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Assessment of G x E interactions and stability of baby corn hybrids for yield and yield contributing traits

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Abstract
The present study consisted of total Seventy-five baby corn crosses, along with 28 parents and two checks, these were evaluated across three locations in a randomized block design with three locations to assess the genotype × environment interaction and stability for twelve traits. Significant genotypic differences were observed for all traits. Pooled analysis variances indicated significant G × E interaction for all character with linear and non-linear components contributing to trait expression. Significant genotype × environment (linear) effects were recorded for flowering traits, plant height, baby corn length, baby corn girth and cob yield per plant. Stability analysis identified in the crosses BML-5161 × BML-6, QPM-69-2 × CM-131, BML-5016 × CM-131, BML-5204-5-2-1 × CM-131, BML-5347-2 × CM-131 and QPM-57-1 × CM-131 as stable and widely adapted hybrids for cob yield per plant. The hybrids BML-5121 × BML-6, BML-5219 × CM-131 and CM-119 × CM-131 performed better under favourable conditions.

Keywords: Baby corn, Eberhart & Russell, G x E interactions and stability analysis

Introduction
Maize is one of the world's most important annual cereal crops, cultivated on more than 200 million hectares and contributing nearly 1.24 billion tonnes to global food production in 2023-2024 (FAOSTAT, 2024). Maize breeding programmes aim to develop genotypes with high yield potential and broad adaptation. The rising demand for vegetables from both human and livestock populations has increased the need for enhanced production of baby corn. To meet these demands, newly developed inbred lines, hybrids, and open-pollinated varieties are routinely evaluated through multi-environment trials (METs).

Newly developed genotypes are typically evaluated through multi-environment trials (METs) to assess their yield potential, stability and suitability for cultivation across different regions. Evaluating the performance of hybrid parental inbred lines is also crucial, as their productivity directly influences seed production efficiency and the success of commercial hybrids. METs additionally help identify testing locations that best represent the target production environments.

Therefore, this study aims to investigate the genotype-by-environment interaction (GEI) effects in maize breeding to enhance the selection and development of genotypes with high yield potential and stability across different environments. Specifically, it seeks to understand the cob or grain yield performance of hybrid parental inbred lines, which is crucial for the successful production of commercial hybrids, and to identify experimental sites that best represent target environments for optimized breeding strategies

Materials and Methods
The present study was carried out to collect information on stability performance of hybrids and their parents in baby corn (*Zea mays* L.) over three locations. The experimental material consisted of 105 genotypes, including 75 F_1 hybrids, 28 parents and two checks (DMR-1142 and DMR-1144). The parental lines included CM-104, CM-115, CM-119, CM-201, BML-5016, BML-5118-3, BML-5160, BML-5161, BML-5219, BML-5222, BML-5342, QPM-57-1, BML-5063-1, BML-5204-3, BML-5121, BML-5212, BML-5347-2, QPM-33, QPM-63-1, BML-5204-5-2-1, BML-5207, BML-5204-1-8, QPM-49, QPM-69-2 and QPM-62, while the testers were

BML-6, BML-13 and CM-131. These parents were crossed using a Line × Tester mating design to generate 75 F_1 hybrids. The study was conducted during the kharif season across three environments representing diverse agro-ecological conditions: College Farm, Rajendranagar, Hyderabad; Regional Agricultural Research Station (RARS), Jagityal, Karimnagar district; and Agricultural Research Station (ARS), Kampasagar, Nalgonda district of Telangana. The experiment at each location was laid out in a Randomized Block Design (RBD) with three replications. Each genotype was planted in a single row of 4 m length with a spacing of 60 × 20 cm (row-to-row × plant-to-plant). Recommended agronomic and plant protection practices were followed uniformly across locations to ensure a healthy crop stand. A fertilizer dose of 120:80:60 kg N:P:K ha^{-1} was applied, of which the full dose of phosphorus and potassium and half of the nitrogen were applied as basal, while the remaining nitrogen was top-dressed in two equal splits at knee-height and tasseling stages. Observations were recorded on all genotypes for the characters under study following standard procedures across all environments. The pooled analysis of variance over locations was carried out to assess genotype × environment interactions and stability performance, and stability parameters were estimated using standard statistical models appropriate for multi-environment evaluation.

Table 1: List of the maize inbred lines & crosses used in the study

Parent & Crosses	CM-104 X BML-6	BML-5342 X CM-131	BML-5204-1-8 X BML-13
Parents	CM-104 X BML-13	QPM-57-1 X BML-6	BML-5204-1-8 X CM-131
Lines	CM-104 X CM-131	QPM-57-1 X BML-13	QPM-49 X BML-6
CM-104	CM-115 X BML-6	QPM-57-1 X CM-131	QPM-49 X BML-13
CM-115	CM-115 X BML-13	BML-5063-1 X BML-6	QPM-49 X CM-131
CM-119	CM-115 X CM-131	BML-5063-1 X BML-13	QPM-69-2 X BML-6
CM-201	CM-119 X BML-6	BML-5063-1 X CM-131	QPM-69-2 X BML-13
BML-5016	CM-119 X BML-13	BML-5204 - 3 X BML-6	QPM-69-2 X CM-131
BML-5118-3	CM-119 X CM-131	BML-5204 - 3 X BML-13	QPM-62 X BML-6
BML-5160	CM-201 X BML-6	BML-5204 - 3 X CM-131	QPM-62 X BML-13
BML-5161	CM-201 X BML-13	BML-5121 X BML-6	QPM-62 X CM-131
BML-5219	CM-201 X CM-131	BML-5121 X BML-13	DMR-1142
BML-5222	BML-5016 X BML-6	BML-5121 X CM-131	DMR-1144
BML-5342	BML-5016 X BML-13	BML-5212 X BML-6	
QPM-57-1	BML-5016 X CM-131	BML-5212 X BML-13	
BML-5063-1	BML-5118-3 X BML-6	BML-5212 X CM-131	
BML-5204 - 3	BML-5118-3 X BML-13	BML-5347-2 X BML-6	
BML-5121	BML-5118-3 X CM-131	BML-5347-2 X BML-13	
BML-5212	BML-5160 X BML-6	BML-5347-2 X CM-131	
BML-5347-2	BML-5160 X BML-13	QPM-33 X BML-6	
QPM-33	BML-5160 X CM-131	QPM-33 X BML-13	
QPM-63-1	BML-5161 X BML-6	QPM-33 X CM-131	
BML-5204-5-2-1	BML-5161 X BML-13	QPM-63-1 X BML-6	
BML-5207	BML-5161 X CM-131	QPM-63-1 X BML-13	
BML-5204-1-8	BML-5219 X BML-6	QPM-63-1 X CM-131	
QPM-49	BML-5219 X BML-13	BML-5204-5-2-1 X BML-6	
QPM-69-2	BML-5219 X CM-131	BML-5204-5-2-1 X BML-13	
QPM-62	BML-5222 X BML-6	BML-5204-5-2-1 X CM-131	
Testers	BML-5222 X BML-13	BML-5207 X BML-6	
BML-6	BML-5222 X CM-131	BML-5207 X BML-13	
BML-13	BML-5342 X BML-6	BML-5207 X CM-131	
CM-131	BML-5342 X BML-13	BML-5204-1-8 X BML-6	

Results and Discussion

The pooled analysis of variance for 12 characters over three locations *viz.*, Rajendranagar, Jagityal and Kampasagar revealed significant differences among genotypes except baby corn girth and TSS (Table -1). Genotype x Environment interaction was significant for all the characters. Environment (linear) was significant for all the characters except baby corn girth. The genotype x environment (linear) interaction was significant for days to 50 per cent tasseling, days to 50 per cent silking, plant height, baby corn length, baby corn girth and cob yield per plant. Pooled deviations were significant for days to 50 per cent tasseling, days to 50 per cent silking, baby corn length, baby corn girth, cob weight, number of cobs per plant, cob yield per plant, cob yield, green fodder yield and TSS. The G X E interactions were significant for the 12 characters.

Days to tasseling is an important phrenological trait. Among lines, seven were unstable. BML-5222, CM-201, BML-5118-3, QPM-62 were early maturing with average stability, whereas BML-5160, BML-5161 were early and adapted to favourable environments (bi > 1). Testers BML-13, CM-131 showed early flowering with average stability, while BML-6 suited unfavourable environments (bi < 1). Among hybrids, 27 were unstable. QPM-62 × BML-6, BML-5121 × CM-131, QPM-69-2 × CM-131, QPM-63-1 × CM-131, QPM-33 × BML-13, QPM-49 × CM-131 were early, stable, and suitable for wide adaptability. BML-5207 × BML-6 adapted to favourable, and

BML-5207 × CM-131 to unfavourable environments. Days to Silking time is critical for synchrony with tasseling. Four lines were unstable. BML-5222, CM-201, BML-5118-3, QPM-62 were early and stable; BML-5160 favored better environments. Testers BML-13, CM-131 exhibited early silking with average stability. Among hybrids, 27 were stable. BML-5222 × CM-131, QPM-62 × BML-6, QPM-69-2 × CM-131, BML-5121 × CM-131, QPM-63-1 × CM-131, BML-5207 × BML-6, CM-104 × CM-131 were early, widely adaptable. BML-5342 × BML-13 adapted to favourable, while BML-5204-1-8 × BML-6/×BML-13 suited unfavourable environments.

Plant height influences biomass and light interception. All lines were stable. BML-5212, BML-5121 were tallest with average stability; QPM-62 favored better environments. Testers CM-131, BML-6 were stable. Among hybrids, nine were unstable. BML-5212 × CM-131, BML-5212 × BML-6, BML-5121 × CM-131 showed highest plant height and wide adaptability. CM-119 × BML-13 favored better environments; BML-5204-1-8 × BML-6 suited poor environments. Ear height affects lodging resistance and cob harvest. Nine lines were unstable; BML-5121, BML-5063-1, QPM-62, QPM-57-1, QPM-33 were stable. Tester BML-6 had average stability. Among hybrids, 32 were unstable. BML-5121 × BML-13, BML-5121 × BML-6, QPM-57-1 × CM-131 were widely adaptable. QPM-69-2 × BML-6 favored favourable, BML-5347-2 × BML-6 unfavourable environments.

Baby corn length is a key marketable trait. Five lines were unstable. BML-5212 recorded highest length with average stability; BML-5016 favored better environments. Tester CM-131 was stable. Among hybrids, 11 were unstable. BML-5212 × CM-131 favored better environments; BML-5121 × BML-6, BML-5121 × BML-13, BML-5212 × BML-13, BML-5347-2 × BML-6 were widely adaptable; BML-5219 × BML-13, BML-5063-1 × BML-13 suited poor environments. Girth determines cob size and yield. BML-5219, BML-5204-1-8 lines were unstable. BML-5342, BML-5063-1, CM-104, BML-5204-5-2-1 were stable; QPM-57-1 favorable. Testers CM-131, BML-13, BML-6 had average stability. Among hybrids, 10 were unstable. CM-119 × CM-131, BML-5207 × BML-6, BML-5222 × BML-6 were widely adaptable; BML-5212 × BML-13 suited poor environments.

Cob weight is directly related to yield. Eleven lines were unstable. BML-5212, BML-5219, QPM-63-1 stable; BML-5347-2 suited poor environments. Testers BML-13 stable, CM-131 favorable. Among hybrids, 30 unstable. BML-5212 × BML-6, BML-5121 × CM-131, BML-5212 × CM-131 widely adaptable; BML-5121 × BML-6 favourable. Number of cobs per plant contributes to total yield. Eleven lines unstable. QPM-63-1 stable; BML-5063-1, BML-524-3, BML-5118-3 suited poor environments. Tester BML-6 stable. Among hybrids, 62 unstable. QPM-57-1 × CM-131, CM-115 × CM-131, BML-5219 × BML-6, QPM-57-1 × BML-13, BML-5063-1 × CM-131 widely adaptable; QPM-63-1 × BML-13 favorable.

Cob yield per plant reflects productivity. Nine lines unstable. BML-5212, QPM-63-1, BML-5204-3, BML-5161, BML-5219 stable. Tester BML-13 poor environment, CM-131 stable. Among hybrids, 38 unstable. BML-5121 × BML-6, BML-5016 × CM-131, QPM-57-1 × CM-131, BML-5161 × BML-6, CM-119 × BML-13 widely adaptable; BML-5204-3 × CM-131 favorable; QPM-62 × BML-6 unfavourable. Cob Yield per Hectare for Lines: 16 unstable. BML-5212, BML-5219, BML-5347-2 stable. Tester BML-13 poor, CM-131 stable. Hybrids: 19 unstable. BML-5212 × CM-131, BML-5212 × BML-6, BML-5121 × BML-6 widely adaptable; BML-5219 × BML-13 favourable. Green fodder yield for Lines: three unstable. BML-5212, BML-5219, BML-5016 stable. Tester CM-131 poor, BML-6 stable. Hybrids: 32 unstable. BML-5212 × CM-131, BML-5212 × BML-6, BML-5212 × BML-13 widely adaptable; BML-5204-3 × BML-13 favorable.

TSS content influences baby corn quality. Eight lines unstable. BML-5212 highest; BML-5222, BML-5347-2, CM-104, CM-119, QPM-33 stable. Tester CM-131 poor; BML-6 average stability.

Table 2: Analysis of variance for cob yield and other traits for stability in Baby Corn.

Source of variation	d.f	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Ear height (cm)	Baby corn length (cm)	Baby corn girth (cm)	Cob weight (g)	d.f	Cobs per plant	Cob yield per plant (g)	Cob yield (Kg/Ha)	Green fodder yield (g)	TSS
Genotypes	104	6.92 **	6.94**	1699.67**	490.15**	2.04**	0.01	2.12**	104	0.17 *	34.44 **	49724.53**	12200.76 **	0.77
Environments	2	128.85 **	160.23**	20692.64 **	6285.04**	4.20 **	0.00	29.31 **	2	1.14 **	435.35**	925822.38 **	224428.66 **	55.09 **
Geno.x Envi.	208	2.04 *	2.06 *	99.97**	77.85**	0.17**	0.01**	0.51**	208	0.10**	10.34 **	5671.87**	963.60**	0.65**
Envi. + (Geno.x Envi.)	210	3.25 **	3.57 **	296.09 **	136.97	0.21 **	0.01	0.79*	210	0.11	14.39**	14435.20**	3091.84 **	1.17**
Environments (Linear.)	1	257.70**	320.45**	41385.29**	12570.07**	8.39**	0.00	58.62**	1	2.27**	870.71 **	1851644.75 **	448857.31**	110.18**
Geno.x Envi.(Linear.)	104	2.56 **	2.66 **	145.66**	43.98	0.20**	0.01 *	0.45	104	0.08	14.11 **	5222.67	601.76	0.63
Pooled Deviation	105	1.52**	1.45**	53.77	110.66	0.13 **	0.01**	0.56 **	105	0.11 **	6.51 **	6062.76 **	1312.82 **	0.67**
Pooled Error	624	0.43	0.42	44.33	6.43	0.07	0.004	0.12	624	0.002	0.76	1232.55	287.53	0.10
Total	314	4.47	4.68	760.97	253.94	0.81	0.01	1.23	314	0.13	21.03	26123.39	6108.81	1.04

Table 3: Mean performance and stability parameters of parents and crosses for twelve (12) yield & other traits in baby corn

Parent/ Cross	Days to 50% tasseling			Days to 50% silking			Plant height			Ear height			Baby corn length			Baby corn girth		
Parents	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**
Lines																		
CM-104	56.77	0.83	2.57**	59.55	0.91	2.43*	147.40	0.54	-36.98	70.35	0.66	12.84	6.81	0.96	-0.00	1.33	4.44	0.01
CM-115	54.22	1.76	1.30*	56.66	1.74	1.17	128.50	0.43	-10.14	61.46	1.16	-5.40	6.41	2.51	0.23*	1.26	0.00	0.01
CM-119	54.11	0.44	-0.43	56.00	0.92	-0.40	144.20	0.05	105.81	64.85	0.48	74.02**	7.66	1.98	0.04	1.28	14.11	-0.00
CM-201	52.55	0.58	-0.33	55.00	0.53	0.24	131.50	0.42**	-44.28	57.97	1.41	94.60**	7.10	1.92*	-0.06	1.29	0.49	-0.00
BML-5016	54.88	0.62	-0.43	57.00	0.06	0.43	163.50	0.44	-30.56	65.47	2.06	158.57**	8.18	1.83**	-0.06	1.22	19.24	0.00
BML-5118-3	52.66	-0.31	-0.02	54.66	-0.28	-0.02	149.30	0.28	-42.68	70.07	0.96	30.87 *	7.56	1.45	-0.03	1.21	22.40	0.00
BML-5160	53.00	2.90*	-0.42	55.11	2.75*	-0.43	154.40	0.47*	-44.26	68.98	0.20	7.31	7.94	1.08	0.13	1.24	11.84	-0.00
BML-5161	53.77	2.79*	-0.45	56.22	2.91*	-0.43	157.10	0.76	-42.24	71.68	0.38	21.28*	8.05	1.33	0.14	1.28	3.94	-0.00
BML-5219	53.88	2.13	-0.03	56.11	2.22	0.09	172.10	0.55	-42.61	73.81	0.71	55.55**	8.83	-0.66	0.22*	1.36	12.92	0.00
BML-5222	48.22	0.86	-0.42	50.44	0.58	-0.07	143.00	0.90	-41.40	63.88	0.84	-6.21	6.71	0.34	0.18	1.30	-8.48	0.01
BML-5342	54.66	1.60	13.47 **	56.44	1.57	9.87**	150.60	0.84	-41.83	66.46	1.44	-4.94	7.46	1.12	0.00	1.38	-9.27	-0.00
QPM-57-1	54.44	1.09	2.21 *	56.33	1.28	2.49*	169.70	0.87	-40.86	72.35	1.49	12.42	8.05	1.89	-0.05	1.35	16.18**	-0.00
BML-5063-1	54.22	1.10	-0.25	56.55	1.45	-0.12	164.00	0.60	90.50	73.00	0.60	16.27	8.17	1.47	-0.05	1.33	30.78	-0.00
BML-5204 - 3	54.00	-0.34	0.80	56.00	-0.03	-0.22	149.90	1.04	-43.17	67.67	1.40	12.86	7.77	1.08	-0.06	1.30	5.23	-0.00
BML-5121	54.77	1.44	-0.19	56.44	1.54	-0.32	183.70	0.81	1.38	79.43	1.53	-3.17	9.76	2.94	0.30*	1.26	26.64	0.00
BML-5212	54.00	0.75	-0.30	56.00	1.42	-0.41	187.50	0.57	71.82	78.47	1.34	38.01 **	9.75	2.53	-0.04	1.27	28.421	0.00
BML-5347-2	55.22	-0.28	1.42*	56.88	0.02	0.07	159.90	1.37	-42.83	71.62	0.96	2.35	8.58	2.47	0.01	1.29	15.888	-0.00
QPM-33	55.33	1.14	1.00	57.00	1.42	-0.41	163.40	0.94	-43.71	72.13	0.71	10.06	8.23	-0.64	0.32*	1.28	-4.046**	-0.00
QPM-63-1	54.33	2.14	-0.15	56.66	2.38	-0.27	162.30	1.15	-26.07	69.63	1.26	15.90	8.13	1.35	0.28*	1.25	24.07*	-0.00
BML-5204-5-2-1	54.33	1.92	4.67 **	56.66	2.43	4.43**	149.40	1.24	-20.14	65.23	0.75	12.84	7.27	4.23	0.03	1.32	7.69	0.01
BML-5207	54.00	1.20	1.55*	56.55	1.20	0.11	156.40	1.10	-8.77	67.36	1.22	52.73**	7.74	0.79	-0.02	1.26	17.36	0.03**
BML-5204-1-8	53.44	2.03	-0.34	55.44	2.32	0.00	148.20	0.84	21.39	67.82	0.67	24.74 *	7.51	3.12	-0.02	1.27	6.51	0.02*
QPM-49	54.55	1.93*	-0.44	56.55	1.98	-0.37	160.20	1.25	-36.73	69.80	1.52	-5.45	8.00	-0.25	-0.06	1.28	1.48	-0.00
QPM-69-2	54.22	2.41	-0.24	56.66	2.56	-0.32	160.60	1.10	11.44	71.32	1.60	-3.95	7.93	1.77	-0.05	1.27	9.67	-0.00
QPM-62	52.77	0.89	0.32	55.22	1.66	0.27	162.40	0.64*	-44.24	72.87	1.18	-1.59	8.05	0.68	-0.05	1.22	13.22	0.00
Testers																		
BML-6	56.66	-0.51*	-0.44	58.66	0.18	0.12	143.50	0.18	-17.52	63.70	2.11	0.20	7.46	-0.33	0.13	1.24	-7.99	0.00
BML-13	53.44	2.59	0.03	55.44	2.54	-0.29	134.10	0.02	8.305	58.16	1.96	26.59*	7.48	-0.78	-0.04	1.31	6.71	-0.00
CM-131	54.33	0.55	-0.31	56.44	1.08	-0.38	151.80	0.03	-29.54	68.93	1.91	55.73**	8.08	-0.31	-0.05	1.33	17.76	0.00

Parent/ Cross	Cob weight			Number of cobs per plant			Cob Yield Per plant			Cob yield Kg/ha			Green fodder yield			TSS		
Parents	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**	**Mean**	**bi**	**S^2di**
Lines																		
CM-104	6.49	-0.89	0.45*	1.66	1.16	0.19**	10.76	0.18	8.49**	589.80	1.30	4355.32*	287.80	1.19	-92.94	9.02	2.61*	-0.09
CM-115	5.81	0.15	0.74**	1.90	-0.44	0.07**	11.13	-0.00	10.14**	512.60	1.41	4724.79*	234.00	0.98	4.51	8.28	0.94	-0.07
CM-119	7.12	0.59	0.12	2.00	0.00**	-0.00**	14.22	0.19	0.60	638.90	1.55	5952.44*	327.40	1.75*	-288.61	8.91	0.91	-0.08
CM-201	6.73	-1.93	1.99 **	1.65	1.02	0.17**	11.09	-0.41	13.45**	502.40	1.02	2426.97	249.30	0.89	573.52	9.45	1.55	0.11
BML-5016	7.02	1.83	1.20 **	1.87	1.57	0.01*	13.33	1.42	6.50**	723.10	1.83	4757.38*	372.70	2.08	-53.77	7.98	0.90	0.08
BML-5118-3	6.60	-0.20	0.48*	2.01	-0.16*	-0.00	13.29	-0.28	1.66	645.60	1.36	5475.70*	318.60	1.07	-287.60	8.79	0.93	0.58*
BML-5160	6.98	0.86	0.17	2.00	0.00**	-0.00	13.98	0.53	-0.24	691.00	1.68	9553.63**	333.90	0.97	-225.29	8.61	0.69	0.24
BML-5161	7.26	1.25	-0.11	2.01	0.14	-0.00	14.61	0.71	-0.55	704.60	1.74	13150.98**	343.10	0.95	-222.28	8.70	0.30	0.37*
BML-5219	7.68	1.78	0.04	1.89	1.40	0.01*	14.60	1.30	1.11	770.60	1.81	2097.79	401.20	1.47	595.92	8.15	0.53	0.03
BML-5222	5.78	0.34	0.88**	1.88	1.71	0.00	10.85	0.44	-0.00	458.90	0.97	-913.86	210.40	0.88	-276.81	9.14	1.53	0.00
BML-5342	6.85	0.70*	-0.11	1.56	2.89	0.11**	10.75	1.51	0.86	646.10	1.86	16276.36**	300.30	0.49*	-288.99	8.82	0.94	-0.07
QPM-57-1	7.25	0.88	-0.05	1.99	-0.00*	-0.00	14.48	0.40	-0.07	666.10	2.04	10869.58**	332.60	0.74	-272.68	8.63	0.83	0.21
BML-5063-1	6.87	0.60	0.31	2.01	-0.17*	-0.00	13.81	0.15	1.91	645.80	2.09	13888.89**	323.20	0.60	-209.39	8.50	0.31*	-0.10
BML-5204 - 3	7.26	0.36	-0.04	2.01	-0.17*	-0.00	14.62	0.09	-0.22	644.10	2.08	24401.01**	293.60	0.67	299.22	8.34	0.26	-0.08
BML-5121	7.82	2.05	1.53 **	2.00	0.003*	-0.00	15.66	1.24	2.32*	859.20	1.34	6543.31*	436.70	1.10	913.19*	7.94	0.53*	-0.10
BML-5212	8.40	1.44	-0.00	1.87	1.57	0.01*	15.86	1.23	1.85	871.30	1.30	3317.95	449.20	1.05	101.99	8.01	0.96	-0.10
BML-5347-2	7.44	-0.13*	-0.11	1.89	-0.27	0.06**	14.07	0.09	3.14 *	722.30	1.21	2105.43	341.20	1.46	-280.51	9.12	1.99	0.04
QPM-33	7.43	-0.25	0.25	1.77	1.44	0.02**	13.18	0.46	1.44	690.70	1.26	2622.02	360.00	1.42	997.69*	8.89	1.24	-0.07
QPM-63-1	7.68	-0.04	-0.06	2.02	-0.02	-0.00	15.54	-0.06	-0.36	703.30	1.73	21173.60**	340.70	1.07	-285.94	8.72	0.89	0.16
BML-5204-5-2-1	6.32	-0.12	0.22	2.02	-0.02	-0.00	12.79	-0.15	0.83	578.80	1.21	-110.18	275.10	1.01	-267.67	7.52	-1.70	1.50**
BML-5207	7.28	-0.00	0.00	2.00	0.00**	-0.00	14.58	-0.05	-0.30	674.30	2.21	27571.52**	329.00	0.52	-270.75	9.19	1.31	1.69**
BML-5204-1-8	7.00	-0.55	1.29 **	1.87	1.89	0.01*	13.02	0.12	-0.56	645.90	1.69	16753.15**	263.80	0.96	917.23*	7.80	-0.95	0.65 **
QPM-49	7.65	-0.59	1.28**	2.00	0.00*	-0.00	15.32	-0.51	3.36*	677.40	1.83	18632.58**	310.40	0.32	-174.55	8.36	-0.03	1.55**
QPM-69-2	7.31	0.25	4.42 **	2.00	0.00**	-0.00	14.62	-0.23	17.10**	665.70	1.81	1126.09	312.00	0.61	40.00	8.53	-0.62	0.94 **
QPM-62	7.41	0.99	2.32 **	2.00	0.00*	-0.00	14.83	0.23	10.83**	671.20	1.91	507.95	295.80	0.35	-205.01	8.82	-0.27	3.61**
Testers																		
BML-6	6.96	0.54	1.14 **	1.34	0.14	-0.00	9.37	0.12	1.96	689.20	1.22	1799.72	281.60	0.84	-257.19	8.64	0.74	1.01 **
BML-13	8.05	0.26	0.16	1.87	-1.27	0.03**	15.10	-0.64*	-0.67	788.40	0.85	661.23	229.40	1.01	49.93	8.21	-0.23	0.21
CM-131	7.45	0.01*	-0.11	1.88	1.72	0.00 *	14.09	0.52	1.395	742.30	0.83	-384.86	302.70	0.85	-191.02	8.84	0.79	0.07

Crosses	Days to 50% tasseling			Days to 50% silking			Plant height			Ear Height			Baby corn length			Baby corn girth		
	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di
CM-104 X BML-6	53.11	1.59	1.39*	55.44	1.43	1.35*	180.60	1.12	-34.90	81.74	1.21	14.09	8.61	2.92	0.18	1.29	25.55	0.00
CM-104 X BML-13	52.22	0.34*	-0.44	54.00	-0.21	-0.36	173.20	1.38	-41.08	76.74	1.25	21.00*	8.39	2.52	-0.06	1.33	22.59	-0.00
CM-104 X CM-131	51.77	0.69	-0.43	53.44	0.79	0.35	182.50	0.73	-34.44	82.23	1.44	-4.80	8.67	2.13	-0.01	1.29	22.89	0.02*
CM-115 X BML-6	52.44	0.00	0.95	53.88	-0.54	0.71	172.70	0.72	-32.11	82.63	1.41	0.02	7.84	1.79	-0.01	1.24	-16.67	-0.00
CM-115 X BML-13	53.00	0.51	-0.44	55.11	0.40	-0.42	166.20	0.73	-36.08	77.23	0.97	3.17	7.76	1.69	-0.04	1.47	67.10	0.03**
CM-115 X CM-131	53.44	0.69	-0.43	55.33	0.71	-0.43	181.20	0.83	-36.55	81.75	1.03	12.90	7.84	2.37	-0.03	1.24	-16.48	-0.00
CM-119 X BML-6	53.22	-0.37	0.16	55.22	-0.33	0.17	198.10	2.28	56.02	86.30	1.43	-2.92	8.94	3.04	0.45 **	1.32	-9.86	-0.00
CM-119 X BML-13	52.77	-0.86*	-0.42	54.88	-0.86**	-0.44	194.80	2.37*	-42.87	84.70	1.64	88.73**	8.57	3.09	-0.06	1.34	-3.65	-0.00
CM-119 X CM-131	52.33	0.20	0.11	54.33	0.18	0.12	194.40	1.55	-37.20	88.37	1.48	29.30*	8.85	1.49	0.20*	1.38	4.14	-0.00
CM-201 X BML-6	51.77	0.89	0.32	53.77	1.01	0.94	174.30	0.81	30.73	78.95	1.10	-6.38	8.18	0.76	-0.06	1.33	11.94	0.00
CM-201 X BML-13	52.88	-0.59	3.64 **	54.66	-0.35	2.06*	171.60	1.28	78.76	78.13	0.53	4.64	8.11	-0.13	0.38*	1.30	4.83	-0.00
CM-201 X CM-131	53.88	1.23	4.10**	55.66	1.03	3.1**	179.20	0.84	75.81	78.72	0.51*	-6.31	8.43	0.02	0.01	1.34	-10.65	-0.00
BML-5016 X BML-6	53.88	1.78	2.66 **	55.55	1.13	2.37*	204.70	2.38	-15.07	87.76	1.81	13.03	8.93	-0.53	0.48 **	1.27	4.63	-0.00
BML-5016 X BML-13	53.44	1.06	3.96 **	55.33	1.21	6.57**	195.80	2.71	171.05*	87.16	1.49	20.45 *	9.11	-1.88	-0.02	1.30	2.56	0.00
BML-5016 X CM-131	54.77	1.06	3.96**	56.88	1.09	4.16**	202.90	2.19	95.22	87.62	2.14*	-5.87	9.01	-1.70	-0.04	1.22	15.78	-0.00
BML-5118-3 X BML-6	54.11	2.55	-0.40	56.22	2.44*	-0.41	180.80	1.10	-22.50	85.93	1.06	1.34	8.14	-0.51	-0.05	1.21	0.69	0.00
BML-5118-3 X BML-13	54.33	2.55	0.46	56.44	2.43	0.60	175.40	1.00	211.55 *	79.73	0.43	55.22**	8.42	-1.23	-0.06	1.23	12.03	0.00
BML-5118-3 X CM-131	54.55	3.10	2.70**	56.33	2.46	2.58 **	184.40	0.57	171.096*	84.84	-0.08	-2.71	8.36	0.45	-0.02	1.21	11.84	-0.00
BML-5160 X BML-6	53.88	3.41	0.80	56.00	3.21	0.98	190.20	1.38	79.06	89.84	0.44	17.18	8.76	0.94	-0.05	1.21	14.70	0.00
BML-5160 X BML-13	53.33	4.06	2.51 *	54.66	3.17	2.32*	186.90	1.96	39.59	85.67	0.75	164.72**	8.50	1.63	0.00	1.19	-9.47	0.00
BML-5160 X CM-131	53.33	1.64	5.54**	55.11	1.62	5.81**	188.30	1.39	-35.24	87.24	1.32	18.63*	8.65	1.53	0.31*	1.26	-8.19	0.00
BML-5161 X BML-6	52.11	-0.14	0.01	54.00	-0.03	-0.22	189.30	1.47	-34.44	87.66	1.36	32.56*	8.65	1.65	-0.06	1.23	-0.39	-0.00
BML-5161 X BML-13	52.33	1.03	-0.41	53.77	1.11	-0.39	182.00	1.69	-38.08	87.66	1.05	1.74	8.74	-1.26	0.09	1.28	8.68	-0.00
BML-5161 X CM-131	52.55	-0.00	0.95	54.55	0.24	0.56	186.60	1.21	3.30	87.06	0.54	52.46**	8.94	-1.44	0.03	1.29	6.21	0.00
BML-5219 X BML-6	52.22	-0.13	-0.20	54.33	0.28	-0.02	200.00	1.41	22.38	89.02	0.42	26.73*	8.71	-3.22	0.50 **	1.34	-0.49	0.00
BML-5219 X BML-13	52.55	1.13	-0.45	55.00	0.99	0.08	198.40	2.07	-35.61	89.82	1.08	65.30**	8.46	-3.34*	-0.06	1.41	19.83	0.00
BML-5219 X CM-131	53.00	1.23	0.44	54.77	0.79	0.35	205.50	2.11	124.29	92.25	1.28	311.91**	8.74	-2.76	0.16	1.34	19.63	-0.00
BML-5222 X BML-6	48.11	1.33	3.22**	50.88	1.84	2.12*	173.50	1.40**	-44.29	79.46	1.56	117.97**	7.54	1.20	-0.02	1.36	-10.06	-0.00
BML-5222 X BML-13	48.00	2.23	2.14*	50.22	2.30	2.46*	169.30	1.12	-6.62	80.97	1.24	273.71**	7.52	0.27	-0.06	1.33	-13.52	-0.00
BML-5222 X CM-131	47.88	2.35	4.23**	49.88	1.80	0.60	175.30	1.23	-10.60	84.80	2.16	15.98	7.94	1.52	0.04	1.23	-24.07	0.00
BML-5342 X BML-6	53.11	1.28	0.04	55.33	1.88*	-0.44	180.80	0.92	-30.35	84.47	0.90	47.80**	8.55	1.30	-0.04	1.21	-20.42	0.05**
BML-5342 X BML-13	53.00	2.38	-0.38	55.22	2.19**	-0.44	175.30	0.81	10.95	83.93	0.31	-3.80	8.49	1.97	0.06	1.19	-9.77	-0.00
BML-5342 X CM-131	51.55	1.52	2.13*	53.22	0.91	2.43*	182.20	0.28	-17.43	86.53	-0.04	-4.69	8.51	2.16	0.08	1.25	-7.40	0.00
QPM-57-1 X BML-6	54.44	2.03	-0.34	55.88	1.98	-0.37	198.20	0.75	-40.18	95.27	1.16	3.91	8.86	-1.28	-0.03	1.25	1.48	-0.00
QPM-57-1 X BML-13	54.33	2.75	2.47*	56.55	2.34	1.09	191.50	1.27	-16.92	87.00	0.62	252.26**	8.81	-2.70	-0.01	1.27	-10.36	-0.00
QPM-57-1 X CM-131	53.22	2.24	0.12	55.33	1.95	0.53	203.20	0.92	-33.14	97.50	0.15	11.50	8.74	-0.14	0.08	1.28	-6.11	-0.00
BML-5063-1 X BML-6	53.66	1.38	0.40	55.55	1.09	0.44	192.60	0.50	128.07 *	95.74	0.24	-1.00	8.60	0.76	0.10	1.31	-0.88	-0.00
BML-5063-1 X BML-13	53.66	1.55	-0.36	56.00	0.89	0.01	186.40	0.24	138.32*	93.03	0.40	50.69**	8.45	-0.99*	-0.06	1.29	-25.65	-0.00
BML-5063-1 X CM-131	53.00	2.14	-0.15	54.88	1.80	0.60	195.90	0.49	28.50	94.15	0.48	14.17	8.66	-0.33	0.12	1.29	-25.95	-0.00
BML-5204 - 3 X BML-6	52.55	0.56	7.06**	54.44	0.57	5.73**	175.60	0.61	-25.87	83.25	0.87	7.02	8.33	3.04	-0.02	1.27	-5.62	-0.00
BML-5204 - 3 X BML-13	51.88	0.06	-0.39	54.00	0.71	-0.43	175.20	0.78	-38.31	77.86	0.61	36.65 **	7.84	1.53	-0.03	1.27	-38.78	-0.00
BML-5204 - 3 X CM-131	52.55	0.89	-0.36	54.22	1.02	-0.44	181.10	0.78	-36.93	80.82	0.57	13.08	7.96	2.50	0.09	1.29	-14.60	-0.00
BML-5121 X BML-6	51.22	2.04	1.83*	53.22	1.83	1.77 *	242.70	0.51	-11.82	110.02	0.43	-5.90	10.84	1.28	0.02	1.28	-8.68	0.00
BML-5121 X BML-13	51.22	2.04	1.83*	53.22	1.83	1.77 *	234.90	0.51	280.40 **	110.95	0.91	7.68	10.56	0.07	0.17	1.27	4.83	-0.00
BML-5121 X CM-131	51.00	0.83	-0.14	53.11	0.65	-0.33	254.10	0.25	-19.86	116.85	0.45	171.85**	10.78	3.62	0.45**	1.25	-11.94*	-0.004
BML-5212 X BML-6	51.22	0.21	2.17 *	53.11	0.541	3.62 **	254.60	0.88	-0.24	112.98	0.37	140.55**	11.21	1.12	0.47**	1.25	-6.90	0.002
BML-5212 X BML-13	52.33	0.90	1.76*	54.22	0.66	1.85 *	239.70	1.74	3.27	141.72	1.75	6731.50**	10.21	1.77	0.07	1.32	-20.03*	-0.00
BML-5212 X CM-131	51.77	1.83	0.70	54.22	1.236	-0.36	258.40	0.22	-35.86	114.03	0.31	225.33**	11.47	1.58*	-0.06	1.33	-7.89	-0.00
BML-5347-2 X BML-6	52.33	0.86	0.59	54.33	0.78	0.58	195.30	0.90	-31.66	95.56	-0.01**	-6.38	9.35	2.80	0.00	1.33	18.15	-0.00
BML-5347-2 X BML-13	51.66	0.34	0.80	53.55	0.41	1.33*	186.00	1.11	-37.48	91.83	-0.06	17.15	8.87	2.44	-0.04	1.34	14.80	0.00
BML-5347-2 X CM-131	51.77	0.28	1.42*	53.77	0.258	1.42*	194.30	1.10	23.02	94.06	-0.15	-0.05	9.24	2.47	-0.04	1.36	0.69	0.01*
QPM-33 X BML-6	52.66	0.42	3.77**	54.55	0.01	5.18**	198.60	1.43	-32.44	92.03	0.07	-3.61	8.92	1.38	-0.02	1.29	-14.90	-0.00
QPM-33 X BML-13	51.44	0.20	-0.26	53.88	-0.05	1.62*	187.10	1.72	-42.05	88.62	0.30	18.13	8.54	0.04	0.02	1.28	-6.21	-0.00
QPM-33 X CM-131	51.66	-0.24	-0.37	53.77	-0.27	-0.15	196.50	2.10	-6.45	93.23	1.03	163.36**	8.64	-0.37	0.00	1.30	-2.56	-0.00
QPM-63-1 X BML-6	52.88	0.45	1.33*	55.00	0.35	2.06 *	194.80	1.01	-25.59	95.77	0.54	41.29 **	8.68	2.15	-0.06	1.31	4.44	-0.00
QPM-63-1 X BML-13	51.88	-0.41	-0.35	54.00	-0.42	-0.11	181.40	1.63	94.75	88.82	0.38	313.66**	8.32	0.21	-0.03	1.30	-0.78	0.01 *
QPM-63-1 X CM-131	51.22	-0.24	0.36	53.22	-0.43	-0.06	195.00	1.23	-42.20	92.01	0.55	19.58*	8.62	2.26	0.10	1.28	10.65	0.02*
BML-5204-5-2-1 X BML-6	52.33	1.58	-0.42	53.88	1.23	-0.36	178.90	0.99	-44.28	81.61	0.93	-1.19	7.90	2.86	0.03	1.33	2.36	-0.0
BML-5204-5-2-1 X BML-13	52.22	0.69	0.66	54.00	0.74	-0.14	171.60	0.99	-36.74	81.98	0.73	82.49**	7.90	2.66	-0.06	1.27	5.23	0.02*
BML-5204-5-2-1 X CM-131	52.33	0.10	1.51 *	54.88	0.69	3.48**	181.90	0.79	-43.29	84.11	1.11	-4.84	7.73	0.86	0.02	1.27	10.26	0.00
BML-5207 X BML-6	51.77	0.17*	-0.45	53.33	0.21	-0.36	184.70	-0.10	-40.61	88.63	0.42	53.07**	8.53	-0.11	0.35*	1.37	2.17	0.00
BML-5207 X BML-13	52.00	-0.40	1.80*	54.00	0.10	1.52 *	178.50	-0.05	7.42	84.91	0.30	-4.94	8.07	-1.33	0.14	1.34	-42.23	0.00
BML-5207 X CM-131	51.88	-0.44*	-0.43	54.22	-0.36	-0.34	188.50	0.34	-39.31	89.72	0.24	0.02	8.50	-0.06	0.53 **	1.30	-26.84	0.0
BML-5204-1-8 X BML-6	52.22	-0.69*	-0.43	54.33	-0.46*	-0.43	168.70	-0.02*	-43.96	77.36	0.62	30.13*	7.96	3.07	0.21 *	1.31	-16.67	-0.0
BML-5204-1-8 X BML-13	52.44	-0.34*	-0.44	54.33	-0.46*	-0.43	164.80	0.48	-16.21	77.76	0.46	-6.19	8.06	2.86	-0.05	1.35	-22.10	-0.0
BML-5204-1-8 X CM-131	51.66	1.97	2.65**	54.33	1.38	7.28**	170.00	0.41	49.46	79.44	0.62	3.06	8.41	3.23	-0.05	1.31	-8.98	-0.0
QPM-49 X BML-6	52.44	0.87	4.42**	54.44	0.97	1.64*	191.30	1.872	121.75	84.94	1.33	19.44 *	8.66	2.67	-0.06	1.35	-11.250	0.01 *
QPM-49 X BML-13	52.33	0.86	0.59	54.11	1.08	-0.38	186.60	1.818	51.59	86.03	1.35	9.07	8.23	1.13	-0.03	1.33	7.79	0.00
QPM-49 X CM-131	51.55	1.45	0.00	53.77	1.15	0.03	194.10	1.64	111.57	87.77	1.85	5.41	8.47	0.93	-0.06	1.27	-25.85	0.00
QPM-69-2 X BML-6	51.66	0.55	-0.31	54.00	0.96	-0.37	187.90	1.29	263.66**	88.20	2.09*	-6.32	8.53	-0.71	-0.01	1.32	-27.63	-0.00
QPM-69-2 X BML-13	51.55	-0.10	0.48	53.77	0.22	0.36	181.70	2.16**	-44.29	84.03	1.71	230.29**	8.05	-0.90	0.06	1.31	-13.71	0.00
QPM-69-2 X CM-131	51.11	0.41	-0.35	52.88	0.27	-0.15	188.00	1.46	208.18 *	87.06	2.12	26.93*	8.55	1.39	0.04	1.34	-3.35	-0.00
QPM-62 X BML-6	50.55	0.27	0.55	52.77	0.30	1.13	185.60	0.83	135.17*	86.75	2.11	6.08	8.49	2.91	0.16	1.28	17.66	0.01*

QPM-62 X BML-13	52.11	1.09	2.21*	54.33	1.07	1.59 *	179.80	1.33	10.51	82.54	2.27	17.18	8.23	2.43	-0.06	1.30	2.36	0.000
QPM-62 X CM-131	52.66	-0.42	3.77**	54.66	-0.13	3.05**	185.70	0.89	36.19	84.88	1.87	5.41	8.65	2.97	0.00	1.28	-13.02	0.03**
DMR-1142	53.44	1.33	3.22**	55.44	1.19	3.28**	167.10	0.08*	-43.77	76.32	1.14	19.04*	8.33	-0.26	0.25*	1.40	7.20	-0.00
DMR-1144	52.77	-0.24	3.91**	55.11	0.01	3.18**	170.70	0.17	-31.73	74.14	1.62	161.16**	8.27	-1.32	0.14	1.43	12.63	0.00
Population mean	52.81			54.85			180.60			83.07			8.43			1.29		
CD at 5%	0.33			0.44			12.24			7.89			0.48			0.11		

Crosses	Cob weight			Number of cobs per plant			Cob yield per plant			Cob yield Kg/ha			Green fodder yield			TSS		
	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di	Mean	bi	S^2di
CM-104 X BML-6	7.36	1.29	0.24	2.00	0.00*	-0.00	14.74	0.74	-0.19	777.10	0.56	-1073.84	358.40	1.14	1733.74**	8.00	0.47	-0.04
CM-104 X BML-13	7.26	0.48	0.58*	2.11	0.27	0.07**	15.38	0.21	11.29**	791.60	0.56	1973.17	336.20	1.23	895.02 *	8.06	0.60	-0.09
CM-104 X CM-131	7.35	1.19	2.12**	2.33	0.00*	-0.00	17.16	0.99	7.60**	805.10	0.87	1830.97	364.70	1.26	1018.09*	8.06	0.65	0.07
CM-115 X BML-6	6.70	-0.89	0.32	2.11	0.27	0.07**	14.24	-0.50	12.30**	741.70	-0.03	1518.08	320.40	1.56	822.00	8.22	0.22	-0.06
CM-115 X BML-13	7.25	0.24	-0.10	2.11	0.27	0.06**	15.31	-0.02	3.31*	749.30	0.06	-950.93	308.20	1.76	3180.11 **	8.32	0.14	-0.09
CM-115 X CM-131	7.21	-0.05	0.06	2.33	3.16	0.00	16.85	1.17	2.31 *	758.90	0.23	-928.99	318.10	1.60	3734.59**	8.85	0.68	-0.10
CM-119 X BML-6	8.00	0.26	-0.10	2.22	-0.27	0.07**	17.78	0.31	5.41**	832.60	-0.07	-159.72	443.10	0.78	239.07	8.74	0.51	0.08
CM-119 X BML-13	8.12	1.27	-0.11	2.44	0.27	0.07**	19.79	0.59	1.91	871.80	0.50	3062.19	437.30	0.72	1690.35 **	8.35	0.56	0.06
CM-119 X CM-131	7.94	1.68	-0.06	2.43	1.61	0.02**	19.44	1.90	-0.24	829.00	0.69	-4.66	426.60	1.18	2062.67 **	8.66	0.39	0.75 **
CM-201 X BML-6	6.63	0.67	1.76**	2.22	-3.44	0.03**	14.48	-0.18	-0.65	663.30	1.09	14525.32**	308.20	0.25	14405.46**	9.43	1.55	-0.06
CM-201 X BML-13	6.95	0.20	-0.01	2.33	0.00**	-0.00**	16.24	0.18	-0.42	739.30	0.33	-248.45	292.10	0.86	5899.67**	9.81	2.38**	-0.10
CM-201 X CM-131	6.60	0.54	0.97**	2.44	0.27	0.07**	16.21	0.37	15.54 **	669.90	1.05	9629.25 **	285.70	0.67	3651.39**	9.33	1.68	0.07
BML-5016 X BML-6	8.18	0.16	-0.03	2.44	3.44	0.03**	19.95	1.16	4.657**	882.10	0.56	1058.00	443.70	1.19	-203.28	8.64	1.03	0.02
BML-5016 X BML-13	8.52	1.56	-0.02	2.33	1.17	0.19**	20.00	2.02	7.44**	917.90	1.63	803.54	444.10	1.29	80.98	9.08	1.09	0.33*
BML-5016 X CM-131	8.31	0.55	0.21	2.55	-0.27	0.06**	21.23	0.68	0.33	872.60	0.44	-68.33	449.10	1.15	-197.34	9.32	1.50	0.01
BML-5118-3 X BML-6	8.48	1.00	-0.11	2.32	1.85	0.14**	19.72	0.88	10.44 **	902.20	0.37	-921.81	386.30	0.61	4217.05 **	9.71	1.18	0.31*
BML-5118-3 X BML-13	7.91	0.50	0.24	2.10	1.30	0.02**	16.67	1.03	-0.61	851.9	0.48	-696.86	368.80	0.60	3867.76**	10.20	2.01	0.08
BML-5118-3 X CM-131	8.18	0.90	-0.09	2.11	1.44	0.02**	17.34	1.27	-0.20	883.80	0.50*	-1220.51	379.60	0.90	2095.97 **	9.47	1.65	-0.00
BML-5160 X BML-6	8.26	1.63	0.72**	2.33	-1.99	0.13**	19.11	0.85	3.86*	890.70	0.75	-422.24	392.90	0.84	275.53	9.61	2.44	0.53*
BML-5160 X BML-13	8.43	1.17	0.19	2.23	3.03	0.12**	18.97	2.42	-0.13	892.30	0.84	-681.53	380.60	0.91	3454.02**	9.24	2.17	-0.09
BML-5160 X CM-131	8.21	1.17	0.62*	2.23	1.55	0.00	18.44	1.29	6.43**	902.80	0.81	-233.88	402.20	0.65	-225.94	9.55	2.06	-0.09
BML-5161 X BML-6	8.37	1.27	0.33*	2.44	-1.40	0.00*	20.39	0.49	-0.62	912.40	0.99	782.78	412.40	1.07	-67.17	8.95	0.82	-0.05
BML-5161 X BML-13	8.27	1.16	0.40*	2.23	3.03	0.12**	18.65	2.41	-0.55	912.10	1.33	4538.49*	392.90	1.45	3300.19 **	9.42	1.45	0.51*
BML-5161 X CM-131	8.01	0.78	0.38*	2.33	4.34	0.25**	18.85	2.83	0.02	869.80	0.62	-494.83	418.80	1.18	439.07	9.23	2.04	1.31**
BML-5219 X BML-6	8.25	2.75	0.98**	2.33	-3.17	0.00	18.90	0.47	-0.29	919.30	1.95	-368.51	449.80	1.54	-97.98	8.96	1.15	0.14
BML-5219 X BML-13	8.76	2.54	0.17	2.13	1.41	0.03**	18.87	2.34	0.09	952.30	1.53*	-1232.14	446.60	1.30	-202.68	9.06	0.95	-0.09
BML-5219 X CM-131	8.80	2.56	0.63 *	2.22	2.89	0.11**	19.91	3.32	-0.07	956.40	1.62	-1144.04	458.30	1.39	-216.00	8.69	0.71	0.28
BML-5222 X BML-6	6.65	1.73	0.18	2.00	0.00**	-0.00**	13.30	0.78	2.13	709.30	0.82	8658.71**	245.70	1.31	-255.00	9.38	1.81	2.30**
BML-5222 X BML-13	6.50	2.29*	-0.11	2.12	-1.89	0.01*	13.69	0.72	3.11*	673.70	1.34	5443.30*	243.20	1.16	-282.32	9.37	1.32	0.23
BML-5222 X CM-131	6.52	0.71	-0.05	2.33	1.17	0.18**	15.31	1.12	8.34**	677.10	0.99	2570.48	256.90	1.28	-258.86	9.73	2.30	2.36**
BML-5342 X BML-6	7.58	1.66	-0.11	2.32	1.02	0.17**	17.74	1.83	8.28 **	809.60	1.09	-295.69	334.20	1.22	170.41	9.73	3.30	0.74 **
BML-5342 X BML-13	7.66	1.32	-0.07	2.33	-2.00	0.13**	17.83	0.49	11.11**	828.90	1.00	-270.86	346.20	0.92	111.15	8.47	0.76	1.08**
BML-5342 X CM-131	7.75	1.11	-0.11	2.22	2.89	0.11**	17.37	2.09	1.89	828.80	0.83	-856.11	354.20	1.01	435.86	8.79	1.15	0.23
QPM-57-1 X BML-6	8.16	2.51	1.05**	2.10	1.61	0.02**	17.34	2.39	-0.47	888.70	1.48	-603.72	415.20	0.05	459.54	9.10	0.63	1.90**
QPM-57-1 X BML-13	8.44	2.82	1.08**	2.33	3.48	0.00	20.09	3.38	2.67*	888.30	1.73*	-1212.02	392.90	0.33	-142.63	8.34	0.00	0.86**
QPM-57-1 X CM-131	8.55	1.75	0.44*	2.43	-1.87	0.00	20.69	0.59	-0.59	918.00	1.11	-1217.44	412.70	0.42	355.86	8.10	0.29	-0.09
BML-5063-1 X BML-6	7.84	0.54	-0.03	2.22	0.55	0.28**	17.42	-0.02	19.40**	874.90	0.48**	-1231.43	378.70	0.99	3888.44**	8.38	0.19	-0.09
BML-5063-1 X BML-13	7.80	1.48	1.17**	2.22	0.23	0.29**	17.41	0.45	34.96 **	861.00	1.00	-999.26	371.10	0.67	2064.03**	8.51	1.04	1.13**
BML-5063-1 X CM-131	7.95	1.38	0.74 **	2.33	3.16	0.00	18.77	2.24	3.76*	875.20	0.96	-1078.64	379.30	0.52	532.05	8.60	1.00	0.35*
BML-5204 - 3 X BML-6	7.86	1.97	-0.08	2.12	0.42	0.06**	16.65	0.94	1.45	840.90	1.64	119.32	364.10	0.81	758.14	8.96	1.53	0.62**
BML-5204 - 3 X BML-13	7.36	2.49	0.37 *	2.22	0.55	0.29**	16.33	1.05	17.51 **	831.70	1.67	1746.54	341.60	1.59*	-288.57	9.21	2.23	1.13**
BML-5204 - 3 X CM-131	7.32	2.66	1.92**	2.33	4.34	0.25**	17.60	4.00*	-0.72	849.00	1.46	-249.96	347.00	1.57	-257.92	9.11	1.60	0.67 **
BML-5121 X BML-6	9.87	2.76*	-0.10	2.77	4.61	0.05**	27.93	4.57	2.02	1091.60	1.22	3208.82	500.70	0.76	3372.04**	8.87	1.81	2.00**
BML-5121 X BML-13	10.20	2.36	0.41*	2.33	4.34	0.25**	24.28	4.24	23.40**	1111.30	0.98	15179.55**	470.20	0.95	2530.05 **	9.13	1.72	1.10**
BML-5121 X CM-131	10.14	2.30	0.12	2.55	7.23	0.71**	26.70	6.31	37.84**	1090.40	1.19	4415.098*	470.20	0.95	2530.05 **	9.13	1.72	1.10**
BML-5212 X BML-6	10.27	1.43	0.02	2.45	3.59	0.03**	25.32	2.33	3.39*	1136.60	0.57	-243.59	502.70	1.10	-250.49	9.48	1.05	0.79**
BML-5212 X BML-13	9.88	1.82	1.00**	2.77	5.78	0.45**	27.97	4.88	42.09**	1092.00	0.65	15543.63**	492.70	0.87	163.71	9.19	1.99	-0.05
BML-5212 X CM-131	9.99	0.63	0.11	2.54	7.40	0.70**	25.68	5.03	23.92**	1139.20	0.65	630.85	517.20	0.65	-254.94	9.47	1.69	-0.00
BML-5347-2 X BML-6	8.54	0.59	0.44*	2.00	0.00**	-0.00**	17.11	0.16	2.07	942.40	0.21	18047.18**	395.40	1.57	2873.64**	9.11	2.01	0.03
BML-5347-2 X BML-13	8.60	-0.53	0.53*	2.22	-1.44	0.02**	19.13	-1.21	0.19	938.70	0.21	15604.02**	390.60	1.55	2234.09 **	8.45	1.52	-0.03
BML-5347-2 X CM-131	8.25	0.73	0.68*	2.32	1.85	0.14**	19.03	0.60	0.95	945.10	0.30	13792.60**	421.60	1.12	-289.38	8.78	0.84	0.04
QPM-33 X BML-6	8.02	1.78	0.46*	2.11	0.27	0.06**	16.80	0.60	-0.67	897.30	0.42	16410.76**	415.00	0.65	-267.43	8.86	0.12	1.29**
QPM-33 X BML-13	7.81	0.99	2.18**	2.33	0.82	0.64**	17.75	-0.19	2.48*	877.20	-0.11	34064.58**	407.80	0.85	-204.40	8.62	0.45	0.77 **
QPM-33 X CM-131	8.00	1.18	1.66**	2.34	2.14	0.12**	18.60	0.96	-0.74	876.30	0.62	27544.18**	410.20	0.67	64.80	8.83	0.90	0.44*
QPM-63-1 X BML-6	8.20	1.68	-0.10	2.44	2.27	0.40**	19.95	1.15	19.77**	873.00	1.18	2257.49	410.80	0.48	80.64	9.29	0.92	0.96 **
QPM-63-1 X BML-13	7.85	1.81	-0.10	2.33	0.00**	-0.00	18.36	1.06	0.25	870.90	1.09	577.98	408.90	0.26	-214.94	9.19	0.83	0.16
QPM-63-1 X CM-131	7.78	2.14	-0.09	2.44	2.27	0.40**	18.95	1.39	14.23**	877.10	0.89	-85.08	413.00	0.52	-281.79	9.32	0.72	2.54**
BML-5204-5-2-1 X BML-6	7.76	1.78	-0.01	2.21	3.06	0.10**	17.44	2.50	5.41 **	832.40	0.82	11731.85 **	362.70	0.93	5298.17**	9.56	1.49	3.00**
BML-5204-5-2-1 X BML-13	7.57	1.38	0.04	2.31	3.19	0.00	17.61	1.97	-0.45	813.90	0.89	15774.00**	334.20	1.14	1631.66*	8.96	0.44	2.13**
BML-5204-5-2-1 X CM-131	7.76	1.93	0.40*	2.54	0.40	0.30**	19.50	0.61	0.68	824.70	0.78	16157.92**	341.60	1.16	-76.25	8.43	-0.05	1.68**
BML-5207 X BML-6	8.16	1.19	-0.08	2.32	-2.99	0.00	18.84	-0.62	1.75	904.90	0.95	-1082.47	363.40	0.98	210.60	8.10	-0.09	0.61**
BML-5207 X BML-13	8.18	1.64	0.45 *	2.34	0.65	0.63**	19.21	0.35	52.54 **	905.60	0.74	-1180.33	332.80	1.21	-32.78	9.02	0.37	2.61**
BML-5207 X CM-131	8.07	-0.26	0.16	2.11	1.44	0.02**	17.03	0.67	-0.51	878.30	0.27	-573.05	374.70	0.90	1198.79*	8.92	0.23	0.60**
BML-5204-1-8 X BML-6	8.02	0.32	-0.01	2.21	3.06	0.10**	17.78	1.66	2.37*	838.60	0.47	2493.49	342.10	1.13	573.48	9.07	0.88	2.50***
BML-5204-1-8 X BML-13	7.38	1.32	1.37 **	2.44	-0.89	0.49**	17.69	-0.49	-0.48	805.90	0.58	19565.35**	338.90	1.42	2388.10**	8.72	0.78	-0.09
BML-5204-1-8 X CM-131	7.82	0.57	0.48*	2.11	1.44	0.02**	16.54	0.91	4.62**	830.00	0.57	11029.54**	365.00	1.02	2902.10**	9.31	1.29	-0.04

QPM-49 X BML-6	8.27	1.40*	-0.11	2.23	-0.45	0.07**	18.53	0.94	7.61**	840.30	0.74	552.04	414.30	1.02	160.43	9.47	1.74	0.22
QPM-49 X BML-13	7.92	1.31	-0.05	2.33	0.82	0.64**	18.29	0.12	23.04 **	855.10	0.62	989.82	405.10	1.07	-33.86	8.64	1.42	-0.03
QPM-49 X CM-131	8.08	1.00	-0.09	2.21	0.40	0.30**	17.76	0.04	11.56**	868.70	0.80	1440.95	398.30	1.65	5262.50**	8.26	0.78	-0.01
QPM-69-2 X BML-6	8.00	0.79	0.08	2.11	0.27	0.07**	16.88	0.29	6.59**	874.90	0.78	108.81	369.30	1.45	778.17	8.75	1.50	1.56**
QPM-69-2 X BML-13	7.97	1.31	0.01	2.33	2.00	0.13**	18.67	1.16	13.05 **	873.00	0.88	-592.70	374.30	0.96	2954.04**	8.92	1.30	1.08**
QPM-69-2 X CM-131	8.35	0.89	-0.11	2.44	0.27	0.07**	20.39	0.32	1.87	879.70	0.67	-776.41	379.90	1.28	1656.85**	8.98	0.34	1.73**
QPM-62 X BML-6	7.81	0.34	-0.03	2.21	-1.59	0.03**	17.24	-0.65*	-0.74	864.30	0.16	796.61	363.30	0.72	2506.81**	9.76	1.73	1.28**
QPM-62 X BML-13	8.14	0.37	-0.08	2.33	3.16	0.00	19.07	1.56	0.45	860.70	0.32	-845.36	347.30	0.56	395.89	9.46	1.49	-0.03
QPM-62 X CM-131	8.47	0.41	-0.08	2.01	0.14	-0.00	17.06	0.25	-0.46	888.90	0.26**	-1231.55	373.90	0.62	2285.57 **	8.92	1.19	-0.07
DMR-1142	7.83	0.83	1.44**	2.01	0.14	-0.00	15.75	0.70	3.41*	821.00	1.09	4895.02*	366.00	0.82	277.55	8.98	0.93	0.17
DMR-1144	7.81	1.34	0.83 **	2.11	0.27	0.07**	16.53	0.66	12.02**	827.60	1.07	2248.37	383.80	1.23	1981.81**	8.82	0.11	0.40*
Population mean	7.80			2.18			17.17			816.90			366.20			8.87		
CD at 5%	0.74			0.25			2.84			77.63			34.34			0.78		

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