

2016 Breeding Cross Observations - Ames-GEM, AgReliant-Ft. Brance, IN and G&S Crop

Entry	Pedigree	Pollen GDU Ames	Silk GDU Ames	Plant Health / Intactness Rating AgReliant	RL Rat Avg AgReliant	Ear Height Rating AgReliant	Ear Position at Harvest Ames	Husk Ext Ames	Husk Length G&S	Husk Tightness Ames	Husk Tightness G&S	Grain Color G&S	Grain Texture G&S	Kernel Cap Rating AgReliant	Overall Rating Ames	Overall Rating AgReliant	Harvest Notes - Ames	Harvest notes AgReliant
1	B73/Mo17	1350	1428	4	5.5	6	9	3.5	5.0	4	3.0	5.0	5.0	2		6		
2	Pioneer 33F85	1352	1365	3	7	6	5.5	5	6.0	4	4.0	5.0	5.0	6		7		
3	Pioneer 34R65	1277	1289	4	4.5	8	7	3	5.0	3.5	4.0	4.0	5.0	7		8		low ear placement
4	Pioneer 31D58	1384	1384	5	5.5	6	1.5	4.5	6.0	4.5	5.0	5.0	5.5	5		7		
5	MBS3520/MBS8814	1301	1312	6	9	5	7	3.5	4.0	4.5	4.5	4.5	4.0	1		6		some stalk lodging
6	MBS9508/MBS2655	1350	1339	4	8	5	7.5	3.5	5.0	4	5.0	5.0	5.5	5		6		
7	MBS3644/MBS5411	1301	1312	3	5.5	3	8.5	3	3.5	3.5	5.0	4.0	5.0	3		1		
8	(GEMN-0097/MSU_1)/GEMN-0155	1404	1420	5	4.5	5	2.5	4.5	5.5	5.5	6.0	5.0	5.0	2-6	5	6	High ear placement	
9	(GEMN-0097/MSU_1)/LH185	1378	1403	3	6	6	8.5	4.5	6.5	5	5.0	5.0	6.0	5	4.5	6	High ear placement	
10	(GEMN-0097/MSU_1)/PHGG7	1169	1242	2	4	5	9	5	6.0	3	5.0	1--5	4.5	3-6	3.5	4		
11	(GEMN-0097/MSU_1)/PHV53	1404	1463	5	5.5	5	7.5	4.5	6.5	5	5.5	1--5	5.0	4-6	3	7	High ear placement	
12	(MSU_1/PHN46)/LH185	1352	1416	5	8	5	8	4.5	7.0	4	5.5	5.0	5.5	4-5	3.5	6		
13	(MSU_1/PHN46)/PHN46	1446	1454	4	6	5	5.5	4	6.0	5	6.0	4.5	5.5	3-4	3	5	High ear placement	
14	(PHN46/MSU_2)/LH185	1377	1391	5	9	5	7.5	3.5	5.5	4	6.0	5.0	5.0	4-6	6	6		
15	(PHN46/MSU_2)/PHN46	1424	1454	3	8	4	6	4	5.5	5	4.5	4.5	5.0	2-6	3.5	2		
16	(GEMN-0155/MSU_2)/GEMN-0192	1323	1391	5	7	4	4	6	6.0	5.5	6.0	1--5	5.5	3-6	6	4	High ear placement	variable ear height
17	(GEMN-0155/MSU_2)/LH185	1365	1391	5	9	4	8	4	6.5	5	6.0	1--5	5.5	3-7	6.5	4		
18	(GEMN-0155/MSU_2)/PHGG7	1190	1242	3	6.5	6	8.5	4	6.5	3.5	6.0	4.0	4.0	2-7	4.5	6		
19	(GEMN-0155/MSU_2)/PHR55	1377	1403	5	6.5	4	5	3	4.0	6.5	7.0	1--5	5.5	3-6	5	4	Many barren	
20	(GEMN-0155/MSU_2)/PHV53	1391	1458	6	8.5	4	5	3	5.0	4.5	6.0	1--5	6.0	5-7	3.5	6	Early death	
21	(PHN46/(GEMN-0130/MP494))/41	1411	1408	4	7.5	5	4	3.5	5.5	5.5	6.0	5.0	5.0	3-6	6	5	High ear placement	
22	(PHN46/(GEMN-0130/MP494))/LH185	1428	1444	6	8.5	4	7	4	6.0	4.5	5.5	5.0	5.0	3-6	3	5	High ear placement	
23	(PHN46/(GEMN-0130/MP494))/PHN46	1475	1522	4	7.5	3	7	3.5	6.0	5	5.5	4.5	5.0	3-6	6	2		
24	BG002:T26aN(GEMN-0155)(GEMN-0192)	1416	1428	3	5	3	4	4.5	4.0	5.5	5.5	1--5	6.0	3-6	3.5	1	High ear placement, Long shank	
25	BG002:T26aN(GEMN-0155)(LH185)	1378	1391	5	7	4	8	3.5	6.0	4	6.0	5.0	5.5	5-7	4.5	5	Slender ear	
26	BG002:T26aN(GEMN-0155)(PHGG7)	1190	1242	2	4	5	8.5	3	5.0	3.5	5.0	1--5	6.0	6-8	5	6		
27	(CML343/GEMS-0032)/40x	1280	1301	8	6	4	2.5	3	5.0	7	7.5	5.0	5.0	3-6	5	6	Slender ear	
28	(CML343/N3-2-3-3)/40x	1411	1436	8	5.5	5	3.5	4	5.0	6	7.0	4.5	5.0	4-6	3	8	Tall, High ear placement	nice
29	(CML494 x GEMN-0097)/GEMN-0192	1436	1454	7	6	4	3	5	5.5	6	6.0	1--5	5.0	2-6	2.5	5	Very high ear placement	
30	(CML494 x GEMN-0097)/LH185	1404	1424	6	7	4	7	3	5.0	5.5	6.5	1--5	6.0	3-7	4	5	High ear placement	
31	(CML494 x GEMN-0097)/PHGG7	1203	1266	3	3.5	4	7	4	4.5	3.5	5.0	1--4	5.0	2-6	6	2		
32	(CML494 x GEMN-0097)/PHV53	1475	1576	7	5	3	2	3.5	4.0	4.5	6.0	5.0	6.5	4-6	2.5	4	High ear placement	variable ear height
33	(CML494/GEMS-0032)/40x	1499	1522	7	8	3	1.5	3.5	3.5	6.5	7.0	5.0	5.0	2-6	5	3	High ear placement	variable ear height
34	(GEMN-0097/CML449)/40x	1378	1391	8	7	3	2	6	7.0	5.5	7.0	5.0	5.0	2-7	3.5	4	High ear placement	
35	(GEMN-0097/89291)/40x	1352	1404	7	8	4	7	5	5.5	5	4.5	4.0	5.0	2-4	6	5	Very high ear placement, late RM	soft kernel texture
36	(CA00370/GEMN-0097)/40x	1444	1444	7	6	3	3	5	5.0	6	7.0	5.0	5.0	2-5	2	3	High ear placement	
37	((NKS8326/CML373)/GEMN-0097)-SIB)/41	1234	1280	1	7	5	1.5	5	4.5	6.5	5.5	5.0	6.0	4-6	3	4	High ear placement	
38	((NKS8326/CML373)/GEMN-0097)-SIB)/GEMN-0155	1408	1420	8	7	4	5	5.5	4.0	7	7.0	4.5	6.0	3-8	6	7	Late RM, Moderate ear height	
39	((NKS8326/CML373)/GEMN-0097)-SIB)/LH185	1428	1454	6	6.5	4	5	3.5	6.0	4.5	5.0	1--5	6.0	3-6	5	4		
40	((NKS8326/CML373)/GEMN-0097)-SIB)/PHGG7	1190	1242	1	5.5	5	8.5	4.5	5.0	3.5	5.0	1--5	5.0	4-8	3.5	5		
41	((NKS8326/CML373)/GEMN-0097)-SIB)/PHR55	1365	1411	3	5	5	7	3.5	4.0	5	6.5	5.0	6.0	3-6	5.5	5		

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42	((((NKS8326/CML373)/GEMN-0097)-SIB)/PHV53	1454	1487	6	7	3	2.5	3	5.0	6	6.0	5.0	6.0	3-8	5	4	High ear placement, early death	
43	(GEMN-0097/Ki 14)/GEMN-0155	1416	1424	7	9	4	3	4.5	6.0	6	6.0	5.5	5.5	4-9	4.5	7		variable ear height
44	(GEMN-0097/Ki 14)/LH185	1391	1411	5	7	4	4	8	6.5	3	4.5	5.5	5.0	5-6	3.5	5	High ear placement	
45	(GEMN-0097/Ki 14)/PHGG7	1190	1254	3	5	7	8	3	5.0	2	5.0	4.0	5.0	5-8	6.5	8		
46	(GEMN-0097/Ki 14)/PHV53	1403	1454	7	5	3	4.5	3.5	5.0	5	6.0	5.0	6.5	6-9	3.5	5	High ear placement	variable ear height
47	(GEMN-0097/TF-2-0-T3-P74-G121)/GEMN-0192	1315	1365	2	4	7	8.5	6	5.5	4.5	5.5	4.5	5.0	2-5	2.5	5		soft kernel texture
48	(GEMN-0097/TF-2-0-T3-P74-G121)/LH185	1312	1339	5	6.5	6	9	4	5.5	4	5.0	5.0	5.0	2-6	5	7	Very high ear placement	
49	(GEMN-0097/TF-2-0-T3-P74-G121)/PHR55	1338	1350	3	6	5	8	3	5.5	4.5	6.0	5.0	5.0	2-5	4.5	4	Early death	
50	(GEMN-0205/TF-0-0-T2-P72-G122)/GEMN-0192	1416	1436	3	6	5	8	5.5	6.0	3.5	5.0	5.5	5.5	3-5	5.5	4		
51	(GEMN-0205/TF-0-0-T2-P72-G122)/LH185	1391	1416	2	6.5	5	9	4	5.0	3	4.5	5.0	5.0	4-6	5	4	High ear placement	stalk lodging
52	(GEMN-0205/TF-0-0-T2-P72-G122)/PHGG7	1169	1242	1	4.5	4	8.5	4	5.5	3	4.5	4.5	5.0	2-6	4	1	High ear placement	stalk lodging
53	(GEMN-0205/TF-0-0-T2-P72-G122)/PHP55	1378	1404	5	8	4	6.5	6	5.5	5	6.0	5.0	6.5	4-8	4.5	5		
54	(GEMN-0205/TF-0-0-T2-P72-G122)/PHR55	1364	1391	4	9	5	8	4	4.0	3.5	6.5	5.5	5.0	3	3	4		
55	(GEMN-0097/PHN46)/GEMN-0192	1254	1303	3	7.5	6	9	4.5	6.0	4	5.0	5.0	5.0	5-6	5	6		
56	(GEMN-0097/PHN46)/LH185	1312	1276	3	8.5	5	8.5	4.5	5.5	3.5	5.5	5.0	5.0	3-6	4	5	Watch ear height	
57	(GEMN-0097/PHN46)/PHGG7	1123	1123	1	7.5	6	9	4	5.0	3.5	5.0	4.0	5.0	5-6	3	6		poor
58	(GEMN-0097/PHN46)/PHR03	1312	1365	4	7	5	8.5	4	6.0	3	5.0	5.5	6.0	5-7	4.5	6		
59	(GEMN-0043 x GEMN-0108)/GEMN-0155	1454	1454	8	9	4	2	3.5	4.5	6	6.0	5.0	5.5	5-7	4	7		
60	(GEMN-0043 x GEMN-0108)/LH185	1454	1454	5	9	4	7	3.5	7.0	4	5.5	5.5	5.5	6	4.5	5	High ear placement	
61	(GEMN-0043 x GEMN-0108)/PHR55	1444	1444	6	9	5	4	3.5	4.0	5.5	6.5	5.0	5.5	2-6	5	6	Watch ear height	
62	(GEMN-0043 x GEMN-0108)/PHV53	1478	1502	5	9	3	2.5	3.5	4.0	5	5.0	6.0	6.0	4-6	3.5	3	Very high ear placement	
63	(GEMN-0103 x GEMN-0097)/GEMN-0192	1312	1403	3	5.5	5	8	5.5	5.0	5	5.5	5.0	4.5	3-7	6	5	Many barren	
64	(GEMN-0103 x GEMN-0097)/LH185	1372	1372	4	8.5	4	8	5	6.5	4.5	5.5	5.5	6.0	3-6	4.5	3	High ear placement	
65	(GEMN-0103 x GEMN-0097)/PHR55	1338	1365	5	6	5	5	3.5	5.0	6	6.0	5.5	6.0	4-5	6.5	6	Long husk cover	
66	(GEMN-0104 x GEMN-0187)/GEMN-0192	1391	1411	3	4.5	3	6	4	5.5	5	5.0	5.0	6.0	4-5	5.5	1		
67	(GEMN-0104 x GEMN-0187)/LH185	1391	1404	3	7	4	7.5	4.5	6.5	4.5	5.0	6.0	5.5	4-7	4.5	3	High ear placement	variable ear height
68	(GEMN-0104 x GEMN-0187)/PHGG7	1216	1242	4	5	4	7	3	5.0	4.5	5.5	5.0	6.0	3-8	4	4	High ear placement	variable ear height
69	(GEMN-0104 x GEMN-0187)/PHR03	1428	1475	5	6	4	8	3	5.0	4	6.0	5.5	6.0	3-7	4	4	High ear placement	
70	(GEMN-0104 x GEMN-0187)/PHR55	1411	1411	3	5.5	5	7.5	3	4.0	5	7.0	5.5	6.0	3-7	4	5	High ear placement	
71	(GEMN-0104 x GEMN-0187)/PHV53	1436	1466	4	5	3	6.5	4	4.5	4	6.0	6.0	6.5	3-7	2	2	Healthy, Very high ear	
72	(GEMN-0124 x GEMN-0043)/GEMN-0192	1390	1272	3	6	4	7.5	5	5.5	5	6.0	5.0	7.0	3-6	4	2	High ear placement	
73	(GEMN-0124 x GEMN-0043)/LH185	1403	1404	4	9	4	7	4.5	6.0	5	6.5	5.5	6.0	3-7	4.5	3	High ear placement	
74	(GEMN-0124 x GEMN-0043)/PHGG7	1203	1216	4	8.5	4	8	5.5	6.0	3.5	5.0	4.5	5.5	3-7	4	3		
75	(GEMN-0124 x GEMN-0043)/PHR55	1338	1365	5	9	4	6	4	4.5	5	6.5	5.0	5.5	2-5	4	3	High ear placement	
76	(GEMN-0158/ATL100)/40x	1436	1454	8	9	3	2	5	6.5	6.5	6.0	5.0	5.5	2-6	4	4	Tall, High ear, Late	some stay green
77	(GEMN-0173/KO679Y)/41	1428	1444	6	9	4	2	3	5.5	6.5	6.0	6.0	5.5	5-7	3.5	6	High ear, Late	
78	(GEMN-0173/KO679Y)/GEMN-0155	1434	1458	8	9	4	2.5	4	5.5	6	7.5	7.0	7.5	3-6	3	6	High ear placement	
79	(GEMN-0173/KO679Y)/GEMN-0192	1411	1391	8	6.5	4	8	4	5.0	5.5	7.0	5.5	5.5	2-6	3.5	7	High ear placement	
80	(GEMN-0173/KO679Y)/LH185	1416	1444	6	9	4	5.5	3.5	6.0	4.5	5.0	6.0	6.0	5-8	4.5	6		
81	(GEMN-0173/KO679Y)/PHGG7	1174	1229	2	7	4	7	3	6.5	3.5	6.0	5.5	6.0	4-6	4	2	High ear	
82	(GEMN-0173/KO679Y)/PHP55	1365	1403	7	9	4	7	3.5	3.5	5	5.0	5.0	5.5	2-6	5	5	High ear placement	variable ear height
83	(GEMN-0173/KO679Y)/PHR55	1416	1424	7	9	4	4	3	4.0	6	6.0	6.0	5.0	3-7	3.5	7		
84	(GEMN-0187/GEMN-0198)/41	1403	1411	3	8.5	5	2.5	4	5.0	5.5	5.5	5.5	5.5	3-5	4.5	4	High ear placement	
85	(GEMN-0187/GEMN-0198)/GEMN-0192	1365	1404	2	6	3	8	6	6.0	5.5	6.0	6.0	6.0	2-6	4.5	1		
86	(GEMN-0187/GEMN-0198)/LH185	1436	1424	3	6	4	8	4	5.5	4.5	5.0	5.0	5.5	3-6	3.5	2	High ear placement	
87	(GEMN-0187/GEMN-0198)/PHGG7	1203	1242	2	5	4	8.5	4.5	5.5	3.5	6.5	5.0	5.0	5-7	3	3	High ear	
88	(GEMN-0187/GEMN-0198)/PHR55	1403	1436	3	6	4	6	4.5	5.0	5	6.0	5.5	5.5	5-6	4	3		

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89	(GEMN-0210/GEMN-0205)/41	1378	1377	4	6	6	1	2.5	4.0	6	6.0	6.0	5.5	4	4.5	6		
90	(GEMS-0113 x CML103)/GEMS-0218	1377	1377	8	8.5	4	7	5.5	5.0	6.5	7.6	1--5	6.0	6-7	4.5	7	High ear placement, White kernels	
91	(GEMS-0113 x CML103)/GEMS-0227	1377	1391	7	9	4	7	3	4.0	5.5	7.0	1--5	5.0	2-7	6	7	Fat, white ear	
92	(GEMS-0113 x CML103)/PHG39	1390	1411	7	9	3	3	4	4.5	5	6.5	1--5	6.0	5-7	6.5	4	Moderate ear height	
93	(GEMS-0113 x CML103)/PHW51	1352	1376	8	9	4	2	3.5	3.0	5	5.0	1--5	5--6	5-6	6.5	7		
94	(GEMS-0113/CML373)/40x	1378	1391	8	9	4	2	3	5.0	6.5	6.5	1--5	6.0	4-6	6.5	6		
95	(LH195/CML494)/40x	1466	1489	7	9	4	2.5	3.5	4.5	6	7.0	1--5	6.0	4-6	4	5	White kernels, High ear	
96	(GEMS-0113/La Posta Seq C7 F71-1-1-1-2)/40x	1420	1454	4	9	3	2.5	3.5	4.5	7	6.0	1--5	5.5	3-7	4.5	2	White, Low ear	
97	(La Posta Seq C7 F71-1-1-1-2/GEMS-0091)/40x	1391	1403	5	9	4	5	4.5	6.0	6	4.5	5.0	6.0	2-6	3.5	3	High ear placement	
98	La Posta Seq C7 F64-1-1-1-2:S40a	1436	1466	8	9	4	1	3	5.5	6.5	6.0	5.0	4.5	5-7	3	7	High ear placement	uniform
99	La Posta Seq C7 F64-1-1-1-2:S40b	1454	1466	9	9	4	1.5	4	4.0	7	7.0	4.0	6.0	4-6	3.5	7	High ear placement	
100	La Posta Seq C7 F71-1-1-1-2:S40a	1416	1454	7	8.5	4	3	2.5	6.5	6	5.0	5.0	5.5	4-7	3.5	6	High ear placement	
101	La Posta Seq C7 F71-1-1-1-2:S40b	1411	1444	4	8	5	5.5	2.5	6.0	7	4.5	5.0	6.0	2-5	4.5	4	High ear placement	
102	SX2788:S(794)(GEMS-0188)(GEMS-0227)	1301	1326	4	7	7	8	4	6.0	4	4.5	5.0	6.0	6-7	5	8		
103	SX2788:S(794)(GEMS-0188)(PHG39)	1377	1416	7	9	5	8	3	5.0	4.5	5.0	5.5	6.0	4-7	3.5	6	High ear placement	
104	SX2788:S(794)(GEMS-0188)(PHW51)	1278	1277	5	9	4	3	3	5.0	4.5	5.0	6.0	6.0	2-6	6.5	3		
105	SX2788:S(794)(GEMS-0188)(PHW52)	1312	1315	5	9	5	8	3.5	5.5	4.5	4.5	5.0	5.0	6-7	6	6		
106	(GEMS-0203/GEMS-0226)/GEMS-0227	1339	1341	6	9	5	8	4.5	5.0	4	6.0	5.0	6.0	4-7	5.5	6	Low ear placement	
107	(GEMS-0203/GEMS-0226)/PHG39	1377	1391	7	9	5	5.5	4.5	5.0	3.5	4.5	4.5	5.5	7-8	5.5	9		
108	(GEMS-0203/GEMS-0226)/PHW51	1403	1436	5	8	4	5	4	5.5	4.5	4.5	5.5	6.5	5-7	7	7	Low ear placement	
109	(GEMS-0203/GEMS-0226)/PHW52	1326	1350	6	7.5	5	8.5	4.5	5.0	4.5	5.5	5.0	6.5	3-8	4	7		
110	(GEMS-0227/Ki 14)/41	1372	1384	6	9	5	8.5	3.5	5.0	4.5	5.0	5.0	6.0	4-6	6.5	6	High ear placement	
111	(GEMS-0227/Ki 14)/GEMS-0218	1390	1424	7	9	4	4	5	4.5	5.5	5.5	5.5	6.0	5-8	5.5	7	High ear placement	
112	(GEMS-0227/Ki 14)/PHG39	1378	1436	7	9	3	7	4	5.0	3.5	6.0	6.0	6.0	6-8	6.5	5		
113	(GEMS-0227/Ki 14)/PHW51	1391	1454	8	9	4	2.5	3.5	4.5	5	4.5	5.5	6.0	4-8	6	7	16 kernel rows, Nice ear, Healthy	
114	(GEMS-0227/Ki 14)/PHW52	1338	1377	6	8.5	4	8	4	5.5	3.5	5.5	6.0	6.0	6-7	6	6	Low ear placement	
115	GEMS-0226/LH132	1416	1436	6	9	6	7.5	5.5	4.0	4.5	5.0	6.0	6.5	5-7	5.5	8	High ear placement	
116	GEMS-0226/LH198	1436	1446	5	9	4	6	5	6.5	5	5.5	5.5	6.0	4-6	4.5	4	High ear placement	
117	GEMS-0226/PHHB9	1478	1487	6	9	4	7.5	3.5	7.0	4	5.0	5.0	6.0	6-7	6.5	7		
118	GEMS-0226/PHK29	1446	1454	8	9	4	3	6	6.0	4.5	4.5	6.0	6.0	4-7	6.5	6	High ear placement	
119	GEMS-0226/PHP38	1454	1466	7	9	6	7.5	4.5	6.0	4	5.0	5.0	6.0	6-7	6	9	20 kernel rows	
120	(BR106:S(LH132)(PHG39)-B-053-B-B-SIB)/PHW51	1434	1420	7	9	5	5	4.5	6.0	4.5	5.0	5.0	6.0	5-7	5	8		
121	GEMS-0226/PHW52	1398	1390	8	9	5	4.5	4	5.5	5	4.5	5.0	6.0	6-8	6.5	9		
122	GEMS-0226/PHW86	1395	1430	7	9	5	5	4.5	5.5	5	4.5	5.0	6.0	4-6	4	8	High ear, Some smokey kernels	
123	GEMS-0227/LH132	1323	1323	4	9	7	8.5	5.5	6.0	4	5.0	4.5	5.5	4-7	5	7	Low ear placement	
124	GEMS-0227/LH198	1326	1339	4	7.5	6	8.5	3.5	5.0	5	5.5	4.5	5.0	5-6	7	7	Low ear placement	
125	GEMS-0227/PHP38	1308	1313	5	8	7	7.5	3.5	5.0	3.3	5.0	5.0	6.0	4-8	5	8		
126	GEMS-0227/PHW52	1315	1337	5	8	5	5.5	5	5.0	5.5	5.5	5.0	5.5	5-7	6.0	7	Low ear placement	
127	GEMS-0227/PHW86	1277	1337	5	7	6	5.5	3.5	4.0	5	5.5	4.5	5.0	4-6	5.5	7	Low ear placement	

**GEM Ames legend:**

Data is based on average of two reps. 1-9 Scale, 9 is best  
 Ear Position at Harvest ^: 1 - upright, 9 - drooping  
 Planting Date: April 26, 2016

**AgReliant legend:**

1-9 score, 9 is always best

**G&S legend:**

Husk Length: score from 1-9, 1 is very short and tip is very exposed, 5 is just covering the tip  
 Husk Tightness: score from 1-9, 1 is very loose and 9 is tight with many thick husk  
 Grain Color: score from 1-9, 1 is white 9 is orange/red  
 Grain Texture: score from 1-9, 1 is a shrunken dent, 9 is hard flint