

2011 Breeding Cross Observations Recommendations Summary

Pedigree	Heterotic	Overall Ratings				Ames Comments	AgReliant Comments	G&S Crop Services Comments
	Group	Ames	AgReliant	G&S Crop	Average			
ATL100:N(LH82)	NS	8	6	3	5.7	excel	18k rows! Husk not too tight , decent girth	sunburn
ATL100:N(LH61)	NS	7	4	6	5.7		lower husk coverage, short husk, 18k rows, big cob, short husk	
ATL100:N(PHK76)	NS	7	4	5	5.3		late	
ATL100:S(794)	SS	5	6	2	4.3	tall	husk not too tight	sunburn
ATL100:S(PHJ40)	SS	7	3	4	4.7	big k	some buggy whip present	
BR105:N(LH82)	NS	6	5	5	5.3		late	Sunburn, tassel blast
BR105:N(LH61)	NS	5	7	2	4.7	rt lod	nice kernel type & texture	Herbicide injury
BR105:N(PHK76)	NS	6	1	6	4.3		too high eared, food grade potential, orange grain, hard grain, tight husk	Sunburn, tassel blast
BR105:S(4676A)	SS	5	4	6	5.0		long slender ear, food grade potential, hard endosperm ears, too high eared	
BR105:S(794)	SS	3	3	3	3.0	poor	average intactness, 12k row, big flat kernels	sunburn
BR105:S(PHJ40)	SS	5	3	5	4.3	dk k	little stay green left, 12k rows, narrow ear	
BR106:N42	NS	4	1	3	2.7		big ears & girthy, 18 kernel rows, too high eared	
BR106:S42	SS	4	2	2	2.7		tight husk, very high eared!	sunburn
BR51039:N1543	NS	6	6	4	5.3	big k	lower health, loose husk	herbicide injury
BR51403:S0242	SS	6	5	2	4.3	whitish k	lower health, some GLS, good girth	sunburn, tassel blast
A619 x A632		4	3	3	3.3		very poor health	tassel blast
BR51403:S0243	SS	7	4	1	4.0		< average health	sunburn
BR51501:N11a08bt47(794)	NS	5	6	2	4.3		short husk, 18k rows, girthy	
BR51501:N11a08bt47(LH82)	NS	3	7	6	5.3		good foliar health, girthy ears	
BR51501:N11a08bt47(LH61)	NS	8	2	5	5.0		short husk, lower health, some stalk lodging	sunburn
BR51501:N11a08bt47(PHK76)	NS	7	4	4	5.0	big k	good foliar health	
BR52019:N(LH82)	NS	4	6	6	5.3	smut	good foliar health, more slender ears	
BR52019:N(LH61)	NS	7	3	5	5.0		drying down & maintaining health	
BR52019:N(PHK76)	NS	5	1	6	4.0	big k	very tight husk, long narrow ears	tassel blast
BR52019:S(4676A)	SS	5	3	5	4.3		large ears	sunburn, tassel blast
BR52019:S(794)	SS	5	2	6	4.3		clean	
BR52019:S(PHJ40)	SS	7	3	3	4.3	smut	clean	
BR52051:S172641	SS	7	7	4	6.0		clean, medium to smaller ears	tassel blast
Chapalote:N(LH82)	NS	4	5	6	5.0		narrow & small ears generally, < average plant health	
Chapalote:S(794)	SS	4	3	3	3.3		poor health, tight husk, a few white kernels present, a fair number of NLB lesions	sunburn, tassel blast
CML341:S(GEMS-0115)(794)	SS	6	7	3	5.3	whitish k	some white kernels present	
B73 x Mo17		7	8	5	6.7			
Coummum 094-R2:N(LH82)	NS	3	3	5	3.7	smut	kernels have some reddish coloration, tight husk	
Coummum 094-R2:S(794)	SS	4	3	4	3.7		tight husk	
CUBA164:S2008dt47(4676A)	SS	6	4	5	5.0			
CUBA164:S2008dt47(794)	SS	5	3	3	3.7		tight husk	sunburn, tassel blast
CUBA164:S2008dt47(PHJ40)	SS	5	7	3	5.0			sunburn
CUBA164:S(794)	SS	8	6	2	5.3	nice		sunburn
DKXL212:S0940	SS	8	5	7	6.7	n-low ears		
FS8A(S):S092603	SS	8	5	2	5.0	e qual		
FS8A(S):S092642	SS	7	5	2	4.7			tassel blast
GUAT740:N(LH82)	NS	3	2	6	3.7	stk lod	white kernels	
GUAT740:N(LH61)	NS	4	2	4	3.3	smut	not as intact	
GUAT740:S(4676A)	SS	4	3	7	4.7		purple stem	
GUAT740:S(794)	SS	5	2	3	3.3		purple stem, tight husk	sunburn
JAL281:N(LH82)	NS	5	1	6	4.0		some root lodging	tassel blast; Segregating red grains
JAL281:N(LH61)	NS	6	1	7	4.7			Segregating red grains
LH200 x LH262		8	3	7	6.0			
JAL281:S(4676A)	SS	3	3	7	4.3			Segregating red grains
JAL281:S(794)	SS	3	1	6	3.3			sunburn, tassel blast; Segregating red grains
Ki14:N42	NS	7	5	4	5.3		very late	
Ki21:S(DJ7)(GEMS-0115)	SS	7	5	5	5.7	nice		
NEI9008:S17a2640	SS	7	5	6	6.0			sunburn
PASCO14:S212603	SS	7	3	5	5.0			
PUER5:N(LH82)	NS	6	3	6	5.0	smut		tassel blast
PUER5:N(LH61)	NS	6	3	7	5.3	smut		
PUER5:S(794)	SS	6	3	6	5.0	smut	some buggy whip present	sunburn
SX1078:N(LH82)	NS	6	4	7	5.7			

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	Group	Ames	AgReliant	G&S Crop	Average			
SX1078:N(LH61)	NS	6	5	8	6.3			
SX1078:N(PHK76)	NS	7	2	7	5.3			
SX1078:S(794)	SS	7	4	6	5.7			
SX1078:S(PHJ40)	SS	7	3	8	6.0	nice		
SX2788:N(LH82)	NS	8	4	5	5.7	nice		
A619 x A632		4	1	6	3.7			tassel blast
SX2788:N(LH61)	NS	8	4	6	6.0	nice		
SX2788:N(PHK76)	NS	7	2	8	5.7			
SX2788:S(794)	SS	6	6	4	5.3			
TZAR102:N(LH82)	NS	5	2	5	4.0		short husk, some buggy whip present	
TZAR102:N(LH61)	NS	4	3	7	4.7	tip expose		
TZAR102:N(PHK76)	NS	6	4	8	6.0	smut		
TZAR102:S(794)	SS	6	6	8	6.7		poor tip fill	
TZAR104:N(LH82)	NS	7	8	8	7.7		nice color at harvest, some NLB lesions present	
TZAR104:N(LH61)	NS	8	7	7	7.3	nice-early	long ears	
TZAR104:S(794)	SS	7	7	7	7.0			
TZAR104:S(PHJ40)	SS	7	7	6	6.7			
TZAR105:N(LH82)	NS	6	6	5	5.7	stk lod	tight husk	tassel blast
TZAR105:S(794)	SS	6	5	3	4.7		tight husk	
TZAR105:S(PHJ40)	SS	6	5	7	6.0	rt lod		
Tzi9:N42	NS	5	3	3	3.7	whitish k	not as intact, girth	
Valle 343:N(LH82)	NS	5	1	7	4.3	whitish k	some white kernels present	tassel blast
B73 x Mo17		4	6	6	5.3	bad plot		
Valle 343:N(LH61)	NS	5	2	7	4.7	rt lod	narrow ears	
Valle 343:S(4676A)	SS	5	2	7	4.7	rt lod		
Valle 343:S(794)	SS	6	2	4	4.0			tassel blast
(AYA20351/GEMN-0136)-SIB-SIB/41	NS	7	4	7	6.0			
LH82/(AYA20351/GEMN-0124)-SIB-SIB	NS	7	6	6	6.3			tassel blast
LH82/(AYA20351/GEMN-0136)-SIB-SIB	NS	7	5	3	5.0			
LH61/(AYA20351/GEMN-0124)-SIB-SIB	NS	7	5	4	5.3		narrow ears	
LH61/(AYA20351/GEMN-0136)-SIB-SIB	NS	6	3	6	5.0		not intact	
PHK76/(AYA20351/GEMN-0124)-SIB-SIB	NS	6	3	7	5.3			
PHK76/(AYA20351/GEMN-0136)-SIB-SIB	NS	6	3	6	5.0		tight husk	
4676A/(BR105/CUBA164)	SS	4	2	8	4.7	rt lod		
PHJ40/(BR105/CUBA164)	SS	6	2	7	5.0			
794/(BR105/CUBA164)	SS	6	4	2	4.0			sunburn
KO679Y/2/GEMS-0002/GEMS-0003	SS	6	5	5	5.3	OK		tassel blast, sunburn
GEMS-0115/Mp717/GEMS-0115	SS	4	6	1	3.7		very tight husk, smaller ears	
GEMS-0147/GEMS-0115	SS	4	6	3	4.3			
GEMS-0147/GEMS-0180	SS	4	7	3	4.7			
GEMS-0147/GEMS-0180/794	SS	4	7	5	5.3		medium low eared	
LH200 x LH262		7	6	8	7.0			