

Table 2. Response of grain yield/plant of seventeen wheat genotypes (G) to sowing dates (D) and fertilization treatments (F) at Kalubia and Fayoum locations (L) in 2011/2012 growing season

Genotypes	Kalubia										Fayoum										Average	Overall mean	
	+ 14 Nov.					5 Dec.					20 Nov.					11 Dec.							
	0+Bio	40+Bio	60+Bio	80 kg N/fed.	Mean	0+Bio	40+Bio	60+Bio	80 kg N/fed.	Mean	0+Bio	40+Bio	60+Bio	80 kg N/fed.	Mean	0+Bio	40+Bio	60+Bio	80 kg N/fed.	Mean			
1	14.27	16.41	18.62	18.74	17.01	8.77	11.44	13.51	13.36	11.77	14.39	9.44	10.67	13.69	11.54	11.34	7.55	7.64	12.08	11.57	9.71	10.52	12.46
2	12.38	14.11	16.39	19.63	15.63	6.73	6.84	8.57	11.56	8.43	12.03	11.42	13.56	13.63	15.52	13.53	8.44	10.42	12.35	12.43	10.91	12.22	12.12
3	10.92	13.18	18.79	16.74	14.91	7.86	8.47	9.38	11.29	9.25	12.08	11.47	13.42	19.91	18.58	15.85	7.38	7.44	8.72	9.88	8.35	12.10	12.09
4	15.60	18.32	23.73	23.72	20.34	9.34	11.87	14.28	16.59	13.02	16.68	11.83	13.74	14.79	21.93	15.57	6.52	7.80	10.84	11.61	9.19	12.38	14.53
5	16.22	19.31	26.81	22.83	21.30	14.29	18.74	21.26	23.29	19.39	20.34	12.94	14.73	22.93	19.09	17.42	7.17	9.09	11.80	9.97	9.51	13.46	16.90
6	14.88	17.56	20.63	20.71	18.45	10.27	14.71	16.30	17.14	14.61	16.53	13.11	13.31	13.87	15.80	14.02	6.57	7.80	11.20	11.64	9.30	11.66	14.09
7	17.25	21.49	29.32	29.43	24.37	8.51	10.27	14.77	12.64	11.55	17.96	12.17	16.71	22.12	20.87	17.97	7.37	8.26	12.72	12.62	10.24	14.11	16.03
8	15.29	19.22	22.15	30.06	21.68	10.52	12.17	14.53	17.57	13.70	17.69	13.54	17.12	20.77	18.85	17.57	5.46	5.97	10.69	8.19	7.58	12.57	15.13
9	23.10	30.72	32.39	33.01	29.81	16.99	26.42	28.82	30.22	25.61	27.71	13.79	17.69	21.47	23.43	19.10	11.51	15.73	18.19	16.54	15.49	17.29	22.50
10	23.87	31.04	38.96	35.37	32.31	21.87	30.18	33.35	30.42	28.95	30.63	18.14	21.05	23.17	21.39	20.94	11.84	13.61	19.25	19.56	16.07	18.50	24.57
11	20.67	27.72	28.73	32.05	27.29	17.69	25.01	25.65	31.49	24.96	26.13	18.34	21.06	22.47	25.95	21.96	10.24	11.52	14.78	12.83	12.34	17.15	21.64
12	15.37	19.56	22.66	21.99	19.90	10.49	12.96	18.67	13.89	14.00	16.95	8.51	11.12	12.76	13.33	11.43	6.80	7.57	12.44	10.87	9.42	10.42	13.69
13	18.21	24.38	24.88	26.19	23.42	11.48	14.44	17.29	16.40	14.90	19.16	11.05	12.72	17.37	15.60	14.19	7.23	9.13	13.56	13.27	10.80	12.49	15.83
14	13.09	15.99	26.41	27.69	20.80	8.20	9.25	13.53	13.67	11.16	15.98	10.90	12.35	15.50	14.85	13.40	7.49	8.52	13.57	11.56	10.29	11.84	13.91
Sids 1	11.26	16.84	19.39	18.80	16.57	11.10	14.50	17.91	15.68	14.80	15.69	6.46	8.59	13.80	11.88	10.18	5.70	6.80	12.90	8.44	8.46	9.32	12.50
Sakha 93	11.41	15.16	15.55	16.96	14.77	10.81	12.06	12.63	15.54	12.76	13.77	11.77	13.47	15.67	15.72	14.15	7.26	8.86	10.05	8.67	8.71	11.43	12.60
Giza 168	12.82	16.11	17.80	21.26	17.00	12.12	15.92	16.82	18.26	15.78	16.39	11.07	13.37	17.78	17.76	15.00	8.49	9.47	13.11	11.78	10.71	12.85	14.62
Mean	15.68	19.83	23.72	24.42	20.91	11.59	15.01	17.49	18.18	15.57	18.24	12.12	14.39	17.75	17.77	15.51	7.83	9.16	12.84	11.85	10.42	12.96	15.60
L.S.D.5%																							
L																							0.13
D											0.12												0.13
F					0.77					0.78	0.49					0.92					0.93	0.58	0.18
LD																							NS
LF																							0.25
DF											0.69											NS	0.25
LDF																							0.36
G	2.01	2.35	2.52	2.24	1.11	2.32	1.68	1.88	1.63	0.92	0.72	1.44	2.36	2.28	1.87	0.98	1.48	1.17	1.58	1.77	0.74	0.61	0.72
GL																							1.02
GD											1.02											0.86	1.02
GF					2.22					1.84	1.44					1.96					1.47	1.22	1.44
GLD																							1.44
GLF																							2.04
GDF											2.03											1.73	2.04
GL																							2.88
DF																							2.88

. + Bio= Biofertilizer

Table 3. Response of protein content of seventeen wheat genotypes (G) to sowing dates (D) and fertilization treatments (F) at Kalubia and Fayoum locations (L) in 2011/2012 growing season

Genotypes	Kalubia										Fayoum										Overall mean																								
	+ 14 Nov.					5 Dec.					Average	20 Nov.					11 Dec.					Average																							
	0+Bio	40+Bio	60+Bio	80 kgN/fed.	Mean	0+Bio	40+Bio	60+Bio	80 kgN/fed.	Mean		0+Bio	40+Bio	60+Bio	80 kgN/fed.	Mean	0+Bio	40+Bio	60+Bio	80 kgN/fed.			Mean																						
											80																																		
1	9.55	10.90	13.15	13.49	11.77	10.15	11.32	12.32	11.46	11.31	11.54	10.81	13.07	15.23	13.43	13.14	10.69	12.24	14.70	13.35	12.75	12.94	12.24																						
2	7.44	8.85	12.97	13.91	10.79	7.42	10.18	11.93	12.43	10.49	10.64	8.98	12.55	12.47	13.01	11.75	9.02	12.17	13.61	11.93	11.68	11.72	11.18																						
3	8.41	13.06	14.53	14.99	12.75	9.86	11.64	11.64	12.23	11.34	12.05	8.57	10.80	12.89	10.89	10.79	10.11	13.88	14.76	13.96	13.18	11.98	12.01																						
4	7.20	10.26	14.02	14.60	11.52	8.81	10.24	11.18	12.62	10.71	11.12	9.43	11.03	14.12	14.90	12.37	10.64	13.46	13.34	12.82	12.57	12.47	11.79																						
5	6.61	9.96	11.43	10.49	9.62	7.47	11.60	12.80	12.90	11.19	10.41	9.70	11.84	12.85	12.09	11.62	9.99	11.99	13.25	13.47	12.18	11.90	11.15																						
6	8.17	10.53	14.60	14.96	12.07	8.35	11.00	12.29	13.51	11.29	11.68	10.30	12.97	14.52	13.59	12.85	9.68	12.91	14.13	13.53	12.56	12.70	12.19																						
7	10.28	13.21	14.39	14.46	13.09	10.44	11.39	13.29	12.11	11.81	12.45	10.45	13.39	13.72	14.74	13.08	11.17	13.49	14.03	13.38	13.02	13.05	12.75																						
8	8.90	14.16	14.38	11.99	12.36	9.82	12.35	13.28	13.59	12.26	12.31	10.12	13.06	13.48	13.51	12.54	10.51	12.78	13.98	13.48	12.69	12.62	12.46																						
9	10.30	13.44	13.66	14.65	13.01	8.17	12.31	12.95	13.38	11.70	12.36	10.74	13.28	14.67	12.63	12.83	11.85	13.38	13.62	13.47	13.08	12.96	12.66																						
10	8.53	11.32	12.32	12.86	11.26	9.70	12.03	14.13	12.01	11.97	11.61	8.71	11.94	14.67	13.66	12.25	10.43	11.93	13.12	13.21	12.17	12.21	11.91																						
11	12.15	13.48	14.46	14.08	13.54	10.66	13.60	11.89	13.09	12.31	12.93	9.19	10.85	13.87	14.43	12.09	9.65	11.77	13.47	12.79	11.92	12.00	12.46																						
12	7.20	10.39	13.48	14.01	11.27	8.56	10.50	11.18	12.52	10.69	10.98	10.49	11.63	15.13	14.28	12.88	10.74	14.52	13.86	12.60	12.93	12.91	11.94																						
13	8.27	9.66	13.04	14.14	11.28	7.63	10.51	11.88	11.68	10.43	10.85	9.77	14.00	13.70	12.72	12.55	9.91	13.22	14.55	11.59	12.32	12.43	11.64																						
14	11.34	13.37	13.10	14.27	13.02	10.44	12.67	11.09	12.15	11.59	12.30	8.28	10.64	14.77	14.13	11.96	8.79	11.01	13.36	13.51	11.67	11.81	12.06																						
Sids 1	10.14	13.06	13.30	13.11	12.40	8.73	10.85	13.20	11.27	11.01	11.71	8.38	11.88	12.69	13.61	11.64	9.47	11.26	13.38	11.89	11.50	11.57	11.64																						
Sakha 93	7.42	12.10	13.88	14.39	11.95	9.17	11.89	13.04	12.77	11.72	11.83	11.14	12.89	14.27	13.40	12.93	9.90	13.09	14.22	13.41	12.66	12.79	12.31																						
Giza 168	10.23	12.85	14.05	14.69	12.96	10.65	12.52	13.83	13.09	12.52	12.74	9.94	13.66	15.29	14.82	13.43	11.70	13.67	14.55	14.25	13.54	13.49	13.11																						
Mean	8.95	11.80	13.57	13.83	12.04	9.18	11.56	12.47	12.52	11.43	11.73	9.71	12.32	14.02	13.52	12.39	10.25	12.75	13.88	13.10	12.49	12.44	12.09																						
L.S.D.5%																																													
L																							0.02																						
D																							NS	0.02																					
F																							0.54	0.26	0.25	0.77	0.90	0.46	0.03																
LD																													0.03																
LF																													0.04																
DF																													NS	0.04															
LDF																														0.05															
G	0.70	0.93	1.20	1.09	0.47	0.99	0.92	1.03	NS	0.56	0.36	1.05	1.14	1.47	1.22	0.58	1.37	0.89	1.06	1.01	0.52	0.38	0.29																						
GL																																											0.41		
GD																																											0.54	0.41	
GF																																											1.03	0.77	0.58
GLD																																												0.58	
GLF																																												0.82	
GDF																																											1.08	0.82	
GLDF																																												1.17	

+ Bio= Biofertilizer

Table 4. Response of dry gluten content of seventeen wheat genotypes (G) to sowing dates (D) and fertilization treatments (F) at Kalubia and Fayoum locations (L) in 2011/2012 growing season

Genotype	Kalubia										Fayoum										Overall mean		
	14 Nov.					5 Dec.					Average	20 Nov.					11 Dec.					Average	
	+	0+Bio	40+Bio	60+Bio	80 kgN/fed.	Mean	0+Bio	40+Bio	60+Bio	80 kgN/fed.		Mean	0+Bio	40+Bio	60+Bio	80 kgN/fed.	Mean	0+Bio	40+Bio	60+Bio			80 kgN/fed.
1	7.73	8.73	10.56	10.80	9.46	8.14	9.08	9.86	9.19	9.07	9.26	8.68	10.49	12.39	10.75	10.58	8.77	9.83	11.76	10.71	10.27	10.42	9.84
2	5.97	7.08	10.39	11.37	8.70	5.95	8.18	9.55	9.96	8.41	8.56	7.19	10.05	9.99	10.37	9.40	7.19	9.77	10.89	9.70	9.39	9.39	8.98
3	6.74	10.46	11.61	11.99	10.20	7.85	9.31	9.32	9.78	9.07	9.63	7.08	8.67	10.32	8.74	8.70	7.89	11.11	11.82	11.16	10.50	9.60	9.62
4	5.78	8.32	11.28	11.67	9.26	7.05	7.88	9.16	10.16	8.56	8.91	7.56	8.85	11.34	11.93	9.92	8.51	10.51	10.44	10.26	9.93	9.93	9.42
5	5.30	7.97	9.14	8.41	7.71	5.97	9.30	10.22	10.29	8.95	8.33	7.75	9.50	10.32	9.69	9.32	7.98	9.61	10.60	10.76	9.74	9.53	8.93
6	6.77	8.41	11.68	11.96	9.71	6.91	8.82	9.83	10.80	9.09	9.40	8.24	10.40	11.67	10.91	10.31	7.73	10.35	11.27	10.66	10.00	10.15	9.78
7	8.22	10.59	11.52	11.59	10.48	8.37	9.14	10.66	9.72	9.47	9.98	8.34	10.91	11.09	11.80	10.54	8.98	10.80	11.25	10.73	10.44	10.49	10.23
8	7.14	11.33	11.49	9.81	9.94	7.85	9.89	10.64	10.85	9.81	9.88	8.11	10.47	10.82	10.83	10.06	8.49	10.35	11.20	10.81	10.21	10.14	10.01
9	8.25	10.85	10.99	11.75	10.46	6.57	9.86	10.38	10.76	9.39	9.93	8.61	10.64	11.78	10.10	10.28	9.45	10.75	10.79	10.84	10.46	10.37	10.15
10	6.74	9.05	9.89	10.31	9.00	7.76	9.66	11.31	9.51	9.56	9.28	6.97	9.60	11.70	10.95	9.81	8.68	9.59	10.53	10.55	9.84	9.82	9.55
11	9.72	10.97	11.72	11.34	10.94	8.52	10.90	9.33	10.50	9.81	10.38	7.53	8.70	11.13	11.55	9.73	7.76	9.43	10.78	10.24	9.55	9.64	10.01
12	5.77	8.31	10.81	11.24	9.03	6.87	8.71	8.94	10.02	8.64	8.83	8.39	9.32	12.11	11.46	10.32	8.61	11.59	11.27	10.09	10.39	10.36	9.59
13	6.61	7.70	10.45	11.33	9.02	6.13	8.44	9.54	9.41	8.38	8.70	7.80	11.15	10.93	10.03	9.98	7.91	10.61	11.65	9.28	9.86	9.92	9.31
14	9.08	10.68	10.51	11.36	10.41	8.34	10.16	8.91	9.76	9.29	9.85	6.61	9.27	11.82	11.32	9.76	7.02	8.83	10.67	10.78	9.33	9.54	9.70
Sids 1	8.11	10.41	10.66	10.50	9.92	6.99	8.70	10.55	9.03	8.82	9.37	6.69	9.53	10.15	10.87	9.31	7.60	8.97	10.72	9.51	9.20	9.26	9.31
Sakha 93	5.95	9.71	11.11	11.50	9.57	7.34	9.52	10.58	10.23	9.42	9.49	8.65	10.32	11.44	10.73	10.29	7.91	10.49	11.39	10.71	10.13	10.21	9.85
Giza 168	8.12	10.30	11.24	11.74	10.35	8.21	10.01	11.09	10.48	9.95	10.15	7.94	10.94	12.27	11.86	10.75	9.39	10.95	11.65	11.39	10.85	10.80	10.47
Mean	7.18	9.46	10.89	11.10	9.66	7.34	9.27	9.99	10.03	9.16	9.41	7.77	9.93	11.25	10.82	9.94	8.23	10.21	11.10	10.48	10.00	9.97	9.69
L.S.D.5%																							
L																							0.01
D											NS												NS
F					0.81					0.57	0.38					1.04					0.88	0.52	0.02
LD																							0.02
LF																							0.03
DF											0.54												NS
LDF																							0.04
G	0.82	0.82	0.90	0.77	0.36	0.88	0.81	0.73	NS	0.45	0.29	0.92	0.96	1.14	0.95	0.47	1.23	0.65	NS	0.84	0.44	0.32	0.25
GL																							0.36
GD											0.40												0.36
GF					0.73					0.89	0.57					0.94					0.88	0.64	0.51
GLD																							0.51
GLF																							0.72
GDF											0.81												0.90
GLDF																							1.01

+ Bio= Biofertilizer

