

## 2009 Breeding Cross Observations Recommendations Summary

Pedigree	Inventory	Rating Scores (9 = Excellent)					Ames	UDEL	Mycogen
		Ames	G&S	UDEL	Mycogen	Average	Comments	Comment	Comments
(B101/GEMS-0031)-B	09GEM00173	6	3	5	3.0	4.3		Anthraxnose stalk rot	Stalk Lodging
(BR105/CUBA164)/GEMS-0175	09GEM00178	4	5	7	6.0	5.5	too tall	High ear, tall, intact stalks	Very high ear
BR105:N1652	08GEM80106	7	7	6	7.0	6.8	good stalk	Intact stalks	Large ear
BR105:N(GEMN-0137)	08GEM80091	3	7	6	7.0	5.8		Very tall, high ear	Stay Green
BR105:N(GEMN-0179)	08GEM80107	4	8	7	8.0	6.8		Good stalks	High ear
BR105:N(GEMN-0179)(GEMN-0155)	08GEM80115	7	6	5	7.0	6.3	excel app		Large ear
BR105:N(GEMN-0174)	08GEM80108	5	5	7	7.0	6.0	cross for south	Some smut, v. intact, high ear	Stay Green
BR105:N(GEMN-0174)(GEMN-0156)	08GEM80119	7	4	6	6.0	5.8	nice		
<b>A619xA632</b>	<b>Ames 23710</b>	<b>7</b>	<b>4</b>	<b>3</b>	<b>5.0</b>	<b>4.8</b>			Stalk Lodging
BR105:N(GEMN-0097)	08GEM80084	6	7	8	7.0	7.0	stay green good	Exc. Stalks	High ear
BR105:S1626(790)	08GEM80110	6	5	7	6.5	6.1	Thai origin	ASR, intact	
BR105:S1626(GEMS-0175)	08GEM80113	7	7	8	6.5	7.1	(Thai origin)good app	Intact	
BR105:S1641	08GEM80043	8	7	7	6.0	7.0	excel app	Intact	Good ear placement
BR105:S21z	08GEM80071	6	5	5	7.5	5.9	stay green good	Poor top coverage, late	Stay Green
BR105:S(GEMS-0115)	08GEM80082	4	5	6	4.0	4.8	roots not so hot	Very high ear, good stalks	
(BR106/CUBA164)/GEMN-0179	09GEM00179	3	6	6	4.0	4.8	poor roots	Poor top coverage	Slight root lodging
BR106:N(GEMN-0133)	08GEM80088	3	6	6	5.0	5.0	(prot & AA)poor roots	Very tall, late	
<b>B73/Mo17</b>	<b>08TPX1780</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>6.0</b>	<b>5.0</b>	poor roots (this rep only)	Heavy stalk lodging	
BR106:N(GEMN-0097)	08GEM80085	5	5	6	7.0	5.8	poor roots	Tall, high ear	Stay Green
BR106:S21z	08GEM80072	4	5	4	4.0	4.3		Poor tip coverage, plants with no ears	
BR106:S(GEMS-0115)	08GEM80081	4	6	6	7.5	5.9		Very tall, high ear, intact	Stay Green
BR51501:N11a08bT47(GEMN-0155)	08GEM80114	8	5	7	6.0	6.5	good app	Intact, some purple kernels	High ear
CH05027:F44N46	08GEM80102	8	5	4	4.0	5.3	good app	Poor appearance, poor stalks	Small ear
AR16038:S(PHB47)	08GEM80003	7	4	4	3.0	4.5	MDRC(good app)		
CML325:S1840	08GEM80097	7	3	5	6.5	5.4			Good ear placement
CML329:N1546	08GEM80104	8	6	6	6.0	6.5	excel app		Good ear placement
<b>LH200xLH262</b>	<b>Check262</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>8.0</b>	<b>7.8</b>		Exc. stalks	Good ear placement
CML341:S21z	08GEM80073	3	6	6	7.5	5.6	seg white & yell K's	Poor tip cov., good stalk, mod. ear ht	Very healthy!!
CML341:S(GEMS-0016)	08GEM80094	3	7	6	7.0	5.8			Stay Green
CML341:S(GEMS-0115)	08GEM80083	4	7	7	7.5	6.4	seg white & yell K's	Intact	Very healthy!!
CML341:S(GEMS-0115)(GEMS-0162)	08GEM80120	6	7	8	6.0	6.8	(prot & oil) nice		High ear
CUBA164:S2008dT47(GEMS-0175)	08GEM80116	7	4	6	5.0	5.5	good stk		Small ear
CUBA164:S21z	08GEM80074	6	6	5	6.5	5.9	nice-make cross	Tall, late	Very healthy!!
CUBA164:S(GEMS-0149)	08GEM80087	5	6	6	6.0	5.8		High ear	Very high ear
CUBA164:S(GEMS-0149)(GEMS-0162)	08GEM80111	8	5	5	6.5	6.1	nice ear ht		Good ear placement
<b>PHB47/PHZ51</b>	<b>08TPX1732</b>	<b>9</b>	<b>7</b>	<b>4</b>	<b>7.0</b>	<b>6.8</b>			Good ear placement
CUBA164:S(GEMS-0115)	08GEM80080	4	5	6	6.0	5.3	poor roots	Intact	High ear
DK212T:S11b40	08GEM80098	7	3	5	3.0	4.5	good		Stalk Lodging

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		Ames	G&S	UDEL	Mycogen	Average	Comments	Comment	Comments
DKXL212:S11b46	08GEM80100	8	4	7	6.5	6.4	excel app	Intact	Good ear placement
DKXL370:S08b46	08GEM80099	7	4	6	6.0	5.8	good		
(GEMN-0140/GEMN-0097)-B	09GEM00170	6	5	4	4.0	4.8	(fumonisin source)		Good ear placement
(GEMN-0156/GEMN-0174)-B	09GEM00166	7	4	6	6.0	5.8	prot & starch properties		
(GEMS-0002/GEMS-0091)-B	09GEM00167	5	4	4	5.0	4.5	(fumonisin source)		
(GEMS-0073/GEMS-0031)-B	09GEM00174	4	6	5	5.5	5.1	prot & AA		
<b>A619xA632</b>	<b>Ames 23710</b>	<b>6</b>	<b>6</b>	<b>3</b>	<b>6.5</b>	<b>5.4</b>			
(GEMS-0073/GEMS-0115)-B	09GEM00169	6	5	4	6.0	5.3	seg white & yell K's		
(GEMS-0091/GEMS-0073)-B	09GEM00175	5	5	5	5.0	5.0			
(GEMS-0147/GEMS-0180)-B	09GEM00171	7	6	6	7.0	6.5	starch properties		Very healthy!!
(GEMS-0149/GEMS-0061)-B	09GEM00164	1	6	5	5.0	4.3	wind snap		
(GEMS-0175/GEMS-0115)-B	09GEM00168	7	7	4	4.0	5.5	good roots		
(GEMS-0175/GEMS-0184)-B	09GEM00172	7	6	5	5.0	5.8	good		
Ki 14:S21z	08GEM80075	7	7	6	5.5	6.4	cross to early line	Green	Small ear
Ki 14:S(GEMS-0016)	08GEM80093	5	8	7	5.0	6.3		Intact	
<b>B73/Mo17</b>	<b>08TPX1780</b>	<b>8</b>	<b>8</b>	<b>6</b>	<b>7.5</b>	<b>7.4</b>		Tops broken	
MBRC10:N1730	08GEM80095	8	8	5	7.5	7.1	multiple borer resis		Good ear placement
NC 354:S(GEMS-0115)	08GEM80078	7	8	7	8.5	7.6	cross to early line	Intact	Nice look!! Good ear
NEI9008:N0826(GEMN-0155)	08GEM80112	6	8	6	8.0	7.0	poor roots	Intact	Nice ear
NS1:N(GEMN-0133)	08GEM80089	4	7	6	6.0	5.8	Thai origin	Smut	
NS1:S0852	08GEM80105	5	7	6	5.0	5.8	Thai origin		
NS1:S(GEMS-0149)	08GEM80086	5	7	7	7.5	6.6	Thai origin	High ear, intact	
NS1:S(GEMS-0115)	08GEM80079	5				5.0	Thai origin		
<b>CUBA173:S0422</b>	<b>06GEM80038</b>		<b>6</b>	<b>7</b>	<b>4.0</b>	<b>5.7</b>			Slight root lodging
SANM126:N1241	08GEM80044	7			5.5	6.3	good		
<b>LH200xLH262</b>	<b>Check262</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>7.5</b>	<b>7.1</b>			Large ear
(S21z/GEMS-0115)-B	09GEM00176	6	5	5	3.0	4.8	short height		Very small ear
Tzi 8:N(GEMN-0137)	08GEM80092	3	5	7	4.0	4.8		Intact	Very, very high ear
Tzi 9:N(GEMN-0133)	08GEM80090	6	6	5	3.0	5.0			Stalk Lodging
Tzi 9:S21z	08GEM80076	6	6	6	3.0	5.3		Intact, poor tip coverage	Stalk Lodging
Tzi 9:S(GEMS-0115)	08GEM80077	6				6.0		Very intact	
<b>DKB844:S1601</b>	<b>95GEM80140</b>		<b>5</b>	<b>7</b>	<b>7.0</b>	<b>6.3</b>			Large ear
(UR13085:N0215-002-001-(S5)/ AR17056:N2025 Select # 10-(S6))-B	09GEM00165	7	3	4	2.0	4.0	CRW source		Poor integrity
<b>PHB47/PHZ51</b>	<b>08TPX1732</b>	<b>8</b>	<b>4</b>	<b>5</b>	<b>5.0</b>	<b>5.5</b>			