

## Means Table

	Plant Height cm	Days to Maturity	Peduncle Volume	Earhead Nos.	Earhead Length cm	Spikes/ M Earhead	Seeds/ Spikette M	Main Earhead	Total Biomass	Grain Yield Plant g
1 COGG -2	72.1333	108.8000	3.0667	10.6000	10.5667	14.8000	3.0800	2.9933	38.7633	22.1200
2 COGG -2*ML -267	71.8833	110.6667	3.6167	13.1333	11.1000	15.6000	3.2567	3.7700	51.3667	24.8867
3 COGG -2*PUSA -105	73.6000	110.2000	3.6200	9.2000	10.4867	15.0667	3.3367	3.2767	34.5400	18.6367
4 COGG -2*RMG -275	72.3600	109.6000	3.5467	12.8667	10.1133	15.0667	2.9300	2.8900	43.6167	23.0333
5 COGG -2*PDM -89 -	73.9933	108.2000	3.1767	10.6000	10.4200	15.3333	2.9600	3.0067	40.5667	20.0233
6 COGG -2*LGG -460	73.2400	111.1333	3.4700	13.2667	10.1200	15.8000	3.2600	3.3633	51.5100	25.9600
7 COGG -2*LGG -410	70.1533	110.4667	3.4667	12.7333	10.2400	15.7333	2.8533	3.1033	44.3800	23.8067
8 COGG -2*COGG -22	74.4800	111.5333	3.5200	9.9000	10.4333	15.6667	3.0600	3.0133	38.7333	20.2000
9 ML -267	77.1000	111.4667	2.9867	16.2000	10.6067	16.2000	2.6833	2.7067	44.2033	22.5633
10 ML -267*PUSA -105	74.0533	111.4667	2.3533	16.0000	10.3733	16.9333	3.2333	2.8167	52.6233	23.3467
11 ML -267*RMG -275	77.6667	112.6333	2.5633	13.5333	10.0000	15.5000	2.6233	2.7000	45.6900	20.0967
12 ML -267*PDM -89 -	74.7200	111.0667	2.7500	15.8667	11.3467	17.6000	2.6733	2.9000	51.8167	26.4767
13 ML -267*LGG -460	74.3733	112.1333	2.8067	12.8667	10.7933	17.3333	2.6067	2.5867	47.8733	23.8400
14 ML -267*LGG -410	73.2933	109.8667	2.8300	12.0000	10.3533	17.0000	2.4133	2.4800	36.0100	17.2100
15 ML -267*COGG -22	76.4200	113.2000	3.0367	15.0667	11.9600	17.8000	3.0567	3.2600	54.3333	27.1733
16 PUSA -105	73.3733	107.4667	1.7700	14.0333	7.2567	16.3000	2.6400	1.6800	30.2467	17.9200
17 PUSA -105*RMG -275	79.1267	108.5333	2.3233	15.5667	8.2567	16.3333	2.5067	1.9233	40.3633	19.7933
18 PUSA -105*PDM -89 -	79.4200	109.8000	2.4600	16.9333	8.4267	16.8000	2.6200	2.1433	43.8333	22.6200
19 PUSA -105*LGG -460	81.2533	111.0000	2.6367	17.6667	8.8467	17.4000	2.7567	2.3867	53.8100	26.2267
20 PUSA -105*LGG -410	74.8533	111.6667	2.1833	17.6000	7.9800	16.3333	3.1767	2.3933	46.4200	23.4833
21 PUSA -105*COGG -22	81.6167	108.6000	3.0267	18.0000	9.2167	17.6000	2.7833	2.3400	48.8867	24.6767
22 RMG -275	79.7267	106.6667	2.7200	12.6667	9.8467	14.6667	2.6900	2.4033	45.4467	22.3233
23 RMG -275*PDM -89 -	74.9200	114.8333	3.1200	12.1000	11.7500	17.3000	2.9567	3.1900	49.1367	24.3333
24 RMG -275*LGG -460	76.5067	113.4667	4.2367	12.1333	10.5433	17.8000	2.8667	2.7600	42.4367	21.3633
25 RMG -275*LGG -410	71.9200	118.5333	2.7900	14.9333	9.3400	16.4667	2.8700	2.4800	50.1900	22.0833
26 RMG -275*COGG -22	76.2267	114.2000	3.3600	13.6000	11.6667	17.6000	2.7400	2.2633	42.2900	20.5600
27 PDM -89 - 221	74.3200	113.6667	3.4633	14.0000	11.7800	20.2667	2.4400	3.2067	50.9167	25.5233
28 PDM -89 - *LGG -460	71.9067	115.2000	3.7100	15.6667	11.3600	18.9333	2.4500	3.0733	58.1633	28.0433
29 PDM -89 - *LGG -410	76.9733	115.1333	4.2733	14.7333	12.4600	20.4000	2.6467	3.2933	53.1400	26.0533
30 PDM -89 - *COGG -22	73.6467	116.2000	3.7500	13.2667	11.7267	18.6000	2.6467	3.0900	51.3867	21.3800
31 LGG -460	75.5400	113.6000	3.7467	13.3333	9.8267	17.8000	2.6600	2.4733	42.5033	21.1433
32 LGG -460*LGG -410	75.3867	116.8667	3.8500	17.2000	10.2133	18.5333	3.1100	2.9500	59.9133	29.5633
33 LGG -460*COGG -22	80.9467	112.4667	3.8367	13.4000	11.4933	19.2000	2.8467	2.9333	47.9633	26.1767
34 LGG -410	72.7533	120.1333	3.6033	11.5333	9.1600	18.2667	2.4333	2.2767	37.5700	15.6000
35 LGG -410*COGG -22	68.0400	119.8000	2.8300	13.2000	9.8733	18.4000	2.6000	2.2467	36.6167	16.7333
36 COGG -22	79.7200	111.8000	2.9800	11.0667	12.4400	20.0000	2.0367	2.0067	33.1333	14.2867
<b>Mean</b>	<b>75.2124</b>	<b>112.2796</b>	<b>3.1522</b>	<b>13.7907</b>	<b>10.3438</b>	<b>17.1232</b>	<b>2.7918</b>	<b>2.7328</b>	<b>45.5665</b>	<b>22.4794</b>
C.V.	4.5358	2.4428	14.6675	18.5775	5.7115	5.1186	10.9488	11.6357	22.4366	20.2702
F ratio	2.6218	4.2613	4.7503	2.3262	13.1558	9.2629	2.6699	6.4126	1.4558	1.8326
F Prob.	0.0003	0.0000	0.0000	0.0014	0.0000	0.0000	0.0002	0.0000	0.0913	0.0159
S.E.	1.9696	1.5836	0.2669	1.4792	0.3411	0.5060	0.1765	0.1836	5.9026	2.6308
C.D. 5%	5.5554	4.4665	0.7529	4.1720	0.9621	1.4273	0.4978	0.5178	-	7.4202
C.D. 1%	7.3756	5.9299	0.9996	5.5390	1.2773	1.8949	0.6608	0.6875	-	9.8514

## GENOTYPICAL MATRIX

	Plant Height cm	Days to Maturity	Peduncle Volume	Earhead Nos.	Earhead Length cm	Spikes/ M Earhead	Seeds/ Spikette M	Main Earhead	Total Biomass	Grain Yield Plant g
1 Plant Height cm	<b>6.2915</b>	-0.4327	-0.2476	0.5957	-0.1141	0.1990	-0.4581	-0.4911	0.1241	0.1657
2 Days to Maturity	-3.1039	<b>8.1783</b>	0.4811	-0.0380	0.3053	0.6970	-0.2430	0.0656	0.3178	-0.1679
3 Peduncle Volume	-0.3210	0.7113	<b>0.2672</b>	-0.5985	0.6488	0.3908	0.1208	0.7197	0.3043	0.2688
4 Earhead Nos.	2.5450	-0.1852	-0.5270	<b>2.9015</b>	-0.4549	0.2680	-0.1179	-0.4554	0.3620	0.3813
5 Earhead Length cm	-0.3403	1.0384	0.3989	-0.9214	<b>1.4142</b>	0.4759	-0.1515	0.6511	0.4921	0.3242
6 Spikes/Main Earhead	0.7260	2.8993	0.2939	0.6640	0.8232	<b>2.1159</b>	-0.6746	-0.0860	0.4058	0.1435
7 Seeds/Spikette of M	-0.2621	-0.1585	0.0142	-0.0458	-0.0411	-0.2238	<b>0.0520</b>	0.5936	0.4251	0.6164
8 Main Earhead Wt.	-0.5261	0.0801	0.1589	-0.3313	0.3307	-0.0535	0.0578	<b>0.1824</b>	0.7581	0.6782
9 Total Biomass	1.2404	3.6218	0.6268	2.4572	2.3320	2.3525	0.3864	1.2904	<b>15.8808</b>	0.8829
10 Grain Yield/Plant g	0.9976	-1.1529	0.3336	1.5591	0.9256	0.5011	0.3374	0.6954	8.4460	<b>5.7626</b>

ABOVE CORRELATIONS : **DIAGONAL VARIANCES** : BELOW COVARIANCES

Genetically Uniform Varieties(Var p = Var g + Var e)

### PHENOTYPICAL MATRIX

	Plant Height cm	Days to Maturity	Peduncle Volume	Earhead Nos.	Earhead Length cm	Spikes/ M Earhead	Seeds/ Spikelte M	Main Earhead	Total Biomass	Grain Yie Plant g
1 Plant Height cm	<b>17.9296</b>	-0.2679	-0.0231	0.2088	0.0302	0.1786	-0.0631	-0.1573	0.1159	0.1300
2 Days to Maturity	-4.4941	<b>15.7013</b>	0.2892	0.1063	0.2170	0.4259	-0.0924	0.1142	0.2505	0.1144
3 Peduncle Volume	-0.0677	0.7949	<b>0.4810</b>	-0.1177	0.5332	0.2946	0.1169	0.4844	0.2496	0.2451
4 Earhead Nos.	2.7200	1.2960	-0.2510	<b>9.4653</b>	-0.2001	0.2345	0.0272	-0.0366	0.7020	0.6466
5 Earhead Length cm	0.1699	1.1420	0.4910	-0.8175	<b>1.7632</b>	0.4306	-0.0054	0.5527	0.2343	0.1781
6 Spikes/Main Earhead	1.2845	2.8661	0.3470	1.2251	0.9711	<b>2.8841</b>	-0.3922	0.0179	0.2588	0.1694
7 Seeds/Spikeltee of M	-0.1019	-0.1396	0.0309	0.0319	-0.0027	-0.2540	<b>0.1454</b>	0.5272	0.1935	0.2676
8 Main Earhead Wt.	-0.3546	0.2409	0.1789	-0.0600	0.3908	0.0162	0.1071	<b>0.2835</b>	0.4351	0.4904
9 Total Biomass	5.3853	10.8910	1.8998	23.6973	3.4132	4.8219	0.8099	2.5422	<b>120.4027</b>	0.9101
10 Grain Yield/Plant g	2.8348	2.3337	0.8756	10.2459	1.2183	1.4820	0.5256	1.3448	51.4350	<b>26.5253</b>

ABOVE CORRELATIONS : **DIAGONAL VARIANCES** : BELOW COVARIANCES

### ENVIRONMENTAL MATRIX

	Plant Height cm	Days to Maturity	Peduncle Volume	Earhead Nos.	Earhead Length cm	Spikes/ M Earhead	Seeds/ Spikelte M	Main Earhead	Total Biomass	Grain Yie Plant g
1 Plant Height cm	<b>11.6381</b>	-0.1486	0.1606	0.0200	0.2532	0.1868	0.1536	0.1580	0.1188	0.1182
2 Days to Maturity	-1.3902	<b>7.5230</b>	0.0659	0.2108	0.0639	-0.0138	0.0226	0.1844	0.2592	0.2790
3 Peduncle Volume	0.2533	0.0836	<b>0.2138</b>	0.2330	0.3373	0.1310	0.1179	0.1359	0.2693	0.2573
4 Earhead Nos.	0.1750	1.4812	0.2760	<b>6.5637</b>	0.0686	0.2499	0.0992	0.3330	0.8109	0.7441
5 Earhead Length cm	0.5102	0.1035	0.0921	0.1039	<b>0.3490</b>	0.2856	0.2125	0.3198	0.1790	0.1087
6 Spikes/Main Earhead	0.5585	-0.0332	0.0531	0.5612	0.1479	<b>0.7682</b>	-0.1129	0.2499	0.2756	0.2456
7 Seeds/Spikeltee of M	0.1602	0.0189	0.0167	0.0777	0.0384	-0.0302	<b>0.0934</b>	0.5066	0.1355	0.1351
8 Main Earhead Wt.	0.1714	0.1608	0.0200	0.2713	0.0601	0.0697	0.0492	<b>0.1011</b>	0.3851	0.4482
9 Total Biomass	4.1449	7.2691	1.2730	21.2401	1.0812	2.4694	0.4236	1.2518	<b>104.5219</b>	0.9228
10 Grain Yield/Plant g	1.8373	3.4866	0.5420	8.6868	0.2927	0.9809	0.1881	0.6495	42.9890	<b>20.7628</b>

ABOVE CORRELATIONS : **DIAGONAL VARIANCES** : BELOW COVARIANCES

### ANOVA for Plant Height cm

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	26.479341	13.239670	1.1376	0.3264
Treatments	35	1067.942107	30.512632	2.6218	0.0003
Error	70	814.666526	11.638093		
General Mean		75.2124	( 1.9696)	95%	99%
S.E.Diff.		2.7854	Critical Difference	5.5554	7.3756
S.E.Diff from Mean		1.9421	Critical Difference	3.8733	5.1424
Var Environmental		11.6381	ECV	4.5358 %	
Var Genotypical		6.2915	GCV	3.3349 %	
Var Phenotypical		17.9296	PCV	5.6298 %	
h <sup>2</sup> (Broad Sense)		0.3509			
Genetic Advancement		3.0608	3.9226		
Gen.Adv as % of Mean		4.0696 %	5.2154 %		(selection intensity at 5% & 1%)

### ANOVA for Days to Maturity

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	28.019074	14.009537	1.8622	0.1629
Treatments	35	1122.028519	32.057958	4.2613	0.0000
Error	70	526.607593	7.522966		
General Mean		112.2796	( 1.5836)	95% 99%	
S.E.Diff.		2.2395	Critical Difference	4.4665 5.9299	
S.E.Diff from Mean		1.5614	Critical Difference	3.1141 4.1344	
Var Environmental		7.5230	ECV	2.4428 %	
Var Genotypical		8.1783	GCV	2.5470 %	
Var Phenotypical		15.7013	PCV	3.5291 %	
h <sup>2</sup> (Broad Sense)		0.5209			
Genetic Advancement		4.2517	5.4488		
Gen.Adv as % of Mean		3.7867 %	4.8529 %	(selection intensity at 5% & 1%)	

### ANOVA for Peduncle Volume

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	0.399022	0.199511	0.9333	0.3981
Treatments	35	35.541333	1.015467	4.7503	0.0000
Error	70	14.963911	0.213770		
General Mean		3.1522	( 0.2669)	95% 99%	
S.E.Diff.		0.3775	Critical Difference	0.7529 0.9996	
S.E.Diff from Mean		0.2632	Critical Difference	0.5249 0.6969	
Var Environmental		0.2138	ECV	14.6675 %	
Var Genotypical		0.2672	GCV	16.3994 %	
Var Phenotypical		0.4810	PCV	22.0017 %	
h <sup>2</sup> (Broad Sense)		0.5556			
Genetic Advancement		0.7937	1.0172		
Gen.Adv as % of Mean		25.1806 %	32.2702 %	(selection intensity at 5% & 1%)	

### ANOVA for Earhead Nos.

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	1.417963	0.708981	0.1080	0.8978
Treatments	35	534.390741	15.268307	2.3262	0.0014
Error	70	459.462037	6.563743		
General Mean		13.7907	( 1.4792)	95% 99%	
S.E.Diff.		2.0918	Critical Difference	4.1720 5.5390	
S.E.Diff from Mean		1.4585	Critical Difference	2.9088 3.8619	
Var Environmental		6.5637	ECV	18.5775 %	
Var Genotypical		2.9015	GCV	12.3517 %	
Var Phenotypical		9.4653	PCV	22.3089 %	
h <sup>2</sup> (Broad Sense)		0.3065			
Genetic Advancement		1.9428	2.4898		
Gen.Adv as % of Mean		14.0877 %	18.0541 %	(selection intensity at 5% & 1%)	

### ANOVA for Earhead Length cm

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	5.908780	2.954390	8.4647	0.0005
Treatments	35	160.709277	4.591694	13.1558	0.0000
Error	70	24.431687	0.349024		
General Mean		10.3438	( 0.3411)	95% 99%	
S.E.Diff.		0.4824	Critical Difference	0.9621 1.2773	
S.E.Diff from Mean		0.3363	Critical Difference	0.6708 0.8905	
Var Environmental		0.3490	ECV	5.7115 %	
Var Genotypical		1.4142	GCV	11.4969 %	
Var Phenotypical		1.7632	PCV	12.8374 %	
h <sup>2</sup> (Broad Sense)		0.8021			
Genetic Advancement		2.1940	2.8117		
Gen.Adv as % of Mean		21.2104 %	27.1822 %	(selection intensity at 5% & 1%)	

### ANOVA for Spikes/Main Earhead

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	6.385741	3.192870	4.1563	0.0197
Treatments	35	249.052130	7.115775	9.2629	0.0000
Error	70	53.774259	0.768204		
General Mean		17.1231	( 0.5060)	95% 99%	
S.E.Diff.		0.7156	Critical Difference	1.4273 1.8949	
S.E.Diff from Mean		0.4990	Critical Difference	0.9951 1.3212	
Var Environmental		0.7682	ECV	5.1186 %	
Var Genotypical		2.1159	GCV	8.4949 %	
Var Phenotypical		2.8841	PCV	9.9179 %	
h <sup>2</sup> (Broad Sense)		0.7336			
Genetic Advancement		2.5666	3.2892		
Gen.Adv as % of Mean		14.9888 %	19.2090 %	(selection intensity at 5% & 1%)	

### ANOVA for Seeds/Spikeltee of M

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	11.382724	5.691362	60.9160	0.0000
Treatments	35	8.730766	0.249450	2.6699	0.0002
Error	70	6.540076	0.093430		
General Mean		2.7918	( 0.1765)	95% 99%	
S.E.Diff.		0.2496	Critical Difference	0.4978 0.6608	
S.E.Diff from Mean		0.1740	Critical Difference	0.3470 0.4607	
Var Environmental		0.0934	ECV	10.9487 %	
Var Genotypical		0.0520	GCV	8.1687 %	
Var Phenotypical		0.1454	PCV	13.6603 %	
h <sup>2</sup> (Broad Sense)		0.3576			
Genetic Advancement		0.2809	0.3600		
Gen.Adv as % of Mean		10.0627 %	12.8959 %	(selection intensity at 5% & 1%)	

### ANOVA for Main Earhead Wt.

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	12.745417	6.372708	63.0273	0.0000
Treatments	35	22.693233	0.648378	6.4126	0.0000
Error	70	7.077717	0.101110		
General Mean		2.7328	( 0.1836)	95% 99%	
S.E.Diff.		0.2596	Critical Difference	0.5178 0.6875	
S.E.Diff from Mean		0.1810	Critical Difference	0.3610 0.4793	
Var Environmental		0.1011	ECV	11.6357 %	
Var Genotypical		0.1824	GCV	15.6291 %	
Var Phenotypical		0.2835	PCV	19.4849 %	
h <sup>2</sup> (Broad Sense)		0.6434			
Genetic Advancement		0.7057	0.9044		
Gen.Adv as % of Mean		25.8250 %	33.0961 %		(selection intensity at 5% & 1%)

### ANOVA for Total Biomass

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	172.598457	86.299229	0.8257	0.4422
Treatments	35	5325.749196	152.164263	1.4558	0.0913
Error	70	7316.529609	104.521852		
General Mean		45.5665	( 5.9026)	95% 99%	
S.E.Diff.		8.3475	Critical Difference	16.6485 22.1034	
S.E.Diff from Mean		5.8200	Critical Difference	11.6076 15.4108	
Var Environmental		104.5219	ECV	22.4367 %	
Var Genotypical		15.8808	GCV	8.7456 %	
Var Phenotypical		120.4027	PCV	24.0809 %	
h <sup>2</sup> (Broad Sense)		0.1319			
Genetic Advancement		2.9814	3.8208		
Gen.Adv as % of Mean		6.5430 %	8.3852 %		(selection intensity at 5% & 1%)

### ANOVA for Grain Yield/Plant g

Source of Var.	df	Sum of Squares	Mean Squares	f value	Prob.
Replicate	2	415.439939	207.719969	10.0044	0.0002
Treatments	35	1331.765433	38.050441	1.8326	0.0159
Error	70	1453.394394	20.762777		
General Mean		22.4794	( 2.6308)	95% 99%	
S.E.Diff.		3.7205	Critical Difference	7.4202 9.8514	
S.E.Diff from Mean		2.5940	Critical Difference	5.1735 6.8686	
Var Environmental		20.7628	ECV	20.2702 %	
Var Genotypical		5.7626	GCV	10.6788 %	
Var Phenotypical		26.5253	PCV	22.9110 %	
h <sup>2</sup> (Broad Sense)		0.2172			
Genetic Advancement		2.3049	2.9539		
Gen.Adv as % of Mean		10.2534 %	13.1402 %		(selection intensity at 5% & 1%)

### Analysis of Covariance Table

Character i * Character j	Replicate	Treatment	Error
	Mean Squares	Mean Squares	Mean Squares
Plant Height cm*Days to Maturity	3.710231	-10.701887 ***	-1.390245
Plant Height cm*Peduncle Volume	-0.624589	-0.709806 ***	0.253313
Plant Height cm*Earhead Nos.	2.816704 ***	7.809916 ***	0.174970
Plant Height cm*Earhead Length cm	2.740326 **	-0.510575	0.510210
Plant Height cm*Spikes/Main Earhea	6.097380 ***	2.736619 ***	0.558480
Plant Height cm*Seeds/Spikeltee of	4.589721 ***	-0.626029 ***	0.160167
Plant Height cm*Main Earhead Wt.	8.356764 ***	-1.406789 ***	0.171424
Plant Height cm*Total Biomass	3.098469	7.866118 *	4.144907
Plant Height cm*Grain Yield/Plant g	28.124381 ***	4.829961 ***	1.837256



Days to Maturity*Peduncle Volume	-1.660111 ***	2.217387 ***	0.083594
Days to Maturity*Earhead Nos.	-0.403657	0.925608	1.481152
Days to Maturity*Earhead Length cm	6.332245 ***	3.218810 ***	0.103536
Days to Maturity*Spikes/Main Earhea	3.942685 ***	8.664598 ***	-0.033220
Days to Maturity*Seeds/Spikeltee of	8.578644 ***	-0.456547 ***	0.018910
Days to Maturity*Main Earhead Wt.	6.115556 ***	0.401098 ***	0.160808
Days to Maturity*Total Biomass	34.183144 *	18.134617 ***	7.269120
Days to Maturity*Grain Yield/Plant g	51.690458 ***	0.027956	3.486577
Peduncle Volume*Earhead Nos.	0.003722	-1.305060 ***	0.275970
Peduncle Volume*Earhead Length cm	-0.766406 ***	1.288783 ***	0.092144
Peduncle Volume*Spikes/Main Earhea	-0.543444 ***	0.934746 ***	0.053103
Peduncle Volume*Seeds/Spikeltee of	-1.051528 ***	0.059391 ***	0.016665
Peduncle Volume*Main Earhead Wt.	-0.826333 ***	0.496707 ***	0.019975
Peduncle Volume*Total Biomass	-3.960817	3.153421 ***	1.272966
Peduncle Volume*Grain Yield/Plant g	-6.343039 ***	1.542862 ***	0.542039
Earhead Nos.*Earhead Length cm	0.071176	-2.660396 ***	0.103890
Earhead Nos.*Spikes/Main Earhea	1.091713	2.553042 ***	0.561189
Earhead Nos.*Seeds/Spikeltee of	0.305671 *	-0.059731	0.077657
Earhead Nos.*Main Earhead Wt.	1.430764 **	-0.722587 ***	0.271269
Earhead Nos.*Total Biomass	-2.405204	28.611595	21.240101
Earhead Nos.*Grain Yield/Plant g	1.953708	13.364060	8.686770
Earhead Length cm*Spikes/Main Earhea	2.220449 ***	2.617605 ***	0.147863
Earhead Length cm*Seeds/Spikeltee of	4.078578 ***	-0.084932 **	0.038366
Earhead Length cm*Main Earhead Wt.	3.348660 ***	1.052264 ***	0.060079
Earhead Length cm*Total Biomass	14.934063 ***	8.077066 ***	1.081214
Earhead Length cm*Grain Yield/Plant g	24.616093 ***	3.069477 ***	0.292721
Spikes/Main Earhea*Seeds/Spikeltee of	3.369829 ***	-0.701592 ***	-0.030247
Spikes/Main Earhea*Main Earhead Wt.	4.498611 ***	-0.090694	0.069659
Spikes/Main Earhea*Total Biomass	7.165273	9.526908 ***	2.469406
Spikes/Main Earhea*Grain Yield/Plant g	20.498236 ***	2.484183 ***	0.980893
Seeds/Spikeltee of *Main Earhead Wt.	5.018799 ***	0.222677 ***	0.049237
Seeds/Spikeltee of *Total Biomass	19.805836 ***	1.582667 ***	0.423557
Seeds/Spikeltee of *Grain Yield/Plant g	34.381903 ***	1.200421 ***	0.188142
Main Earhead Wt.*Total Biomass	11.649007 ***	5.123041 ***	1.251792
Main Earhead Wt.*Grain Yield/Plant g	30.498521 ***	2.735560 ***	0.649468
Total Biomass*Grain Yield/Plant g	119.111810	68.327042	42.988964

### Genetic Parameters (Summary)

	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	Grain Yield/ Plant g
Var Environmental	11.638	7.523	0.214	6.564	0.349	0.768	0.093	0.101	104.522	20.763
ECV	4.536	2.443	14.668	18.578	5.711	5.119	10.949	11.636	22.437	20.270
Var Genotypical	6.292	8.178	0.267	2.902	1.414	2.116	0.052	0.182	15.881	5.763
GCV	3.335	2.547	16.399	12.352	11.497	8.495	8.169	15.629	8.746	10.679
Var Phenotypical	17.930	15.701	0.481	9.465	1.763	2.884	0.145	0.284	120.403	26.525
PCV	5.630	3.529	22.002	22.309	12.837	9.918	13.660	19.485	24.081	22.911
h <sup>2</sup> (Broad Sense)	0.351	0.521	0.556	0.307	0.802	0.734	0.358	0.643	0.132	0.217
Genetic Advancement 5%	3.061	4.252	0.794	1.943	2.194	2.567	0.281	0.706	2.981	2.305
Genetic Advancement 1%	3.923	5.449	1.017	2.490	2.812	3.289	0.360	0.904	3.821	2.954
Gen.Adv as % of Mean 5%	4.070	3.787	25.181	14.088	21.210	14.989	10.063	25.825	6.543	10.253
Gen.Adv as % of Mean 1%	5.215	4.853	32.270	18.054	27.182	19.209	12.896	33.096	8.385	13.140