

Phenotypical Correlation Matrix

	Plant Height cm	Days to Maturity	Peduncle Volume	Earhead Nos.	Earhead Length cm	Spikes/ Main Earhead	Seeds/ Spikeltee of M	Main Earhead Wt.	Total Biomass
Plant Height cm	1.0000	-0.2679 **	-0.0231	0.2088 *	0.0302	0.1786	-0.0631	-0.1573	0.1159
Days to Maturity	-0.2679 **	1.0000	0.2892 **	0.1063	0.2170 *	0.4259 ***	-0.0924	0.1142	0.2505 **
Peduncle Volume	-0.0231	0.2892 **	1.0000	-0.1177	0.5332 ***	0.2946 **	0.1169	0.4844 ***	0.2496 **
Earhead Nos.	0.2088 *	0.1063	-0.1177	1.0000	-0.2001 *	0.2345 *	0.0272	-0.0366	0.7020 ***
Earhead Length cm	0.0302	0.2170 *	0.5332 ***	-0.2001 *	1.0000	0.4306 ***	-0.0054	0.5527 ***	0.2343 *
Spikes/Main Earhe	0.1786	0.4259 ***	0.2946 **	0.2345 *	0.4306 ***	1.0000	-0.3922 ***	0.0179	0.2588 **
Seeds/Spikeltee of	-0.0631	-0.0924	0.1169	0.0272	-0.0054	-0.3922 ***	1.0000	0.5272 ***	0.1935 *
Main Earhead Wt.	-0.1573	0.1142	0.4844 ***	-0.0366	0.5527 ***	0.0179	0.5272 ***	1.0000	0.4351 ***
Total Biomass	0.1159	0.2505 **	0.2496 **	0.7020 ***	0.2343 *	0.2588 **	0.1935 *	0.4351 ***	1.0000
Grain Yield/Plant	0.1300	0.1144	0.2451 *	0.6466 ***	0.1781	0.1694	0.2676 **	0.4904 ***	0.9101 ***

Significance Levels 0.05 0.01 0.005 0.001
 If correlation r => .1891 .2469 .2683 .3123

PATH matrix of Grain Yield/Plant g

	Plant Height cm	Days to Maturity	Peduncle Volume	Earhead Nos.	Earhead Length cm	Spikes/ Main Earhead	Seeds/ Spikeltee of M	Main Earhead Wt.	Total Biomass
Plant Height cm	0.0266	-0.0071	-0.0006	0.0056	0.0008	0.0048	-0.0017	-0.0042	0.0031
Days to Maturity	0.0285	-0.1064	-0.0308	-0.0113	-0.0231	-0.0453	0.0098	-0.0122	-0.0267
Peduncle Volume	-0.0010	0.0121	0.0420	-0.0049	0.0224	0.0124	0.0049	0.0203	0.0105
Earhead Nos.	0.0141	0.0072	-0.0080	0.0676	-0.0135	0.0158	0.0018	-0.0025	0.0474
Earhead Length cm	-0.0036	-0.0258	-0.0633	0.0238	-0.1188	-0.0511	0.0006	-0.0656	-0.0278
Spikes/Main Earhe	0.0030	0.0072	0.0050	0.0040	0.0073	0.0169	-0.0066	0.0003	0.0044
Seeds/Spikeltee of	0.0004	0.0006	-0.0007	-0.0002	0.0000	0.0024	-0.0061	-0.0032	-0.0012
Main Earhead Wt.	-0.0321	0.0233	0.0990	-0.0075	0.1129	0.0037	0.1077	0.2043	0.0889
Total Biomass	0.0941	0.2033	0.2026	0.5697	0.1901	0.2100	0.1571	0.3531	0.8115
Grain Yield/Plant	0.1300	0.1144	0.2451	0.6466	0.1781	0.1694	0.2676	0.4904	0.9101
Partial R ²	0.0035	-0.0122	0.0103	0.0437	-0.0212	0.0029	-0.0016	0.1002	0.7386

R SQUARE = 0.8642 RESIDUAL EFFECT = 0.3686

Phenotypical Path Diagram for Grain Yield/Plant g

