1.00	-0.26	-0.08	0.08
<b>No. of plants/plot</b>		—	-0.16	0.03	-0.10	-0.02	-0.10	-0.14	**1.00	**0.73	-0.11	-0.11	0.06
<b>Neck diameter(cm)</b>			—	*0.39	0.12	0.12	*0.43	**0.83	-0.16	0.09	0.09	0.01	-0.19
<b>10 plant weight/plot (gm)</b>				—	0.11	0.01	*0.41	0.21	0.03	**0.49	-0.06	0.005	-0.02
<b>Leaves number /plant</b>					—	0.06	0.26	0.07	-0.10	0.08	-0.05	-0.13	0.24
<b>Plant height (cm)</b>						—	0.30	-0.09	0.02	0.05	** -0.47	0.09	0.18
<b>Bulb diameter(cm)</b>							—	-0.13	-0.10	0.12	-0.21	0.05	0.02
<b>bulbing ratio</b>								—	-0.14	0.03	0.24	-0.02	-0.22
<b>No. of plants/fed (ton/fed) yield</b>									—	**0.73	-0.11	-0.84	0.06
<b>Cloves weight/5bulbs (gm)</b>										—	-0.26	0.01	0.08
<b>Cloves number/ 5bulbs</b>											—	0.08	-0.19
<b>T.S.S. (%)</b>												—	0.19

\* significant at 5%

\*\* highly significant at 1%

Table (6): Estimates of phenotypic coefficients correlation between all possible pairs of the studied characters of Egyptian garlic genotype selections in 2008/2009

	Plot yield	No. of Plants /plot	Neck diameter (cm)	10plant weight (g)	Leave number/plant	Plant height (cm)	Bulb diameter (cm)	bulbing ratio	No. of plants/fed	yield ton/fed	Cloves weight/5bulbs (gm)	Cloves number/5bulbs	T.S.S. (%)
<b>Plot yield</b>	—	**0.74	0.09	**0.49	-0.10	**0.63	0.27	-0.05	**0.74	**1.00	-0.16	0.21	0.05
<b>No. of plants/plot</b>		—	-0.05	0.26	0.22	**0.57	0.12	-0.18	**1.00	**0.74	-0.05	0.03	0.13
<b>Neck diameter(cm)</b>			—	0.26	0.05	0.23	0.22	**0.10	-0.05	0.09	-0.18	0.05	-0.25
<b>10 plant weight/plot(gm)</b>				—	-0.16	**0.51	**0.55	0.02	0.26	*0.42	-0.12	-0.22	-0.08
<b>Leaves number/plant</b>					—	-0.18	0.09	0.03	-0.22	-0.10	-0.00	-0.16	0.20
<b>Plant height (cm)</b>						—	0.25	0.06	**0.57	**0.63	** -0.38	0.27	0.10
<b>Bulb diameter(cm)</b>							—	-0.12	0.12	0.27	0.07	-0.03	0.03
<b>bulbing ratio</b>								—	-0.17	0.05	-0.14	-0.21	-0.22
<b>No. of plants/fed</b>									—	**0.74	-0.05	0.21	0.13
<b>Yield(ton/fed)</b>										—	-0.16	0.05	0.05
<b>Cloves weight/5bulbs (gm)</b>											—	-0.41	-0.25
<b>Cloves number/5bulb</b>												—	0.16
<b>T.S.S.(%)</b>													—

\* significant at 5%

\*\* highly significant at 1%