

Table(1): Some chemical and physical analyses of soil and irrigation water of the three experimental sites.

Locations	Types	EC dSm ⁻¹	pH	Cations meq/L.				Anions meq/L.			CaCO ₃ %	Textural Class
				Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	Cl ⁻	SO ₄ ⁼		
Maryout	Soil (0-30)	4.80	7.7	17.3	9.22	30.65	1.09	3.6	32.00	22.66	28.6	Loamy clay
	Water	3.52	7.5	7.02	8.03	17.33	0.42	9.33	16.44	6.87	-----	
Shalkan	Soil (0-30)	0.18	8.46	4.44	4.95	5.28	0.48	1.84	5.22	-	2.94	Silty clay
	Water	Nile water										
Sohag	Soil (0-25)	5.28	7.75	28.10	18.20	3.40	2.50	24.10	15.60	7.6	11.43	Sandy clay loam
	Water	Nile water										

Table(3): Mean performance of 11 mungbean genotypes at each environment for seed yield/plant and two of its components.

Genotype	No. of seeds/plant					100-seeds weight (g)					Seed yield/plant (g)				
	Env ₁	Env ₂	Env ₃	Env ₄	Env ₅	Env ₁	Env ₂	Env ₃	Env ₄	Env ₅	Env ₁	Env ₂	Env ₃	Env ₄	Env ₅
L4040	59.73	50.13	105.1	91.73	82.67	4.28	4.31	5.43	4.99	4.58	2.47	2.18	4.97	4.81	3.90
L1320	139.1	91.07	146.9	132.1	120.1	3.08	2.96	4.27	4.55	3.40	4.09	2.49	6.20	5.78	5.07
L3840	62.13	52.67	96.27	93.07	93.20	4.73	4.09	5.21	4.95	4.97	2.22	2.20	5.25	4.65	4.31
L120	54.67	48.67	90.67	89.20	88.27	3.64	3.51	4.55	4.90	4.58	1.94	1.66	4.08	4.02	4.07
L3630	118.0	84.40	140.0	122.8	118.9	3.04	2.54	4.22	4.45	4.57	3.80	2.71	5.52	5.56	5.25
L3740	128.8	91.20	149.7	135.6	124.4	4.46	4.00	4.74	4.78	4.76	5.66	3.49	6.84	6.50	5.58
L3940	106.3	89.07	122.0	118.3	115.9	5.36	4.46	5.83	5.25	4.95	5.69	4.33	6.40	6.03	5.75
L2020	105.7	79.60	138.7	135.6	124.0	3.51	3.77	4.42	4.67	4.81	3.85	2.71	5.49	6.45	5.68
L2920	106.4	94.67	131.5	144.9	135.5	3.86	3.19	4.49	4.76	4.19	3.85	3.05	5.21	6.82	5.96
L220	54.67	51.60	100.0	119.7	122.0	2.51	2.36	3.29	4.02	3.84	1.48	1.21	3.12	4.54	4.58
Kawmy -1	143.7	125.1	173.7	159.7	142.5	2.29	1.93	2.66	3.04	3.55	3.12	2.51	4.29	4.87	5.29
LSD .05	13.46					0.47					0.68				
.01	17.88					0.626					0.91				
Mean	98.11	78.01	126.8	122.1	115.2	3.70	3.37	4.46	4.58	4.38	3.47	2.59	5.22	5.46	5.04
LSD .05	4.67					0.106					0.190				
.01	6.20					0.140					0.252				

L.S.D.: Least significant difference

Table (5): Mean values of seed yield and some yield components over environments, regression coefficient (bi) and deviation mean squares (S²di) for 11 mungbean genotypes.

Genotype	No. of seeds / plant					100 – seed weight (g)					Seed yield / plant (g)				
	Mean	bi	S ² di	α	λ	Mean	bi	S ² di	α	λ	Mean	bi	S ² di	α	λ
1- L4040	77.87	1.095	21.39	-0.0122	2.6499	4.72	0.740	0.089	-0.2615	3.3756*	3.67	0.988	0.133	0.0955	1.6120
2- L1320	125.9	0.847	227.2	0.1353	3.0913*	3.65	1.181	0.147	0.1819	5.0876*	4.73	1.135	0.165	-0.1539	8.9608*
3- L3840	79.47	0.988	13.49	0.0702	4.1396*	4.79	0.729	0.020	-0.2727	1.3693	3.72	1.070	0.241	-0.0118	1.3310
4- L120	74.29	0.987	31.42	-0.0341	1.2904	4.24	1.157	-0.008	0.1573	0.5434	3.16	0.966	0.035	-0.0120	1.9710
5- L3830	116.8	0.935	53.77	0.0029	0.2092	3.76	1.693	0.027	0.6963	1.5392	4.57	1.003	-0.044	-0.0659	2.7686*
6- L3740	125.9	0.991	78.38	-0.0977	7.5295*	4.55	0.598	-0.012	-0.4043	0.4183	5.61	0.903	0.487	-0.0093	3.6482*
7- L3940	110.3	0.656	-20.07	-0.4596	2.7591*	5.17	0.587	0.187	-0.4151	6.2649*	5.64	0.542	0.142	-0.3469	0.1166
8- L2020	116.7	1.220	-21.23	0.1959	1.0903	4.23	0.950	0.068	-0.0501	2.7880*	4.84	1.195	0.020	0.2218	0.0845
9-0 L2920	122.6	0.982	56.81	0.1568	4.4372*	4.10	1.052	0.008	-0.0527	1.021	4.98	1.156	0.263	-0.0178	2.8780*
10- L220	89.60	1.462	413.63	0.1698	8.1504*	3.20	1.326	0.078	0.3276	3.0645*	2.99	1.169	0.632	0.4649	15.5919*
11-Kawmy-1	149.0	0.837	59.36	-0.1272	3.2546*	2.69	0.988	0.146	-0.0123	5.0523*	4.02	0.873	0.177	-0.1645	2.9653
Mean	108.04	1.000	-			4.100	1.000	-			4.357	1.000	-		
L.S.D 0.05	6.02	-	-			0.211	-	-			0.306	-	-		
0.01	7.99	-	-			0.280	-	-			0.406	-	-		