



SOYBEAN VARIETIES' DISEASE RATINGS–2020

Dr. Tom Allen, Extension Plant Pathologist at DREC-Stoneville, has posted ratings for various diseases that affect soybean varieties that were grown in the 2020 Mississippi Soybean Official Variety Trials (OVT) at Brooksville, Clarksdale, Longwood, Olive Branch, Raymond, Stoneville, Tippo, and Verona. Varieties were rated for indicated foliar diseases at the indicated locations in the appended tables.

Varieties were rated when plants were between R6 and R6.5. Ratings are based on each variety's reaction to natural infestations of each disease at each location; i.e., plants were not inoculated with disease pathogens. Thus, the ratings do not presume to indicate a variety's response to a known yield-reducing level of the pathogen. Rather, the ratings are to be used as an indicator of each variety's reaction to the level of the pathogen present at each location in 2020. *Cercospora* blight, *Septoria* brown spot, southern blight, and target spot were the most common diseases that occurred at each location.

Evaluations for the presence of diseases were conducted using a 0 to 9 scale where 0 = no disease and 9 = intense disease symptoms.

For frog-eye leaf spot (FLS), amount of affected leaf surface area was estimated. 2020 was not a good year for FLS evaluations. However, the FLS data from Tippo appear to be valuable when considering varietal reaction to this disease.

Cercospora leaf blight (CLB) ratings were based on the presence of the disease on leaves (0 to 5), petioles (6), and pods and stems (7 to 9). This was based on disease intensity as determined by coloration of plant material (leaves with distinct purple coloration, and petioles, pods, and main stems with purple to near black coloration).

Septoria brown spot (SBS) and target spot (TS) were rated based on the presence of the disease within the plant canopy, where 0 to 3 indicated presence in the lower canopy, 4 to 5 indicated presence in the middle canopy, 6 to 8 indicated presence in the upper canopy,

and 9 indicated extensive defoliation throughout the entire plant canopy and the disease present in the uppermost canopy.

Southern blight (SB) ratings were based on presence of disease on plants in an entire plot where 0 = no disease, 5 = plants in approximately half the plot exhibited symptoms, and 9 = severe infestation characterized by dead plants. In numerous cases, either white fungal growth or sclerotia (signs associated with southern blight) were noted at the base of infected plants.

Green stem ratings were made using a 0-100% scale and are based on the percentage of plants in the entire plot that had green stems and green leaf material, but mature pods.

Note: Locations with a non-irrigated trial are designated with an (N) following the location name.

Statistics

MSE (Mean Squared Error). The MSE of an estimator measures the average of error squares—i.e. the average squared difference between the estimated values and true value. It is a risk function, corresponding to the expected value of the squared error loss. The MSE assesses the quality of an estimator (the ratings shown here are estimators of how a variety will tolerate a disease). In other words, it measures the quality of the estimate of the disease incidence (ratings) on the varieties in the accompanying tables. It is always positive and values closer to zero are better—i.e., an MSE of zero means the estimate predicts disease infection potential with perfect accuracy. Of course, this is typically not possible, especially where the disease levels assessed in these environments are based on their natural occurrence, which may have been non-existent or very low.

Probability level (*p* value). The smaller the probability level, the more stringent the statistical test.



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CV (coefficient of variation) and/or R^2 (coefficient of determination). These values are a measure of the relative precision of a given trial and can be used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial or test, while the R^2 is a measure of the amount of variation that is explained or accounted for in a given test. A CV below 10% (10% unexplained variation in a trial) is desired, while an R^2 above 0.90 (90% of the variation in a trial has been accounted for) is desired.

Ratings

Data obtained from Mississippi soybean OVT tests that were rated for disease infection are presented in the following attached tables.

Tables 1-7. Cercospora leaf blight (CLB) severity ratings for soybean varieties, Miss. OVT, 2020.

Tables 8-14. Frogeye leaf spot (FLS) severity ratings for soybean varieties, Miss. OVT, 2020.

Tables 15-21. Septoria brown spot (SBS) severity ratings for soybean varieties, Miss. OVT, 2020.

Tables 22-28. Southern blight (SB) severity ratings for soybean varieties, Miss. OVT, 2020.

Tables 29-35. Target spot (TS) severity ratings for soybean varieties, Miss. OVT, 2020.

Tables 36-42. Green stem ratings for soybean varieties, Miss. OVT, 2020.

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Table 1. Maturity Group IV Early Xtend Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4255RX	6.7	6.3	7.0	7.0	8.0	6.7	7.7	7.0	7.0	6.7	7.0	7.0
AgriGold G4620RX	6.3	6.7	6.0	6.0	7.3	5.7	7.0	6.7	6.0	7.0	6.0	6.4
Armor 44-D49	6.0	7.0	7.0	7.0	7.0	6.3	8.0	6.0	6.0	7.0	6.7	6.7
Armor 44-D92	7.0	6.3	7.0	7.0	7.3	7.0	7.3	6.0	7.3	7.0	7.0	6.9
Armor 46-D09	6.0	6.3	6.3	6.0	6.7	6.0	7.0	5.7	5.3	6.7	6.0	6.2
Asgrow AG43X0	7.0	6.3	7.0	7.0	7.7	7.0	8.0	7.0	7.0	7.0	7.0	7.1
Asgrow AG45X8	6.0	7.0	6.7	7.0	7.0	6.0	7.7	6.3	6.0	6.7	7.0	6.7
Asgrow AG46X0	6.0	6.0	6.0	6.0	6.3	5.7	7.0	6.0	5.7	6.0	6.3	6.1
Asgrow AG46X6	5.3	6.0	6.0	6.7	7.0	5.7	7.0	6.0	5.7	6.3	6.0	6.2
Credenz CZ 4280X	7.0	6.3	7.0	7.0	7.3	6.3	8.0	7.0	7.0	7.0	7.0	7.0
Credenz CZ 4341X	7.0	6.3	7.0	7.0	8.0	6.3	7.0	7.0	6.7	7.0	7.0	6.9
Credenz CZ 4570X	5.7	6.7	6.7	6.7	7.0	6.3	7.0	6.3	6.0	6.0	6.7	6.5
Credenz CZ 4600X	5.7	6.3	6.0	6.3	6.7	6.3	6.0	5.7	5.7	6.3	6.0	6.1
Delta Grow 46X05/STS	6.0	6.7	6.0	6.3	7.0	6.0	8.0	5.7	6.0	6.3	6.0	6.4
Delta Grow 46X65/STS	6.0	6.3	6.7	6.0	6.3	6.3	7.0	6.7	6.0	6.7	6.0	6.4
Dyna-Gro S45XS37	6.7	6.7	6.0	6.3	7.0	5.7	7.7	6.0	6.0	6.7	6.0	6.4
Dyna-Gro S45XS66	6.3	7.0	6.7	7.0	7.0	6.3	8.0	6.3	6.3	6.7	7.0	6.8
Dyna-Gro S46XS60	5.3	6.7	6.7	6.0	7.0	6.0	7.0	6.0	5.3	6.3	4.0	6.0
GDM Seeds DM 44X31	7.0	7.0	7.0	7.0	7.7	6.3	8.0	7.0	6.3	7.0	7.0	7.0
GDM Seeds DM 45X61	6.0	7.0	6.3	6.3	7.3	6.7	8.0	6.3	6.3	7.0	6.3	6.7
Great Heart Seed GT-4677XS	6.0	6.7	6.3	6.3	7.3	5.7	7.0	6.3	6.0	6.3	6.0	6.4
LG Seeds LGS4464RX	7.0	6.0	7.0	7.0	7.7	6.3	7.0	7.0	7.3	6.7	7.0	6.9
LG Seeds LGS4632RX	5.7	7.0	6.3	6.7	6.7	6.0	8.0	6.0	5.7	6.3	6.0	6.4
Local Seed Co. LS3976X	7.0	6.3	7.0	7.0	7.3	7.0	7.3	6.7	7.3	6.0	7.0	6.9
Local Seed Co. LS4299XS(LSX4301XS)	6.7	7.0	7.0	7.0	7.7	6.7	8.0	7.0	7.3	7.0	7.0	7.1
Local Seed Co. LS4407X (LSX4501X)	6.0	6.7	6.7	6.3	7.3	6.0	7.0	6.3	6.3	6.0	6.3	6.4
Local Seed Co. LS4565X	7.0	6.7	6.7	6.7	7.0	6.0	7.7	6.3	6.3	6.7	6.0	6.6
Local Seed Co. LS4583X	6.0	6.7	6.3	6.3	7.3	5.7	8.0	6.3	5.3	7.0	6.0	6.4
Mission A4448X	6.7	7.0	7.0	7.0	8.0	6.0	8.0	6.7	6.3	7.0	7.0	7.0
Mission A4618X	7.0	6.7	6.7	7.0	7.0	5.3	7.7	5.7	6.7	7.0	6.7	6.7
MorSoy MS 4616RXT/STS	6.0	6.7	6.0	6.7	7.0	6.0	7.3	6.3	6.0	6.7	6.0	6.4
NK S44-C7X	6.0	6.3	7.0	6.0	7.0	6.3	7.0	6.3	5.7	6.7	7.0	6.5
Pioneer P42A96X	6.3	6.0	7.0	7.0	7.3	7.0	7.0	7.0	7.0	6.7	6.7	6.8
Pioneer P44A72BX	6.3	6.7	6.0	6.7	7.0	6.0	6.3	6.3	6.0	6.0	6.3	6.3
Pioneer P46A86X	6.0	7.0	7.0	7.0	8.0	6.0	7.3	7.0	7.0	7.0	7.0	6.9
Progeny Ag 4265RXS	7.0	6.3	7.0	7.0	7.3	7.0	7.3	7.0	7.0	7.0	7.0	7.0
Progeny Ag 4444RXS	6.7	7.0	7.0	7.0	8.0	6.3	7.7	6.3	6.0	7.0	6.7	6.9
Progeny Ag 4505RXS	5.7	7.0	6.3	7.0	7.3	6.0	8.0	6.3	5.7	7.0	6.3	6.6
Progeny Ag 4620RXS	6.3	7.0	6.0	6.0	7.0	6.0	7.3	6.3	6.0	7.0	6.7	6.5
Terral REV4679X	6.7	6.0	7.0	6.0	6.7	6.0	7.0	6.3	6.0	6.3	6.3	6.4
USG 7447XTS	6.7	7.0	6.7	6.3	7.3	6.0	7.3	7.0	6.0	6.3	6.7	6.7
USG 7461XTS	6.0	6.7	6.0	6.0	6.7	5.7	8.0	5.7	6.0	6.3	6.0	6.3
MSE	507.1	736.8	474.8	441.8	563.9	713.2	382.7	680.2	329.4	621.9	496.9	
CV	35.5	42.7	34.3	33.1	37.4	42.1	30.4	41.1	28.6	38.9	35.2	
p-value	<0.0001	0.0087	<0.0001	<0.0001	<0.0001	0.0014	<0.0001	0.0001	<0.0001	0.0009	<0.0001	

Table 2. Maturity Group IV Late Xtend Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4820RX	6.3	6.3	7.0	6.7	7.0	6.7	7.0	7.0	6.3	6.0	7.0	6.7
AgriGold G4995RX	5.7	6.3	6.7	6.0	7.0	7.0	7.0	7.0	6.7	6.3	7.7	6.7
AGS GS47X19	6.3	6.7	7.0	6.0	7.3	7.0	7.0	7.0	6.0	6.0	7.3	6.7
AGS GS48X19	7.0	7.0	7.5	7.0	8.0	6.5	8.0	7.0	7.0	6.5	8.0	7.2
AGS GS49X21	6.3	6.3	8.0	6.0	7.0	6.7	8.0	7.0	6.0	6.0	8.0	6.8
Armor 48-D25	7.0	6.3	7.0	6.0	7.0	6.7	7.0	6.7	5.7	6.3	7.3	6.6
Armor 49-D14	6.3	7.0	7.3	5.7	7.0	6.7	7.0	7.0	6.7	6.0	8.0	6.8
Asgrow AG48X9	6.7	6.3	7.0	6.3	7.0	7.0	7.0	7.0	6.3	6.0	7.7	6.8
Credenz CZ 4730X	7.0	6.7	7.7	7.0	7.0	7.3	7.3	7.0	6.3	6.0	7.7	7.0
Credenz CZ 4770X	6.0	6.3	7.0	6.3	7.0	6.3	7.0	6.7	5.7	6.7	7.7	6.6
Credenz CZ 4810X	6.7	6.3	7.7	6.7	7.0	7.0	8.0	7.0	7.0	6.7	8.0	7.1
Credenz CZ 4869X	6.7	6.3	7.0	7.0	7.0	8.0	6.7	6.7	6.3	6.7	7.3	6.9
Credenz CZ 4941X	6.3	7.0	8.0	6.0	6.0	6.3	8.0	6.8	6.0	6.0	7.3	6.7
Credenz CZ 4979X	6.3	7.0	7.7	7.0	7.0	7.0	7.7	7.0	6.7	6.7	8.0	7.1
Delta Grow 47X95	6.3	6.7	7.0	6.3	7.3	7.0	7.0	7.0	7.0	6.0	8.0	6.9
Delta Grow 48X05	6.0	6.7	7.0	6.3	7.0	7.0	7.0	7.0	6.0	6.0	7.7	6.7
Delta Grow 48X45	6.7	6.3	7.3	6.0	7.0	7.0	7.0	6.7	6.0	6.0	7.7	6.7
Delta Grow 49X15	6.7	7.0	7.7	6.3	7.0	7.0	8.0	7.0	6.7	7.0	8.0	7.1
Delta Grow 49X25	6.0	7.0	8.0	6.0	6.3	7.3	8.0	6.7	5.7	6.3	8.0	6.8
Dyna-Gro S47XT20	6.3	7.0	6.7	6.0	7.0	7.3	7.7	7.0	6.7	6.0	8.0	6.9
Dyna-Gro S48XT56	6.3	6.7	7.0	6.3	7.0	7.0	7.0	7.0	6.3	6.0	8.0	6.8
Dyna-Gro S48XT90	6.0	6.0	7.0	6.0	7.0	7.0	7.0	7.0	6.0	6.3	7.7	6.6
Dyna-Gro S49XT21	6.0	6.7	8.0	6.0	6.7	7.0	8.0	6.7	6.0	6.3	8.0	6.9
Dyna-Gro S49XT70	6.0	7.0	7.3	6.0	7.0	6.7	8.0	7.0	6.3	6.3	7.7	6.8
GDM Seeds DM 47X39	6.0	6.3	7.0	5.7	7.0	6.3	7.3	6.7	6.3	6.3	7.0	6.5
GDM Seeds DM 49X13	5.7	6.3	7.0	5.7	7.0	7.0	7.0	6.7	6.0	6.3	7.3	6.5
Great Heart Seed GT-4828X	7.0	7.0	7.0	6.0	7.3	7.0	8.0	7.3	7.0	7.0	8.0	7.1
Great Heart Seed GT-4833XS	7.0	7.0	7.3	6.7	7.0	7.0	8.0	7.0	6.7	6.0	7.7	7.0
Great Heart Seed GT-4979X	6.3	7.0	7.0	6.0	7.0	6.7	7.0	6.7	6.3	6.0	7.7	6.7
LG Seeds LGS4899RX	6.3	6.7	7.0	6.3	7.0	6.0	7.0	7.0	6.7	6.7	8.0	6.8
Local Seed Co. LS4795XS (LSX4601XS)	6.3	6.3	6.7	6.7	7.0	7.0	7.0	6.7	7.0	6.0	7.7	6.8
Local Seed Co. LS4999X (LSX4901X)	7.0	6.7	8.0	6.7	8.0	7.3	8.0	7.0	7.0	6.3	8.0	7.3
Local Seed Co. LSX4612XS	6.7	6.7	7.7	6.7	7.0	7.0	8.0	7.0	7.0	6.7	8.0	7.1
Local Seed Co. LSX4812XS	6.0	6.0	7.0	6.7	7.0	6.7	7.0	7.0	6.3	6.0	7.3	6.6
Mission A4828X	6.3	6.3	7.7	6.0	7.0	6.7	8.0	7.0	6.7	6.7	8.0	6.9
Mission A4950X	6.3	6.3	7.0	5.3	7.0	6.7	7.0	7.0	6.3	6.0	8.0	6.6
MorSoy MS 4846 RXT	6.3	6.7	7.0	6.0	7.0	7.0	7.0	6.5	6.7	6.3	7.3	6.7
NK S47-Y9X	6.3	7.0	7.0	6.7	7.0	7.3	8.0	7.0	7.0	6.7	8.0	7.1
NK S49-F5X	6.0	6.0	7.3	6.0	7.0	6.7	7.0	6.7	6.0	6.0	7.3	6.5
Pioneer P48A60X	7.0	6.3	7.0	6.7	7.3	7.7	8.0	7.0	7.0	7.0	8.0	7.2
Progeny Ag 4700RXS	6.3	6.7	7.0	6.7	7.3	7.0	7.7	7.0	7.0	6.0	8.0	7.0
Progeny Ag 4816RX	5.7	6.0	7.3	6.3	7.0	7.0	7.0	7.0	6.0	6.3	7.3	6.6
Progeny Ag 4821RX	7.0	6.0	6.3	6.3	7.3	7.0	7.0	6.7	6.7	6.7	7.3	6.8
Progeny Ag 4851RX	7.0	6.8	8.0	6.8	7.3	7.0	8.0	7.0	7.0	6.8	7.8	7.2
Progeny Ag 4970RX	6.0	6.7	7.7	5.7	7.0	6.7	7.0	7.0	6.0	6.0	7.7	6.7
Taylor Seed T4880XS	6.3	6.7	7.0	6.0	7.0	6.7	7.0	7.0	6.3	6.3	7.3	6.7
Taylor Seed T4990XS	6.0	6.7	8.0	6.0	6.7	6.7	8.0	7.0	6.3	6.0	8.0	6.9

Maturity Group IV Late Xtend Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
Terral REV4927X	6.7	7.0	7.0	7.0	7.7	7.3	7.3	7.0	7.0	6.7	8.0	7.2
Terral REV4940X	7.0	6.3	6.7	6.7	6.7	6.7	7.0	7.0	6.3	6.7	8.0	6.8
USG 7480XT	6.3	6.7	7.0	6.3	7.0	6.7	7.0	7.0	6.0	6.3	7.3	6.7
USG 7489XT	6.3	6.0	7.7	6.0	7.0	7.0	7.0	7.0	6.3	6.0	7.0	6.7
USG 7496XTS	6.0	6.7	8.0	6.7	7.0	7.0	8.0	7.0	6.0	6.3	8.0	7.0
MSE	1196.0	1406.2	715.5	987.1	513.8	962.9	241.2	530.1	975.8	1007.4	963.9	
CV	43.9	47.8	34.1	40.0	28.9	39.5	19.8	29.3	39.8	40.4	39.6	
<i>p</i> -value	0.0024	0.1329	<0.0001	<0.0001	<0.0001	0.0192	<0.0001	0.7124	<0.0001	0.0041	0.0036	

Table 3. Maturity Group IV Enlist Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona (N)	AVG
Armor 48-E81	6.3	6.0	6.7	6.0	7.0	6.0	5.7	7.0	6.3
Delta Grow 45E28XP	5.3	5.7	7.0	5.3	7.0	6.3	6.0	6.7	6.2
Delta Grow 47E20/STS	6.3	7.0	7.7	5.7	8.0	7.0	6.0	7.0	6.8
Delta Grow 47E80/STS	5.3	6.3	7.0	5.3	8.0	7.0	6.3	7.3	6.6
Delta Grow 48E10	5.7	7.0	7.0	5.7	7.7	6.3	6.0	7.0	6.6
Delta Grow 48E49/STS	5.7	6.0	6.7	5.7	6.7	6.7	6.0	7.0	6.3
Delta Grow 49E00/STS	6.0	6.0	6.3	5.3	7.0	6.3	6.0	6.7	6.2
GDM Seeds DM 48E73	6.0	6.3	7.3	5.3	7.0	6.7	6.0	6.7	6.4
Go Soy 463E20S	6.7	6.3	7.7	5.3	7.3	7.0	6.7	7.7	6.8
Go Soy 473E20	6.3	6.0	7.3	5.3	7.0	6.3	6.0	7.0	6.4
Go Soy 481E19	6.0	7.0	7.7	5.3	7.7	7.0	6.0	7.0	6.7
Go Soy 491E19S	6.3	7.0	7.0	5.3	7.3	7.0	6.3	7.3	6.7
Local Seed Co. ZS4694E3S (LSX4602ES)	5.3	6.0	6.7	5.3	6.3	7.0	6.0	7.0	6.2
MorSoy MS 4800E	6.0	6.3	7.3	5.3	7.0	6.7	6.0	7.0	6.5
Pioneer P49T62E	6.0	6.3	7.0	5.3	7.0	7.0	5.3	7.0	6.4
Progeny Ag 4241E3	6.3	6.0	7.3	6.3	7.0	7.0	6.7	7.0	6.7
Progeny Ag 4682E3	6.7	6.3	7.0	5.3	7.7	6.7	6.7	7.3	6.7
Progeny Ag 4775E3S	6.3	6.0	7.7	5.7	7.3	7.0	6.3	7.0	6.7
Progeny Ag 4807E3S	6.3	6.0	7.0	6.0	7.7	7.0	5.7	8.0	6.7
Progeny Ag 4902E3	5.7	6.0	6.7	5.7	7.0	6.3	6.0	7.0	6.3
Progeny Ag 4908E3S	6.0	7.0	7.3	5.7	7.7	7.0	6.7	7.7	6.9
USG 7491ETS	6.0	7.0	7.0	5.0	7.0	6.3	5.7	7.0	6.4
MSE	243.9	97.5	189.8	305.9	112.7	143.7	262.7	98.3	
CV	46.6	29.5	41.1	52.2	31.7	35.8	48.4	29.6	
<i>P</i> -value	0.1684	<0.0001	0.0956	0.6629	<0.0001	0.0202	0.4133	0.0007	

Table 4. Maturity Group IV Conventional/LibertyLink/RR Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville (N)	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Credenz CZ 4820 LL	7.0	6.0	7.0	7.3	6.8
GDM Seeds V 4520 S	7.0	5.7	7.0	7.0	6.7
GDM Seeds V 4720 S	7.0	6.0	7.0	7.0	6.8
GDM Seeds V 4921 S	7.0	5.7	7.0	6.7	6.6
Go Soy 46G19	6.0	6.0	7.0	7.0	6.5
Go Soy 48C17S	6.0	6.0	6.7	6.7	6.4
Go Soy 49G16	6.7	6.0	6.7	6.7	6.5
Go Soy GT Ireane	6.3	6.0	6.7	7.0	6.5
Go Soy Ireane	6.3	6.0	6.7	7.0	6.5
Local Seed Co. LSX3911GL	7.0	6.3	7.0	6.7	6.8
Local Seed Co. LSX4711GL	6.7	6.0	7.0	7.0	6.7
Petrus Seed 4619 GTS	6.3	6.0	6.7	6.7	6.4
Petrus Seed 4916 GT	6.7	6.0	6.0	6.7	6.4
Progeny Ag 4602LR	6.0	6.0	7.0	7.0	6.5
Uni. Of Arkansas R15-2422	7.0	6.0	7.0	7.0	6.8
Uni. Of Arkansas R16-259	6.7	6.0	7.0	6.7	6.6
Uni. Of Missouri S15-10879C	6.3	6.0	7.0	7.0	6.6
Uni. Of Missouri S15-3772RY	6.3	6.0	7.0	7.0	6.6
Uni. Of Missouri S15-3847R	6.3	6.0	7.0	6.7	6.5
Uni. Of Missouri S15-5904RY	6.3	6.0	7.0	7.0	6.6
Uni. Of Missouri S16-11644C	6.3	6.0	6.7	7.0	6.5
Uni. Of Missouri S16-14379C	6.3	6.0	6.0	6.3	6.2
Uni. Of Missouri S16-14730C	6.0	6.0	6.7	6.7	6.4
Uni. Of Missouri S16-5540R	6.0	5.7	6.7	6.7	6.3
Uni. Of Missouri S16-7875C	6.0	6.0	7.0	7.0	6.5
Uni. Of Missouri S16-7922C	6.3	5.7	6.7	7.0	6.4
MSE	253.5	151.1	179.0	209.5	
CV	40.3	31.1	33.9	36.9	
<i>p</i> -value	0.0040	0.9285	0.0152	0.5243	

Table 5. Maturity Group V Xtend Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Asgrow AG52X9	7.0	6.3	7.7	7.0	7.0	6.0	7.0	7.0	7.3	6.9
Asgrow AG53X0	8.0	7.0	8.0	7.7	7.0	6.0	8.0	8.0	7.7	7.5
Asgrow AG53X9	8.0	7.0	8.0	7.7	6.7	6.0	7.3	7.3	8.0	7.3
Asgrow AG55X0	6.0	6.0	7.0	6.0	6.7	6.0	6.0	6.0	6.0	6.2
Credenz CZ 5000X	7.7	6.7	7.0	7.0	7.0	6.3	7.0	7.0	7.7	7.0
Credenz CZ 5251X	7.7	7.0	7.7	7.3	6.7	6.0	7.3	7.0	7.7	7.2
Credenz CZ 5299X	7.0	5.7	7.0	7.0	6.7	5.3	7.3	6.3	7.7	6.7
Credenz CZ 5420X	7.3	5.7	7.0	7.3	6.3	5.7	7.7	7.0	7.0	6.8
Credenz CZ 5700	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0
Delta Grow 52X05/STS	7.0	5.7	7.0	7.3	6.3	6.0	7.0	6.3	6.7	6.6
Delta Grow 54X25	7.3	6.3	7.7	7.0	6.3	6.3	7.0	6.3	8.0	6.9
Dyna-Gro GS5261X	8.0	7.0	7.3	7.0	7.0	6.0	7.0	7.0	7.0	7.0
Dyna-Gro S52XS39 (SX 18652XS)	7.0	6.0	7.0	6.7	7.0	6.7	7.0	6.7	7.0	6.8
Dyna-Gro S56XT99	6.0	6.0	6.0	6.0	6.7	6.0	6.0	6.3	7.0	6.2
GDM Seeds DM 51X61	7.0	7.0	8.0	7.3	7.0	6.3	7.0	7.3	7.7	7.2
Great Heart Seed GT-5214X	6.3	6.0	7.0	6.7	7.0	6.0	6.7	6.7	6.7	6.6
Great Heart Seed GT-5417X	7.7	6.7	7.7	7.0	6.7	6.3	7.7	7.0	7.7	7.2
Local Seed Co. LS5009XS	7.0	6.7	7.3	6.7	6.7	6.3	7.0	7.0	7.0	6.9
Local Seed Co. LS5087X	7.3	7.0	7.7	7.0	7.0	7.0	7.7	7.0	7.7	7.3
Local Seed Co. LS5386X	7.7	6.7	7.0	6.7	6.3	6.3	7.0	7.0	7.0	6.9
MorSoy MS 5398 RXT	7.7	6.0	7.0	7.0	6.3	6.0	7.0	6.7	7.0	6.7
NK S51-R3XS	7.3	6.7	7.7	7.0	7.0	6.3	7.0	7.0	7.3	7.0
NK S53-F7X	8.0	6.7	7.7	8.0	6.3	6.0	8.0	7.7	7.7	7.3
Pioneer P53A67X	6.0	6.0	6.0	6.0	6.7	6.0	6.0	6.0	6.3	6.1
Pioneer P55A49X	7.7	6.3	7.3	6.7	6.7	6.3	8.0	7.0	8.0	7.1
Progeny Ag 5016RXS	8.0	7.0	8.0	8.0	6.7	7.0	8.0	7.7	8.0	7.6
Progeny Ag 5170RX	8.0	6.3	8.0	7.3	7.0	6.7	8.0	7.3	8.0	7.4
Progeny Ag 5252RX	7.0	6.0	7.0	7.3	6.3	6.0	7.0	7.0	7.3	6.8
Progeny Ag 5554RX	6.0	6.0	6.3	6.0	6.3	6.0	6.0	6.3	6.7	6.2
MSE	152.3	265.7	150.9	188.0	381.4	269.9	136.1	184.8	256.6	
CV	27.7	37.0	27.8	31.2	44.4	37.3	26.5	30.9	36.4	
<i>p</i> -value	<0.0001	<0.0001	<0.0001	<0.0001	0.1998	0.0097	<0.0001	<0.0001	<0.0001	

Table 6. Maturity Group V Enlist Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Armor 51-E53	8.0	7.0	7.0	6.0	8.0	8.0	8.0	7.4
Delta Grow 51E60	8.0	7.0	6.3	5.7	8.0	7.7	8.0	7.2
Delta Grow 52E15/STS	8.0	7.0	6.7	5.7	8.0	7.7	8.0	7.3
Go Soy 512E21	8.0	6.3	6.0	5.3	8.0	8.0	8.0	7.1
Local Seed Co. ZS5098E3	8.0	7.0	6.7	6.0	8.0	7.7	8.0	7.3
MorSoy MS 5110E	8.0	6.7	7.0	5.7	8.0	8.0	8.0	7.3
Progeny Ag 5211E3	8.0	7.0	6.0	6.0	7.7	7.7	8.0	7.2
MSE	0.0	9.6	13.9	32.2	5.3	18.4	0.0	
CV	0.0	28.2	33.8	51.6	20.8	38.9	0.0	
<i>p</i> -value	.	0.0965	0.0168	0.7696	0.4682	0.7461	.	

Table 7. Maturity Group V Conventional/LibertyLink/RR Cercospora leaf blight ratings (0-9 scale)

Brand Variety	Brooksville (N)	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Go Soy 50G17	6.0	6.7	6.0	6.3	6.3
Petrus Seed 5319 GT	7.0	6.7	7.3	8.0	7.3
Uni. Of Arkansas R13-14635RR	6.7	6.3	7.0	7.7	6.9
Uni. Of Missouri S16-11651C	6.7	6.0	6.7	7.0	6.6
Uni. Of Missouri S16-15170C	6.7	6.3	7.3	7.7	7.0
Uni. Of Missouri S16-15809C	6.0	6.7	6.7	7.0	6.6
Uni. Of Missouri S16-3739RY	7.0	6.7	8.0	8.0	7.4
Uni. Of Missouri S16-3747RY	7.0	7.0	7.7	8.0	7.4
MSE	18.0	23.9	17.8	9.2	
CV	33.9	39.1	33.8	24.2	
<i>p</i> -value	0.0114	0.3395	0.0032	<0.0001	

Table 8. Maturity Group IV early Xtend Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Clarksdale	Raymond (N)	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4255RX	0.0	0.0	0.0	0.0	0.3	0.1
AgriGold G4620RX	0.0	0.0	0.3	1.7	1.7	0.7
Armor 44-D49	0.0	0.0	0.3	0.3	0.0	0.1
Armor 44-D92	0.0	0.0	0.0	0.7	0.0	0.1
Armor 46-D09	0.3	0.0	0.3	1.7	0.7	0.6
Asgrow AG43X0	0.0	0.0	0.0	0.0	0.0	0.0
Asgrow AG45X8	0.0	0.0	0.0	0.3	0.3	0.1
Asgrow AG46X0	0.0	0.0	0.0	0.7	0.7	0.3
Asgrow AG46X6	0.0	0.0	0.0	1.0	0.7	0.3
Credenz CZ4280X	0.3	0.3	0.7	0.0	0.0	0.3
Credenz CZ4341X	0.0	0.0	0.7	1.7	3.7	1.2
Credenz CZ4570X	0.0	0.0	0.0	0.7	2.0	0.5
Credenz CZ4600X	0.0	0.0	0.0	0.0	0.7	0.1
Delta Grow 46X05/STS	0.0	0.0	0.0	0.0	0.3	0.1
Delta Grow 46X65/STS	0.0	0.0	0.0	0.7	0.7	0.3
Dyna-Gro S45XS37	0.0	0.0	0.3	0.3	0.0	0.1
Dyna-Gro S45XS66	0.0	0.0	0.0	0.0	0.3	0.1
Dyna-Gro S46XS60	0.0	0.0	0.3	1.3	0.7	0.5
GDM Seeds DM 44X31	1.0	0.0	0.0	2.0	0.0	0.6
GDM Seeds DM 45X61	0.0	0.0	0.0	0.0	0.0	0.0
Great Heart Seed GT-4677XS	0.7	0.0	0.0	0.7	1.0	0.5
LG Seeds LGS4464RX	0.0	0.0	0.0	1.3	2.3	0.7
LG Seeds LGS4632RX	0.3	0.0	0.3	0.0	0.0	0.1
Local Seed Co. LS3976X	0.0	0.0	0.0	0.0	0.0	0.0
Local Seed Co. LS4299XS(LSX4301XS)	0.3	0.0	0.0	0.3	0.3	0.2
Local Seed Co. LS4407X (LSX4501X)	0.0	0.0	0.0	1.3	1.7	0.6
Local Seed Co. LS4565X	0.0	0.0	0.3	0.0	0.0	0.1
Local Seed Co. LS4583X	0.3	0.0	0.0	1.0	1.3	0.5
Mission A4448X	0.0	0.7	0.3	0.0	0.0	0.2
Mission A4618X	0.0	0.0	0.3	0.0	0.0	0.1
MorSoy MS 4616RXT/STS	0.0	0.3	0.3	0.3	0.3	0.2
NK S44-C7X	0.0	0.0	0.3	0.0	0.0	0.1
Pioneer P42A96X	0.0	0.0	0.3	0.3	0.0	0.1
Pioneer P44A72BX	0.0	0.0	0.3	0.0	0.0	0.1
Pioneer P46A86X	0.0	0.0	0.3	0.0	0.0	0.1
Progeny Ag 4265RXS	0.0	0.0	0.0	0.3	0.7	0.2
Progeny Ag 4444RXS	0.0	0.0	0.0	0.0	0.0	0.0
Progeny Ag 4505RXS	0.0	0.0	0.0	0.0	0.0	0.0
Progeny Ag 4620RXS	0.0	0.0	0.0	0.3	0.0	0.1
Terral REV4679X	0.0	0.0	0.0	0.0	0.7	0.1
USG 7447XTS	0.3	0.0	0.0	0.3	1.0	0.3
USG 7461XTS	0.3	0.0	0.3	0.0	0.0	0.1
MSE	269.6	94.5	538.5	531.2	455.2	
CV	25.9	15.3	36.5	36.1	33.5	
p-value	0.7169	0.5607	0.6936	<0.0001	<0.0001	

Table 9. Maturity Group IV Late Xtend Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Raymond (N)	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4820RX	0.0	0.0	0.3	0.7	1.0	0.4
AgriGold G4995RX	0.0	0.3	0.0	1.0	1.7	0.6
AGS GS47X19	0.0	0.0	0.0	0.0	0.0	0.0
AGS GS48X19	0.0	0.0	0.0	2.0	1.5	0.7
AGS GS49X21	0.0	0.7	0.0	5.3	1.7	1.5
Armor 48-D25	0.0	0.0	0.0	1.0	1.3	0.5
Armor 49-D14	0.0	0.0	0.3	0.0	0.3	0.1
Asgrow AG48X9	0.0	0.0	0.0	0.7	0.7	0.3
Credenz CZ 4730X	0.0	0.0	0.0	2.0	1.0	0.6
Credenz CZ 4770X	0.7	0.0	0.3	0.0	0.0	0.2
Credenz CZ 4810X	0.0	0.7	0.0	1.0	0.0	0.3
Credenz CZ 4869X	0.0	0.0	0.0	0.0	0.0	0.0
Credenz CZ 4941X	0.3	0.0	0.0	4.7	1.7	1.3
Credenz CZ 4979X	0.0	0.0	0.0	0.0	0.0	0.0
Delta Grow 47X95	0.0	0.0	0.0	0.0	0.0	0.0
Delta Grow 48X05	0.0	0.0	0.0	0.7	0.0	0.1
Delta Grow 48X45	0.0	0.0	0.3	0.3	1.0	0.3
Delta Grow 49X15	1.0	0.0	0.0	0.0	0.7	0.3
Delta Grow 49X25	0.0	0.3	0.0	4.0	3.0	1.5
Dyna-Gro S47XT20	0.0	0.3	0.0	1.7	1.0	0.6
Dyna-Gro S48XT56	0.0	0.0	0.0	1.3	0.3	0.3
Dyna-Gro S48XT90	0.0	0.0	0.3	0.0	0.0	0.1
Dyna-Gro S49XT21	0.0	0.0	0.0	4.3	2.3	1.3
Dyna-Gro S49XT70	0.0	0.0	0.0	1.0	0.3	0.3
GDM Seeds DM 47X39	0.0	0.0	0.0	0.3	0.0	0.1
GDM Seeds DM 49X13	0.0	0.0	0.0	0.3	0.3	0.1
Great Heart Seed GT-4828X	0.0	0.0	0.0	0.0	0.3	0.1
Great Heart Seed GT-4833XS	0.0	0.0	0.0	2.3	1.0	0.7
Great Heart Seed GT-4979X	0.0	0.0	0.0	1.3	0.0	0.3
LG Seeds LGS4899RX	0.0	0.0	0.0	1.0	1.0	0.4
Local Seed Co. LS4795XS (LSX4601XS)	0.0	0.0	0.0	0.7	1.3	0.4
Local Seed Co. LS4999X (LSX4901X)	0.0	0.0	0.0	0.3	0.0	0.1
Local Seed Co. LSX4612XS	0.0	0.0	0.0	0.0	0.0	0.0
Local Seed Co. LSX4812XS	0.0	0.0	0.0	1.7	0.7	0.5
Mission A4828X	0.0	0.0	0.0	1.7	1.7	0.7
Mission A4950X	0.0	0.0	0.0	0.3	0.3	0.1
MorSoy MS 4846 RXT	0.0	0.0	0.0	1.3	0.7	0.4
NK S47-Y9X	0.0	0.0	0.0	1.0	0.7	0.3
NK S49-F5X	0.0	0.0	0.0	1.0	1.0	0.4
Pioneer P48A60X	0.0	0.0	0.0	1.0	0.7	0.3
Progeny Ag 4700RXS	0.3	0.0	0.0	0.0	0.3	0.1
Progeny Ag 4816RX	0.0	0.0	0.0	2.0	0.7	0.5
Progeny Ag 4821RX	0.0	0.0	0.0	1.0	0.3	0.3
Progeny Ag 4851RX	0.0	0.0	0.0	1.0	0.5	0.3
Progeny Ag 4970RX	0.0	0.0	0.0	0.0	0.0	0.0
Taylor Seed T4880XS	0.0	0.0	0.0	0.7	0.7	0.3
Taylor Seed T4990XS	0.3	0.0	0.0	1.3	0.7	0.5
Terral REV4927X	0.0	0.0	0.0	0.0	0.0	0.0
Terral REV4940X	0.0	0.0	0.3	0.0	0.0	0.1
USG 7480XT	0.0	0.0	0.0	0.0	0.3	0.1

Maturity Group IV Late Xtend Frogeye leaf spot ratings

Frogeye leaf spot severity rating (0-9 scale)

Brand Variety		Raymond (N)	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
USG 7489XT		0.3	0.0	0.0	0.7	0.7	0.3
USG 7496XTS		0.0	0.3	0.0	1.3	1.0	0.5
	MSE	232.4	222.4	211.1	887.9	1247.8	
	CV	19.4	18.9	18.5	37.9	44.9	
	p-value	0.0822	0.5714	0.4892	<0.0001	0.0078	

Table 10. Maturity Group IV Enlist Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Brooksville	Raymond (N)	Stoneville (N)	Verona (N)	AVG
Armor 48-E81	0.0	0.0	0.0	0.0	0.0
Delta Grow 45E28XP	0.3	0.0	0.0	3.0	0.8
Delta Grow 47E20/STS	0.0	0.7	0.0	4.0	1.2
Delta Grow 47E80/STS	0.0	0.0	0.0	0.0	0.0
Delta Grow 48E10	0.0	0.0	0.3	0.0	0.1
Delta Grow 48E49/STS	0.0	0.3	0.0	1.0	0.3
Delta Grow 49E00/STS	0.0	0.0	0.0	0.3	0.1
GDM Seeds DM 48E73	0.3	0.0	0.0	1.0	0.3
Go Soy 463E20S	1.0	0.0	0.0	4.0	1.3
Go Soy 473E20	0.0	0.0	0.0	0.0	0.0
Go Soy 481E19	0.0	0.3	0.0	0.0	0.1
Go Soy 491E19S	0.0	0.0	0.0	1.0	0.3
Local Seed Co. ZS4694E3S (LSX4602ES)	0.3	0.0	0.0	0.7	0.3
MorSoy MS 4800E	0.0	0.0	0.3	0.0	0.1
Pioneer P49T62E	0.0	0.0	0.3	0.0	0.1
Progeny Ag 4241E3	0.0	0.0	0.3	0.0	0.1
Progeny Ag 4682E3	0.0	0.0	0.0	0.7	0.2
Progeny Ag 4775E3S	1.0	0.0	0.0	3.3	1.1
Progeny Ag 4807E3S	0.3	0.0	0.0	0.0	0.1
Progeny Ag 4902E3	0.0	0.0	0.0	0.0	0.0
Progeny Ag 4908E3S	0.0	0.0	0.0	1.7	0.4
USG 7491ETS	0.0	0.0	0.0	0.0	0.0
MSE	102.9	49.5	56.6	64.5	
CV	30.3	20.9	22.5	23.9	
<i>P</i> -value	0.3405	0.5858	0.4832	<0.0001	

Table 11. Maturity Group IV Conventional/LibertyLink/RR Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Olive Branch (N)	Raymond (N)	Verona (N)	AVG
Credenz CZ 4820 LL	0.0	0.0	0.0	0.0
GDM Seeds V 4520 S	0.7	0.7	2.3	1.2
GDM Seeds V 4720 S	0.3	0.3	2.7	1.1
GDM Seeds V 4921 S	0.0	0.0	0.0	0.0
Go Soy 46G19	0.0	0.0	0.3	0.1
Go Soy 48C17S	0.0	0.0	0.0	0.0
Go Soy 49G16	0.0	0.0	1.0	0.3
Go Soy GT Ireane	0.0	0.0	1.0	0.3
Go Soy Ireane	0.0	0.0	0.3	0.1
Local Seed Co. LSX3911GL	0.0	0.0	0.0	0.0
Local Seed Co. LSX4711GL	2.3	2.3	2.0	2.2
Petrus Seed 4619 GTS	0.0	0.0	0.3	0.1
Petrus Seed 4916 GT	0.0	0.0	0.0	0.0
Progeny Ag 4602LR	3.0	3.0	1.0	2.3
Uni. Of Arkansas R15-2422	0.0	0.0	0.7	0.2
Uni. Of Arkansas R16-259	0.3	0.3	0.3	0.3
Uni. Of Missouri S15-10879C	0.3	0.3	0.7	0.4
Uni. Of Missouri S15-3772RY	0.0	0.0	0.7	0.2
Uni. Of Missouri S15-3847R	0.3	0.3	0.0	0.2
Uni. Of Missouri S15-5904RY	0.0	0.0	2.0	0.7
Uni. Of Missouri S16-11644C	0.3	0.3	2.0	0.9
Uni. Of Missouri S16-14379C	0.0	0.0	0.0	0.0
Uni. Of Missouri S16-14730C	0.0	0.0	0.0	0.0
Uni. Of Missouri S16-5540R	0.0	0.0	0.0	0.0
Uni. Of Missouri S16-7875C	0.7	0.7	3.3	1.6
Uni. Of Missouri S16-7922C	0.0	0.0	0.7	0.2
MSE	152.5	152.5	208.8	
CV	31.2	31.2	36.5	
<i>p</i> -value	0.0141	0.0141	<0.0001	

Table 12. Maturity Group V Xtend Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Clarksdale	Verona (N)	AVG
Asgrow AG52X9	0.0	1.3	0.7
Asgrow AG53X0	0.0	0.7	0.4
Asgrow AG53X9	0.0	0.7	0.4
Asgrow AG55X0	0.7	1.0	0.9
Credenz CZ 5000X	0.7	1.3	1.0
Credenz CZ 5251X	0.0	1.0	0.5
Credenz CZ 5299X	0.0	0.0	0.0
Credenz CZ 5420X	0.0	0.0	0.0
Credenz CZ 5700	0.3	0.7	0.5
Delta Grow 52X05/STS	0.3	0.0	0.2
Delta Grow 54X25	0.3	0.0	0.2
Dyna-Gro GS5261X	0.0	3.3	1.7
Dyna-Gro S52XS39 (SX 18652XS)	0.3	0.0	0.2
Dyna-Gro S56XT99	0.7	0.3	0.5
GDM Seeds DM 51X61	0.0	0.0	0.0
Great Heart Seed GT-5214X	0.0	1.0	0.5
Great Heart Seed GT-5417X	0.0	0.7	0.4
Local Seed Co. LS5009XS	1.3	2.7	2.0
Local Seed Co. LS5087X	0.0	0.3	0.2
Local Seed Co. LS5386X	0.7	1.0	0.9
MorSoy MS 5398 RXT	0.3	1.7	1.0
NK S51-R3XS	0.0	0.0	0.0
NK S53-F7X	0.3	2.3	1.3
Pioneer P53A67X	0.0	0.0	0.0
Pioneer P55A49X	0.0	0.0	0.0
Progeny Ag 5016RXS	0.7	1.3	1.0
Progeny Ag 5170RX	0.0	0.7	0.4
Progeny Ag 5252RX	0.0	0.3	0.2
Progeny Ag 5554RX	0.3	0.0	0.2
MSE	302.9	360.7	
CV	39.4	43.2	
<i>p</i> -value	0.5422	0.0088	

Table 13. Maturity Group V Enlist Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Raymond (N)	Verona (N)	AVG
Armor 51-E53	0.3	0.7	0.5
Delta Grow 51E60	0.0	0.3	0.2
Delta Grow 52E15/STS	0.0	0.7	0.4
Go Soy 512E21	0.0	0.0	0.0
Local Seed Co. ZS5098E3	0.0	1.0	0.5
MorSoy MS 5110E	0.0	0.0	0.0
Progeny Ag 5211E3	0.3	0.0	0.2
MSE	8.8	21.0	
CV	26.9	41.7	
<i>p</i> -value	0.4682	0.1821	

Table 14. Maturity Group V Conventional/LibertyLink/RR Frogeye leaf spot ratings (0-9 scale)

Brand Variety	Verona (N)
Go Soy 50G17	0.0
Petrus Seed 5319 GT	0.3
Uni. Of Arkansas R13-14635RR	0.0
Uni. Of Missouri S16-11651C	0.0
Uni. Of Missouri S16-15170C	0.0
Uni. Of Missouri S16-15809C	0.0
Uni. Of Missouri S16-3739RY	0.0
Uni. Of Missouri S16-3747RY	0.0
MSE	6.0
CV	19.6
<i>p</i> -value	0.4706

Table 15. Maturity Group IV early Xtend Septoria brown spot ratings (0-9 scale)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4255RX	4.7	7.0	6.0	7.7	4.7	7.3	5.0	6.3	8.0	7.7	6.4
AgriGold G4620RX	5.7	7.3	6.3	6.3	5.0	7.0	5.7	6.0	8.0	7.3	6.5
Armor 44-D49	4.7	6.3	6.3	7.0	4.7	7.7	6.3	6.3	7.3	7.7	6.4
Armor 44-D92	5.0	8.0	6.3	6.3	4.7	7.7	6.7	6.7	7.3	7.7	6.6
Armor 46-D09	5.3	6.7	6.3	6.7	4.7	7.0	5.7	6.3	7.3	7.0	6.3
Asgrow AG43X0	5.0	8.0	6.3	7.3	5.0	8.0	6.3	6.7	7.7	7.7	6.8
Asgrow AG45X8	4.7	7.3	6.0	7.3	4.7	7.3	6.0	6.0	7.7	8.0	6.5
Asgrow AG46X0	5.3	7.7	6.3	6.7	4.0	7.3	6.0	6.3	7.7	7.3	6.5
Asgrow AG46X6	4.7	7.0	6.0	7.3	4.0	7.3	5.3	6.0	7.3	7.3	6.2
Credenz CZ4280X	4.3	7.7	5.3	6.7	4.7	7.0	6.3	6.3	7.3	7.0	6.3
Credenz CZ4341X	5.0	8.0	6.0	7.3	4.7	7.5	6.0	5.7	7.7	7.0	6.5
Credenz CZ4570X	4.3	7.0	6.3	6.7	5.3	8.0	5.7	6.0	8.0	7.7	6.5
Credenz CZ4600X	5.0	7.0	5.7	6.3	4.7	7.3	6.0	6.0	7.3	7.3	6.3
Delta Grow 46X05/STS	5.0	7.0	6.7	7.0	4.3	7.7	6.3	6.3	8.0	7.7	6.6
Delta Grow 46X65/STS	4.3	7.7	6.3	6.7	4.7	7.3	5.7	5.8	8.0	7.7	6.4
Dyna-Gro S45XS37	5.7	7.0	6.0	7.7	4.0	7.7	5.7	6.7	7.3	7.0	6.5
Dyna-Gro S45XS66	4.7	6.7	6.3	7.0	4.3	7.7	6.0	5.7	8.0	7.7	6.4
Dyna-Gro S46XS60	5.0	7.3	6.0	7.7	3.7	7.7	5.7	7.3	7.7	8.0	6.6
GDM Seeds DM 44X31	5.0	7.3	6.0	7.0	4.3	7.0	5.7	6.0	7.3	7.7	6.3
GDM Seeds DM 45X61	5.7	6.7	5.3	7.3	5.0	7.3	5.7	6.0	8.3	7.7	6.5
Great Heart Seed GT-4677XS	4.7	7.7	6.0	7.0	4.3	7.3	6.3	6.5	7.3	8.0	6.5
LG Seeds LGS4464RX	5.7	8.0	6.0	6.3	6.3	7.5	6.0	6.3	6.7	7.0	6.6
LG Seeds LGS4632RX	4.0	6.7	6.0	6.3	4.7	7.7	5.7	6.7	7.3	8.0	6.3
Local Seed Co. LS3976X	5.7	7.7	5.7	7.0	4.3	7.0	6.3	6.7	8.0	6.5	6.5
Local Seed Co. LS4299XS(LSX4301XS)	5.0	8.0	6.3	6.7	5.3	7.3	6.3	6.0	8.0	7.3	6.6
Local Seed Co. LS4407X (LSX4501X)	5.3	6.7	5.7	7.0	4.7	7.7	6.0	6.0	7.3	7.7	6.4
Local Seed Co. LS4565X	5.0	7.0	6.3	6.0	5.3	8.0	5.7	6.7	8.3	7.3	6.6
Local Seed Co. LS4583X	5.3	7.0	6.3	6.3	5.0	7.7	6.0	6.0	8.0	7.7	6.5
Mission A4448X	5.3	8.0	6.7	7.7	4.3	7.3	6.0	6.7	7.3	7.7	6.7
Mission A4618X	5.0	7.0	6.0	6.3	5.7	7.3	5.7	6.3	7.7	7.0	6.4
MorSoy MS 4616RXT/STS	5.7	8.0	5.7	7.0	4.7	8.0	5.3	6.3	7.3	7.7	6.6
NK S44-C7X	5.7	7.3	6.0	6.7	4.0	7.7	6.0	7.0	8.3	8.0	6.7
Pioneer P42A96X	4.7	8.0	5.7	7.0	6.7	8.0	6.3	6.7	7.7	7.0	6.8
Pioneer P44A72BX	5.0	7.3	5.7	7.3	4.3	7.7	5.7	6.7	7.3	8.0	6.5
Pioneer P46A86X	5.0	7.7	6.3	7.0	5.0	7.3	6.7	6.0	7.7	7.3	6.6
Progeny Ag 4265RXS	4.0	7.0	7.3	6.3	5.3	7.3	6.0	6.3	7.7	8.0	6.5
Progeny Ag 4444RXS	5.0	7.7	6.3	7.0	5.7	7.3	6.7	6.7	8.0	8.0	6.8
Progeny Ag 4505RXS	5.0	7.7	6.0	7.7	5.0	7.0	6.0	6.7	7.7	7.3	6.6
Progeny Ag 4620RXS	5.3	7.3	6.0	7.0	4.7	7.7	5.3	6.0	8.3	7.7	6.5
Terral REV4679X	4.7	7.3	5.7	7.3	5.0	7.3	6.0	6.7	7.0	8.0	6.5
USG 7447XTS	4.7	7.7	6.0	7.3	5.0	7.0	6.0	6.0	8.7	8.0	6.6
USG 7461XTS	4.7	7.3	6.0	7.0	4.0	7.7	6.3	5.3	8.0	8.0	6.4
MSE	916.9	762.3	980.5	929.2	1103.5	935.6	1191.3	1269.7	873.4	768.5	
CV	47.7	43.5	49.3	48.0	52.3	49.8	54.4	56.1	47.3	44.0	
p-value	0.1290	0.0009	0.6798	0.0477	0.6179	0.4260	0.9375	0.8937	0.0782	0.0087	

Table 16. Maturity Group IV Late Xtend Septoria brown spot ratings (0-9 scale)

Brand Variety	Brooksville	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4820RX	5.3	6.0	7.0	7.3	7.0	5.0	7.0	8.0	6.6
AgriGold G4995RX	5.7	6.7	7.7	7.3	7.0	6.0	7.7	7.7	7.0
AGS GS47X19	5.7	6.0	7.7	7.7	7.0	5.0	7.0	7.3	6.7
AGS GS48X19	5.7	6.5	7.5	7.0	7.5	5.0	6.5	7.5	6.7
AGS GS49X21	6.0	6.0	6.7	7.7	6.0	6.3	7.0	8.0	6.7
Armor 48-D25	6.0	6.7	7.0	7.0	7.0	5.7	8.0	8.0	6.9
Armor 49-D14	5.7	5.3	6.7	7.3	6.7	5.7	6.7	8.0	6.5
Asgrow AG48X9	5.7	6.7	7.3	7.0	7.0	6.3	8.0	8.0	7.0
Credenz CZ 4730X	7.0	6.0	7.0	6.3	7.3	6.0	7.7	7.7	6.9
Credenz CZ 4770X	7.0	5.3	7.7	7.7	7.3	5.3	6.7	7.7	6.8
Credenz CZ 4810X	5.7	6.0	7.3	6.7	7.0	6.0	7.0	7.3	6.6
Credenz CZ 4869X	7.3	6.3	7.3	6.7	7.3	6.0	7.7	7.7	7.0
Credenz CZ 4941X	5.7	5.3	7.0	7.7	7.8	5.3	6.7	8.0	6.7
Credenz CZ 4979X	6.7	6.0	7.3	7.3	7.3	6.0	7.3	8.0	7.0
Delta Grow 47X95	6.3	5.7	7.7	7.3	7.7	5.0	7.0	7.7	6.8
Delta Grow 48X05	6.3	5.7	7.3	7.0	7.7	6.0	7.0	8.0	6.9
Delta Grow 48X45	6.0	6.3	7.0	7.0	7.0	5.0	7.7	8.0	6.8
Delta Grow 49X15	6.3	6.0	7.3	7.3	7.3	5.0	7.3	8.3	6.9
Delta Grow 49X25	5.7	5.3	6.7	7.3	7.3	6.0	7.0	8.0	6.7
Dyna-Gro S47XT20	6.7	6.0	7.3	7.0	7.0	5.3	7.7	8.0	6.9
Dyna-Gro S48XT56	6.7	6.3	7.0	7.3	6.7	5.7	7.0	8.0	6.8
Dyna-Gro S48XT90	5.7	5.7	7.7	6.7	6.7	5.7	7.3	8.0	6.7
Dyna-Gro S49XT21	6.7	6.3	7.0	7.7	7.0	5.7	6.3	8.3	6.9
Dyna-Gro S49XT70	5.7	6.3	8.0	7.7	7.3	6.7	7.3	8.7	7.2
GDM Seeds DM 47X39	5.7	5.7	8.0	7.7	7.0	5.0	7.3	7.3	6.7
GDM Seeds DM 49X13	5.3	5.3	7.7	7.3	6.7	5.0	7.0	7.7	6.5
Great Heart Seed GT-4828X	6.3	6.3	8.0	7.7	7.7	5.3	7.7	8.0	7.1
Great Heart Seed GT-4833XS	6.0	5.7	7.3	7.7	7.0	5.7	6.7	8.0	6.8
Great Heart Seed GT-4979X	5.3	6.0	8.0	7.3	7.7	5.3	7.3	8.3	6.9
LG Seeds LGS4899RX	6.0	5.7	8.0	7.7	7.0	5.7	8.0	8.0	7.0
Local Seed Co. LS4795XS (LSX4601XS)	6.7	6.0	7.0	6.7	6.7	5.7	7.7	7.7	6.8
Local Seed Co. LS4999X (LSX4901X)	6.7	6.0	7.7	7.7	7.7	6.0	8.3	7.7	7.2
Local Seed Co. LSX4612XS	6.3	6.3	7.7	7.0	6.7	6.0	7.0	8.0	6.9
Local Seed Co. LSX4812XS	5.7	6.3	7.3	7.0	7.7	6.0	7.3	8.0	6.9
Mission A4828X	6.3	6.0	7.3	7.3	8.0	5.3	7.3	8.3	7.0
Mission A4950X	6.0	6.0	7.7	7.0	6.7	5.0	7.3	8.0	6.7
MorSoy MS 4846 RXT	6.0	5.7	6.7	7.3	7.5	6.7	7.7	8.0	7.0
NK S47-Y9X	5.7	5.7	6.7	7.0	7.3	6.0	7.7	8.0	6.8
NK S49-F5X	6.0	5.7	7.3	7.7	7.0	5.3	8.0	8.0	6.9
Pioneer P48A60X	6.7	5.3	7.7	7.0	7.3	6.0	8.0	8.0	7.0
Progeny Ag 4700RXS	6.3	6.3	7.7	7.7	6.7	5.0	8.0	7.7	6.9
Progeny Ag 4816RX	5.3	6.0	7.0	7.0	6.3	4.7	7.7	8.0	6.5
Progeny Ag 4821RX	6.0	6.0	7.7	7.0	7.0	5.0	8.0	7.7	6.8
Progeny Ag 4851RX	6.0	6.3	7.5	7.5	7.3	5.7	7.5	7.8	7.0
Progeny Ag 4970RX	6.3	5.3	7.7	7.3	6.7	5.0	7.3	8.3	6.7
Taylor Seed T4880XS	6.0	5.3	7.7	7.0	7.3	5.0	7.0	7.7	6.6
Taylor Seed T4990XS	5.3	5.3	7.3	7.7	7.0	6.0	7.3	8.0	6.7
Terral REV4927X	6.3	6.0	7.0	6.7	7.0	5.3	7.3	7.7	6.7
Terral REV4940X	5.7	6.0	7.7	7.0	7.3	6.0	7.0	7.7	6.8
USG 7480XT	5.0	5.7	7.7	7.3	7.3	5.3	6.0	8.0	6.5

Maturity Group IV Late Xtend Septoria brown spot ratings

Septoria brown spot severity rating (0-9 scale)

Brand Variety	Brooksville	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
USG 7489XT	6.3	6.0	7.7	6.7	6.7	5.0	8.0	8.0	6.8
USG 7496XTS	6.3	5.7	6.7	8.0	7.0	6.3	7.7	8.0	7.0
MSE	1147.2	1490.5	1703.9	1433.8	1339.3	1292.5	1420.7	1112.6	
CV	42.7	49.2	52.6	48.3	46.6	45.8	48.0	42.5	
<i>p</i> -value	0.0026	0.3548	0.5195	0.2003	0.1334	0.0062	0.0251	0.6372	

Table 17. Maturity Group IV Enlist Septoria brown spot ratings (0-9 scale)

Brand Variety	Brooksville	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona (N)	AVG
Armor 48-E81	4.7	6.7	3.7	7.0	6.3	5.3	7.7	5.9
Delta Grow 45E28XP	4.7	6.7	5.0	8.0	5.7	5.3	8.7	6.3
Delta Grow 47E20/STS	4.3	6.3	5.0	7.7	7.0	6.0	8.3	6.4
Delta Grow 47E80/STS	4.7	7.0	4.3	7.3	7.0	5.3	8.0	6.2
Delta Grow 48E10	5.0	6.7	4.0	7.3	6.3	5.0	8.0	6.0
Delta Grow 48E49/STS	4.3	6.3	4.7	7.3	6.3	6.7	7.7	6.2
Delta Grow 49E00/STS	4.7	6.7	4.0	7.7	6.3	6.0	8.7	6.3
GDM Seeds DM 48E73	4.7	7.0	4.3	7.7	6.7	5.3	8.0	6.2
Go Soy 463E20S	5.3	7.0	4.3	7.3	7.0	5.3	8.3	6.4
Go Soy 473E20	5.0	6.7	4.7	7.3	6.7	5.7	9.0	6.4
Go Soy 481E19	4.0	6.3	4.3	7.7	6.7	6.0	9.0	6.3
Go Soy 491E19S	4.3	6.7	4.3	7.0	7.0	6.0	8.0	6.2
Local Seed Co. ZS4694E3S (LSX4602ES)	4.3	7.0	4.3	7.3	6.3	6.7	8.0	6.3
MorSoy MS 4800E	5.0	6.7	4.3	7.7	6.0	6.0	8.0	6.2
Pioneer P49T62E	5.0	7.0	5.0	7.3	7.3	5.7	8.0	6.5
Progeny Ag 4241E3	5.0	6.3	5.0	7.3	6.7	6.3	7.7	6.3
Progeny Ag 4682E3	4.3	6.7	4.3	7.3	6.3	6.0	8.3	6.2
Progeny Ag 4775E3S	4.7	7.0	4.0	7.0	7.7	6.0	7.7	6.3
Progeny Ag 4807E3S	4.3	6.7	4.7	7.0	6.3	5.3	8.7	6.1
Progeny Ag 4902E3	5.0	6.3	3.7	7.0	6.3	5.7	8.7	6.1
Progeny Ag 4908E3S	4.7	7.0	5.0	7.3	6.7	5.3	8.0	6.3
USG 7491ETS	4.7	7.0	4.0	7.7	6.3	6.0	8.0	6.2
MSE	262.3	271.1	228.0	195.6	244.7	332.7	229.2	
CV	48.3	49.2	45.1	41.8	46.7	54.4	45.2	
<i>P</i> -value	0.3873	0.7554	0.2447	0.2366	0.0787	0.5200	0.0825	

Table 18. Maturity Group IV Conv Septoria brown spot ratings (0-9 scale)

Brand Variety	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Credenz CZ 4820 LL	5.0	7.3	8.0	6.8
GDM Seeds V 4520 S	4.7	8.0	8.0	6.9
GDM Seeds V 4720 S	3.0	7.0	7.7	5.9
GDM Seeds V 4921 S	3.7	7.0	8.0	6.2
Go Soy 46G19	3.7	7.3	8.0	6.3
Go Soy 48C17S	2.3	7.0	8.0	5.8
Go Soy 49G16	3.0	7.0	8.0	6.0
Go Soy GT Ireane	2.7	7.3	8.0	6.0
Go Soy Ireane	3.0	6.7	8.3	6.0
Local Seed Co. LSX3911GL	4.0	8.0	8.0	6.7
Local Seed Co. LSX4711GL	4.0	7.7	7.7	6.5
Petrus Seed 4619 GTS	3.7	7.7	8.0	6.5
Petrus Seed 4916 GT	2.5	7.7	7.7	6.0
Progeny Ag 4602LR	4.7	7.3	8.0	6.7
Uni. Of Arkansas R15-2422	3.7	7.7	8.0	6.5
Uni. Of Arkansas R16-259	3.3	7.3	7.3	6.0
Uni. Of Missouri S15-10879C	3.7	8.0	8.3	6.7
Uni. Of Missouri S15-3772RY	3.7	7.7	8.0	6.5
Uni. Of Missouri S15-3847R	3.3	7.0	8.0	6.1
Uni. Of Missouri S15-5904RY	3.0	8.0	7.7	6.2
Uni. Of Missouri S16-11644C	3.0	7.0	8.0	6.0
Uni. Of Missouri S16-14379C	3.0	7.0	8.3	6.1
Uni. Of Missouri S16-14730C	3.0	7.3	8.3	6.2
Uni. Of Missouri S16-5540R	3.0	7.3	8.0	6.1
Uni. Of Missouri S16-7875C	5.3	7.7	8.3	7.1
Uni. Of Missouri S16-7922C	3.0	7.7	8.0	6.2
MSE	186.4	300.6	179.7	
CV	35.0	44.5	35.3	
<i>p</i> -value	0.0013	0.0360	0.3394	

Table 19. Maturity Group V Xtend Septoria brown spot ratings (0-9 scale)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Asgrow AG52X9	7.7	7.0	7.0	8.0	5.7	7.0	6.7	7.7	7.1
Asgrow AG53X0	7.3	7.0	8.0	7.3	6.3	7.3	7.0	8.0	7.3
Asgrow AG53X9	7.3	7.7	7.7	6.7	6.3	7.0	6.7	8.3	7.2
Asgrow AG55X0	7.7	7.0	7.3	6.3	5.3	6.3	5.7	7.3	6.6
Credenz CZ 5000X	7.0	6.7	6.7	6.7	5.3	7.0	7.0	8.0	6.8
Credenz CZ 5251X	6.5	7.0	7.3	7.7	6.3	6.3	6.3	7.7	6.9
Credenz CZ 5299X	7.0	8.0	7.3	6.7	6.7	7.0	7.0	7.7	7.2
Credenz CZ 5420X	7.0	7.3	8.0	6.7	5.7	7.0	6.7	7.7	7.0
Credenz CZ 5700	6.3	7.3	7.3	7.3	5.3	5.7	6.0	7.3	6.6
Delta Grow 52X05/STS	6.7	7.0	6.7	7.0	5.7	7.3	6.7	7.7	6.9
Delta Grow 54X25	6.7	7.7	7.3	6.7	5.7	7.3	6.3	8.0	7.0
Dyna-Gro GS5261X	7.0	7.7	7.0	7.7	6.7	7.0	6.7	7.7	7.2
Dyna-Gro S52XS39 (SX 18652XS)	8.0	8.0	8.0	7.0	5.7	7.0	6.7	7.3	7.2
Dyna-Gro S56XT99	7.0	7.3	7.0	7.7	5.7	6.7	7.0	7.7	7.0
GDM Seeds DM 51X61	7.7	8.0	7.7	7.3	5.3	7.3	7.0	7.7	7.3
Great Heart Seed GT-5214X	7.0	7.0	7.7	7.0	5.3	7.0	6.7	7.0	6.8
Great Heart Seed GT-5417X	7.0	8.0	7.3	6.7	6.0	7.3	7.7	7.3	7.2
Local Seed Co. LS5009XS	7.0	7.3	7.3	7.3	6.0	7.7	6.7	7.7	7.1
Local Seed Co. LS5087X	7.0	7.7	6.5	6.7	6.0	7.3	7.0	8.0	7.0
Local Seed Co. LS5386X	6.7	7.7	8.0	6.3	5.7	7.0	6.3	8.0	7.0
MorSoy MS 5398 RXT	7.3	8.0	7.7	7.3	6.7	7.3	6.7	8.0	7.4
NK S51-R3XS	7.3	7.5	7.0	7.0	6.0	7.3	7.0	8.0	7.1
NK S53-F7X	7.3	8.0	7.7	7.0	6.3	6.7	6.7	7.0	7.1
Pioneer P53A67X	7.3	7.3	7.0	8.0	5.3	6.3	6.0	7.7	6.9
Pioneer P55A49X	7.5	7.7	7.3	7.3	5.3	6.7	6.3	7.7	7.0
Progeny Ag 5016RXS	7.0	7.7	7.7	7.0	6.0	7.0	6.7	7.3	7.1
Progeny Ag 5170RX	8.0	7.7	7.7	7.0	6.3	7.3	8.0	7.7	7.5
Progeny Ag 5252RX	7.0	7.7	7.7	7.0	5.3	7.0	7.0	8.0	7.1
Progeny Ag 5554RX	7.3	7.7	7.7	7.7	5.0	7.3	6.3	8.0	7.1
MSE	400.7	320.6	388.3	436.8	472.2	358.5	411.3	404.7	
CV	47.7	41.6	45.3	47.5	49.4	43.0	46.1	45.7	
<i>p</i> -value	0.1510	0.0058	0.0271	0.0970	0.1134	0.0618	0.0825	0.3174	

Table 20. Maturity Group V Enlist Septoria brown spot ratings (0-9 scale)

Brand Variety	Brooksville	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Armor 51-E53	7.3	6.3	7.7	7.3	8.0	7.3	7.3
Delta Grow 51E60	7.0	6.3	6.3	8.0	7.7	7.7	7.2
Delta Grow 52E15/STS	7.3	7.0	6.7	8.0	7.0	7.7	7.3
Go Soy 512E21	7.3	6.3	6.3	8.0	7.3	8.0	7.2
Local Seed Co. ZS5098E3	7.3	6.3	6.7	7.7	7.3	7.7	7.2
MorSoy MS 5110E	7.3	7.0	6.7	7.7	7.0	7.7	7.2
Progeny Ag 5211E3	7.7	6.3	6.7	7.3	7.7	8.0	7.3
MSE	25.3	30.3	26.6	21.9	16.6	20.1	
CV	45.7	50.0	46.9	42.5	37.1	40.8	
<i>p</i> -value	0.9205	0.4791	0.2807	0.3055	0.0650	0.5441	

Table 21. Maturity Group V Conv Septoria brown spot ratings (0-9 scale)

Brand Variety	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Go Soy 50G17	6.3	7.7	7.3	7.1
Petrus Seed 5319 GT	7.0	8.0	7.7	7.6
Uni. Of Arkansas R13-14635RR	5.7	7.7	7.7	7.0
Uni. Of Missouri S16-11651C	5.7	7.7	7.3	6.9
Uni. Of Missouri S16-15170C	6.7	8.0	7.7	7.5
Uni. Of Missouri S16-15809C	6.0	7.7	7.3	7.0
Uni. Of Missouri S16-3739RY	6.0	7.3	7.3	6.9
Uni. Of Missouri S16-3747RY	6.0	8.0	7.7	7.2
MSE	41.4	34.3	52.3	
CV	51.5	46.8	57.8	
<i>p</i> -value	0.4791	0.6723	0.9589	

Table 22. Maturity Group IV early Xtend Southern blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4255RX	1.7	8.0	5.7	3.7	3.0	2.7	4.0	4.7	7.7	1.7	4.3
AgriGold G4620RX	0.0	5.7	0.7	1.0	2.7	0.0	1.7	0.0	5.3	0.3	1.7
Armor 44-D49	0.0	5.7	1.0	2.0	1.0	0.0	0.3	2.3	5.3	0.3	1.8
Armor 44-D92	1.3	7.3	4.0	3.7	2.0	1.3	3.0	2.7	7.0	2.0	3.4
Armor 46-D09	0.3	5.7	0.0	0.3	1.0	0.0	0.7	0.0	4.0	0.0	1.2
Asgrow AG43X0	1.3	7.3	4.7	2.7	3.0	2.0	2.3	1.0	5.0	2.7	3.2
Asgrow AG45X8	0.3	6.3	0.7	1.7	1.3	0.7	1.3	0.7	6.7	1.7	2.1
Asgrow AG46X0	0.3	6.7	0.3	1.0	1.0	0.0	1.3	0.3	5.3	1.7	1.8
Asgrow AG46X6	0.0	7.3	0.0	0.7	1.0	0.0	0.0	0.7	6.0	0.0	1.6
Credenz CZ 4280X	2.0	7.7	5.7	2.7	3.0	1.3	3.0	3.0	8.0	2.3	3.9
Credenz CZ 4341X	1.0	7.7	7.0	5.7	2.3	1.0	4.0	4.3	5.3	2.3	4.1
Credenz CZ 4570X	0.3	7.0	1.0	1.0	1.0	0.3	1.7	1.0	6.7	0.3	2.0
Credenz CZ 4600X	0.3	5.3	0.7	1.0	2.0	0.3	0.3	0.0	3.0	0.0	1.3
Delta Grow 46X05/STS	0.3	6.3	0.0	1.3	1.7	0.0	0.3	0.3	4.0	0.3	1.5
Delta Grow 46X65/STS	0.0	6.7	1.3	1.0	1.0	0.0	4.3	0.8	6.0	0.3	2.1
Dyna-Gro S45XS37	0.3	7.0	0.0	0.3	1.3	0.0	0.7	0.7	5.3	0.0	1.6
Dyna-Gro S45XS66	0.7	5.0	0.7	2.3	1.3	0.0	1.0	1.7	3.7	0.7	1.7
Dyna-Gro S46XS60	1.0	7.0	0.7	1.3	1.3	0.0	2.3	0.0	5.0	0.3	1.9
GDM Seeds DM 44X31	0.7	6.3	1.3	3.7	3.3	0.3	3.7	1.7	7.7	1.7	3.0
GDM Seeds DM 45X61	0.0	6.3	0.7	0.7	2.3	0.3	0.3	0.7	4.0	0.0	1.5
Great Heart Seed GT-4677XS	0.0	6.7	1.0	1.3	2.0	0.0	4.3	0.5	5.3	0.0	2.1
LG Seeds LGS4464RX	2.0	8.3	7.0	6.3	3.3	1.3	5.7	5.3	8.0	1.7	4.9
LG Seeds LGS4632RX	0.3	5.3	0.3	0.7	1.0	0.0	0.3	2.0	3.3	0.7	1.4
Local Seed Co. LS3976X	4.0	7.7	6.7	4.7	7.0	6.3	7.3	8.0	8.7	7.3	6.8
Local Seed Co. LS4299XS(LSX4301XS)	0.7	7.0	4.7	2.3	2.3	1.7	5.3	2.0	7.7	2.0	3.6
Local Seed Co. LS4407X (LSX4501X)	1.0	6.7	1.7	2.0	2.3	0.7	2.7	0.7	7.3	0.3	2.5
Local Seed Co. LS4565X	0.3	7.0	0.7	0.3	1.0	0.0	0.7	0.0	5.3	0.0	1.5
Local Seed Co. LS4583X	0.0	5.3	1.0	1.0	1.3	0.0	0.7	0.0	5.0	0.0	1.4
Mission A4448X	1.0	7.3	5.0	4.3	5.7	0.0	1.0	1.0	6.7	0.7	3.3
Mission A4618X	0.3	5.3	1.0	1.0	1.3	0.0	0.7	1.0	4.7	1.3	1.7
MorSoy MS 4616RXT/STS	0.3	7.0	0.0	0.0	1.0	0.0	0.3	0.7	5.0	0.3	1.5
NK S44-C7X	0.0	8.3	3.0	1.3	1.7	0.7	1.0	0.7	7.7	1.0	2.5
Pioneer P42A96X	1.0	8.7	6.0	4.0	5.0	1.0	5.3	5.7	8.0	2.3	4.7
Pioneer P44A72BX	0.3	7.7	2.0	2.3	1.3	0.3	3.0	1.0	6.0	1.0	2.5
Pioneer P46A86X	0.0	7.3	3.7	2.3	1.7	0.7	3.7	1.3	6.0	1.3	2.8
Progeny Ag 4265RXS	1.3	7.7	5.0	3.7	3.0	2.0	3.3	3.7	7.3	1.7	3.9
Progeny Ag 4444RXS	0.7	6.7	5.0	3.3	2.0	0.7	0.3	0.7	7.3	1.3	2.8
Progeny Ag 4505RXS	0.3	5.3	0.7	1.3	3.0	0.3	0.7	0.3	5.7	0.3	1.8
Progeny Ag 4620RXS	0.7	7.7	0.7	0.7	1.3	0.0	0.7	0.0	4.0	0.3	1.6
Terral REV4679X	0.7	6.0	2.0	1.3	2.3	0.3	1.7	0.7	5.3	0.3	2.1
USG 7447XTS	1.0	7.0	3.7	0.3	1.0	0.0	3.0	1.0	3.0	1.0	2.1
USG 7461XTS	0.0	6.0	1.0	0.3	1.7	0.0	0.3	1.0	4.3	0.3	1.5
MSE	660.0	707.7	246.9	473.5	652.5	429.4	394.3	421.5	601.6	547.3	
CV	40.5	41.9	24.7	34.3	40.2	32.6	31.3	32.3	39.2	37.1	
p-value	<0.0001	0.0009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	

Table 23. Maturity Group IV Late Xtend Southern blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4820RX	1.0	5.7	1.3	1.0	1.3	1.7	1.0	3.0	2.0	2.0
AgriGold G4995RX	0.3	3.7	0.3	1.7	0.7	2.7	1.0	5.3	2.3	2.0
AGS GS47X19	1.3	5.0	0.7	3.7	1.7	5.0	3.3	5.0	2.7	3.2
AGS GS48X19	2.3	6.0	2.0	2.5	0.5	3.0	1.0	5.5	4.0	3.0
AGS GS49X21	1.3	4.3	0.3	1.0	0.0	1.3	0.3	1.7	1.7	1.3
Armor 48-D25	2.3	6.0	1.3	1.0	0.7	2.3	1.0	3.0	1.3	2.1
Armor 49-D14	2.7	4.7	0.0	1.7	0.7	3.0	1.3	5.7	1.7	2.4
Asgrow AG48X9	1.0	5.7	1.0	1.0	0.7	4.3	0.7	4.3	3.0	2.4
Credenz CZ 4730X	0.3	6.3	1.7	2.3	2.3	3.7	1.7	3.0	4.0	2.8
Credenz CZ 4770X	1.0	3.7	0.3	2.0	0.7	2.0	1.3	5.7	1.3	2.0
Credenz CZ 4810X	1.3	6.0	1.7	1.3	1.0	1.7	1.7	3.3	2.3	2.3
Credenz CZ 4869X	1.7	7.3	2.7	3.7	3.7	5.7	2.3	4.7	4.0	4.0
Credenz CZ 4941X	0.3	2.7	0.0	1.0	0.0	0.8	0.3	2.0	1.0	0.9
Credenz CZ 4979X	1.0	7.0	1.3	1.7	1.0	2.3	2.0	2.7	2.3	2.4
Delta Grow 47X95	1.3	5.0	0.3	3.3	1.0	4.0	1.0	5.3	2.7	2.7
Delta Grow 48X05	2.0	5.0	0.3	3.7	1.7	4.0	1.0	4.7	2.3	2.7
Delta Grow 48X45	1.0	4.7	0.7	1.0	2.0	2.3	1.3	2.3	2.3	2.0
Delta Grow 49X15	1.0	5.3	0.3	2.0	0.7	2.3	1.0	5.7	3.7	2.4
Delta Grow 49X25	0.0	3.7	0.7	1.0	1.3	1.7	0.7	1.7	1.3	1.3
Dyna-Gro S47XT20	0.3	5.3	0.0	1.7	1.3	2.7	0.3	2.3	2.7	1.8
Dyna-Gro S48XT56	2.7	5.0	0.7	1.7	1.3	2.0	1.3	3.0	1.7	2.2
Dyna-Gro S48XT90	1.7	4.3	0.7	3.0	0.3	3.7	1.0	6.3	1.7	2.5
Dyna-Gro S49XT21	0.7	3.7	0.3	1.0	0.7	1.0	0.3	1.7	2.3	1.3
Dyna-Gro S49XT70	0.3	5.7	0.0	1.7	0.7	2.7	1.0	3.3	1.7	1.9
GDM Seeds DM 47X39	1.0	5.3	0.3	2.0	0.3	1.7	1.0	6.3	2.3	2.2
GDM Seeds DM 49X13	0.7	3.3	0.3	1.3	0.7	2.7	1.0	5.7	1.3	1.9
Great Heart Seed GT-4828X	1.3	6.3	0.3	3.7	0.7	3.7	1.7	5.0	3.0	2.9
Great Heart Seed GT-4833XS	1.7	4.7	0.7	2.3	0.3	3.0	0.3	2.7	2.3	2.0
Great Heart Seed GT-4979X	0.7	5.0	0.3	1.7	0.3	2.3	1.0	4.3	1.7	1.9
LG Seeds LGS4899RX	0.7	6.3	1.0	2.7	0.3	4.3	0.7	6.3	2.7	2.8
Local Seed Co. LS4795XS (LSX4601XS)	1.7	7.0	1.3	2.3	1.0	5.0	1.3	6.0	3.3	3.2
Local Seed Co. LS4999X (LSX4901X)	0.7	6.0	0.3	3.0	2.0	4.0	2.0	3.0	3.7	2.7
Local Seed Co. LSX4612XS	2.0	6.0	1.0	2.7	1.7	2.0	2.3	4.7	4.0	2.9
Local Seed Co. LSX4812XS	0.7	5.0	1.0	1.3	0.3	6.0	1.0	4.0	2.3	2.4
Mission A4828X	1.3	4.0	0.7	2.7	0.7	2.3	0.7	2.7	1.7	1.9
Mission A4950X	0.7	5.0	0.0	1.3	0.3	3.7	1.0	4.3	2.0	2.0
MorSoy MS 4846 RXT	1.0	5.3	0.3	1.3	0.7	3.5	0.7	4.0	1.3	2.0
NK S47-Y9X	1.0	6.7	1.0	1.0	2.0	3.7	1.0	4.0	2.7	2.6
NK S49-F5X	0.7	5.7	0.3	1.0	1.0	4.0	0.7	3.7	2.7	2.2
Pioneer P48A60X	1.3	8.7	2.0	3.0	2.3	5.0	2.7	7.3	3.3	4.0
Progeny Ag 4700RXS	2.3	5.3	0.7	3.0	0.7	2.7	2.7	2.3	2.7	2.5
Progeny Ag 4816RX	0.3	5.0	0.3	1.0	1.0	2.0	0.7	2.0	1.7	1.6
Progeny Ag 4821RX	0.7	5.7	0.3	2.3	2.0	3.0	1.3	4.3	2.3	2.4
Progeny Ag 4851RX	1.8	6.8	0.8	2.3	1.0	5.0	3.3	5.8	3.5	3.4
Progeny Ag 4970RX	1.0	2.3	0.0	1.0	0.3	4.0	1.3	6.0	2.0	2.0
Taylor Seed T4880XS	0.7	5.3	0.3	1.0	2.3	2.3	0.7	2.7	1.7	1.9
Taylor Seed T4990XS	0.0	4.3	0.0	1.0	0.3	2.3	0.3	1.7	2.7	1.4
Terral REV4927X	2.0	7.3	3.3	2.3	3.0	5.0	1.3	4.3	2.3	3.4
Terral REV4940X	2.0	8.0	1.0	2.7	1.0	3.3	1.0	4.7	3.0	3.0
USG 7480XT	1.3	4.7	0.3	3.3	0.7	3.7	1.7	6.3	1.7	2.6

Maturity Group IV Late Xtend Southern blight ratings

Southern blight severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
USG 7489XT	0.7	4.7	0.3	1.3	1.3	1.7	1.0	1.3	2.0	1.6
USG 7496XTS	1.3	4.0	0.0	1.0	1.0	2.3	0.7	1.3	2.0	1.5
MSE	1191.9	650.1	1063.9	964.4	1258.1	1060.7	739.3	806.8	1105.1	
CV	43.7	32.5	41.6	39.6	45.2	41.5	34.6	36.2	42.3	
<i>p</i> -value	0.0002	<0.0001	<0.0001	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	

Table 24. Maturity Group IV Enlist Southern blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona (N)	AVG
Armor 48-E81	1.3	8.3	1.0	1.0	0.7	0.7	1.0	2.0
Delta Grow 45E28XP	0.3	4.7	2.3	2.7	1.3	1.0	2.0	2.0
Delta Grow 47E20/STS	0.7	8.0	3.7	2.7	3.7	1.0	3.3	3.3
Delta Grow 47E80/STS	0.3	7.3	1.7	1.7	2.3	1.3	3.7	2.6
Delta Grow 48E10	0.3	6.0	1.0	1.0	0.3	1.0	1.0	1.5
Delta Grow 48E49/STS	1.3	8.3	1.0	1.3	1.3	1.0	2.7	2.4
Delta Grow 49E00/STS	1.0	8.0	1.3	1.0	0.3	0.7	1.3	1.9
GDM Seeds DM 48E73	0.7	7.3	3.7	1.0	1.3	1.3	0.7	2.3
Go Soy 463E20S	0.7	7.7	6.3	2.7	4.0	2.0	2.7	3.7
Go Soy 473E20	1.3	7.7	3.3	2.0	1.0	1.0	2.0	2.6
Go Soy 481E19	0.3	6.0	3.3	1.3	1.3	1.0	1.0	2.0
Go Soy 491E19S	1.3	3.7	1.0	1.3	1.7	0.7	1.0	1.5
Local Seed Co. ZS4694E3S (LSX4602ES)	0.3	8.0	1.3	2.3	2.3	1.0	1.7	2.4
MorSoy MS 4800E	1.0	7.3	3.0	1.3	1.7	1.3	1.7	2.5
Pioneer P49T62E	0.3	6.7	2.0	1.7	2.0	1.0	1.0	2.1
Progeny Ag 4241E3	2.3	8.7	4.7	3.0	5.7	3.7	6.7	5.0
Progeny Ag 4682E3	1.0	8.0	1.7	2.3	2.0	2.7	3.3	3.0
Progeny Ag 4775E3S	0.7	7.7	4.3	2.0	4.7	2.0	1.7	3.3
Progeny Ag 4807E3S	1.0	7.7	2.0	1.0	3.3	1.7	3.3	2.9
Progeny Ag 4902E3	0.7	8.0	1.3	1.3	1.3	1.0	1.0	2.1
Progeny Ag 4908E3S	0.0	4.0	1.3	1.7	2.3	1.0	1.0	1.6
USG 7491ETS	1.7	7.7	1.7	1.0	0.3	1.0	1.0	2.1
MSE	212.6	87.9	130.3	201.8	118.9	191.9	121.7	
CV	43.5	27.9	34.1	42.4	32.6	41.4	32.9	
<i>P</i> -value	0.0117	<0.0001	<0.0001	0.0044	<0.0001	0.0235	<0.0001	

Table 25. Maturity Group IV Conventional/LL/RR Southern blight ratings (0-9 scale)

Brand Variety	Brooksville (N)	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Credenz CZ 4820 LL	7.0	0.0	1.7	1.7	2.6
GDM Seeds V 4520 S	6.7	0.0	1.0	2.0	2.4
GDM Seeds V 4720 S	5.7	0.0	2.0	1.0	2.2
GDM Seeds V 4921 S	6.3	0.0	1.3	0.7	2.1
Go Soy 46G19	7.7	0.0	1.0	2.3	2.8
Go Soy 48C17S	6.0	0.0	3.0	1.7	2.7
Go Soy 49G16	4.3	0.0	2.0	1.7	2.0
Go Soy GT Ireane	4.3	0.0	0.3	1.0	1.4
Go Soy Ireane	4.3	0.0	0.7	1.0	1.5
Local Seed Co. LSX3911GL	8.7	1.0	3.0	6.7	4.9
Local Seed Co. LSX4711GL	7.7	0.0	2.0	5.7	3.9
Petrus Seed 4619 GTS	8.0	0.0	1.0	2.7	2.9
Petrus Seed 4916 GT	4.3	0.3	2.3	2.0	2.2
Progeny Ag 4602LR	8.0	0.3	1.0	4.7	3.5
Uni. Of Arkansas R15-2422	4.7	1.3	2.3	5.7	3.5
Uni. Of Arkansas R16-259	3.7	0.0	1.0	1.0	1.4
Uni. Of Missouri S15-10879C	9.0	0.0	1.3	2.7	3.3
Uni. Of Missouri S15-3772RY	3.7	0.0	1.3	2.3	1.8
Uni. Of Missouri S15-3847R	8.0	0.0	1.3	1.0	2.6
Uni. Of Missouri S15-5904RY	7.3	0.0	1.0	1.3	2.4
Uni. Of Missouri S16-11644C	3.7	0.0	1.3	1.0	1.5
Uni. Of Missouri S16-14379C	6.7	0.0	1.7	1.0	2.4
Uni. Of Missouri S16-14730C	6.3	0.0	1.3	1.0	2.2
Uni. Of Missouri S16-5540R	3.7	0.0	1.0	1.0	1.4
Uni. Of Missouri S16-7875C	3.3	0.7	1.7	2.7	2.1
Uni. Of Missouri S16-7922C	3.0	0.0	1.0	3.0	1.8
MSE	96.7	78.3	255.6	229.0	
CV	24.9	22.7	40.9	39.8	
<i>p</i> -value	<0.0001	0.6172	0.0024	0.0004	

Table 26. Maturity Group V Xtend Southern blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Asgrow AG52X9	3.0	4.7	2.0	2.0	0.0	1.3	3.3	2.3	2.3
Asgrow AG53X0	3.3	5.7	1.3	2.7	0.0	1.0	1.7	2.0	2.2
Asgrow AG53X9	3.7	5.7	2.0	1.0	0.3	2.0	3.0	2.3	2.5
Asgrow AG55X0	6.7	5.7	3.0	1.3	2.3	4.0	5.3	4.7	4.1
Credenz CZ 5000X	2.0	5.7	3.7	2.0	0.7	1.7	4.7	2.7	2.9
Credenz CZ 5251X	2.7	4.3	1.7	1.7	0.0	1.7	2.0	1.7	2.0
Credenz CZ 5299X	3.7	1.0	4.0	2.0	0.0	1.7	1.0	1.0	1.8
Credenz CZ 5420X	3.3	3.0	4.0	1.0	0.0	2.7	1.7	2.7	2.3
Credenz CZ 5700	1.0	1.0	1.0	0.0	0.0	0.3	0.7	1.0	0.6
Delta Grow 52X05/STS	2.3	1.7	3.7	1.0	0.3	1.7	1.7	1.7	1.8
Delta Grow 54X25	5.7	4.7	4.3	0.7	0.7	6.3	5.0	3.7	3.9
Dyna-Gro GS5261X	3.3	5.0	3.0	1.3	0.0	1.0	3.3	1.3	2.3
Dyna-Gro S52XS39 (SX 18652XS)	3.7	1.3	4.0	1.7	0.0	2.3	1.3	1.3	2.0
Dyna-Gro S56XT99	5.7	2.0	3.0	1.0	0.0	3.7	3.0	1.3	2.5
GDM Seeds DM 51X61	3.3	4.3	4.0	4.3	0.0	1.3	2.7	1.7	2.7
Great Heart Seed GT-5214X	3.3	1.3	2.7	1.3	1.7	1.0	1.3	1.0	1.7
Great Heart Seed GT-5417X	3.7	5.0	4.0	4.3	0.3	1.7	3.0	2.0	3.0
Local Seed Co. LS5009XS	2.0	5.3	3.0	1.0	0.0	1.7	2.7	2.7	2.3
Local Seed Co. LS5087X	3.7	4.7	3.7	1.3	1.0	1.0	2.7	2.3	2.6
Local Seed Co. LS5386X	3.0	4.3	1.7	0.7	0.0	1.3	2.3	1.3	1.8
MorSoy MS 5398 RXT	2.3	3.7	1.7	1.0	0.3	1.0	2.7	1.3	1.8
NK S51-R3XS	3.0	6.7	1.7	2.3	0.3	1.0	2.0	2.3	2.4
NK S53-F7X	4.3	5.0	2.0	1.0	0.0	1.3	1.0	1.3	2.0
Pioneer P53A67X	6.3	5.7	5.7	1.7	1.0	7.7	5.7	6.3	5.0
Pioneer P55A49X	4.3	4.3	3.0	0.7	1.7	4.0	4.0	2.7	3.1
Progeny Ag 5016RXS	3.0	5.0	1.7	1.0	0.7	1.0	3.3	2.3	2.3
Progeny Ag 5170RX	4.0	7.0	2.7	2.7	0.3	1.0	2.3	2.3	2.8
Progeny Ag 5252RX	2.3	1.7	3.7	1.3	0.0	1.7	1.7	2.7	1.9
Progeny Ag 5554RX	5.3	2.7	2.0	0.7	0.3	1.7	3.3	1.7	2.2
MSE	335.9	192.3	340.5	288.5	290.3	179.9	305.3	389.2	
CV	42.6	31.5	41.9	38.6	38.7	30.5	39.7	44.8	
<i>p</i> -value	<0.0001	<0.0001	0.0001	<0.0001	0.0222	<0.0001	<0.0001	0.0020	

Table 27. Maturity Group V Enlist Southern blight ratings (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Armor 51-E53	4.7	6.0	1.0	0.3	2.0	2.3	2.7
Delta Grow 51E60	3.3	8.0	1.3	1.3	2.0	4.7	3.4
Delta Grow 52E15/STS	3.3	4.7	1.0	0.7	1.3	3.3	2.4
Go Soy 512E21	2.3	8.7	1.0	1.0	2.3	4.0	3.2
Local Seed Co. ZS5098E3	4.0	5.7	1.0	1.0	1.7	3.3	2.8
MorSoy MS 5110E	2.7	8.3	1.3	0.7	2.0	4.7	3.3
Progeny Ag 5211E3	4.7	6.7	1.0	1.0	2.0	3.0	3.1
MSE	25.4	12.1	11.4	14.2	36.3	15.2	
CV	45.9	31.6	30.7	34.3	54.8	35.4	
<i>p</i> -value	0.0863	0.0013	0.6084	0.1335	0.9057	0.1186	

Table 28. Maturity Group V Conventional/LL/RR Southern blight ratings (0-9 scale)

Brand Variety	Brooksville (N)	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Go Soy 50G17	6.0	2.0	6.7	6.0	5.2
Petrus Seed 5319 GT	6.7	0.0	1.3	2.3	2.6
Uni. Of Arkansas R13-14635RR	1.3	0.0	1.3	2.3	1.2
Uni. Of Missouri S16-11651C	2.3	0.3	2.7	1.0	1.6
Uni. Of Missouri S16-15170C	3.0	0.3	1.3	2.0	1.7
Uni. Of Missouri S16-15809C	2.3	0.0	4.0	2.3	2.2
Uni. Of Missouri S16-3739RY	4.3	0.0	3.3	2.3	2.5
Uni. Of Missouri S16-3747RY	6.0	0.0	3.7	3.7	3.4
MSE	7.9	8.4	11.9	17.4	
CV	22.4	23.2	27.6	33.4	
<i>p</i> -value	<0.0001	0.0011	<0.0001	0.0063	

Table 29. Maturity Group IV early Xtend Target spot ratings (0-9 scale)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4255RX	5.3	7.7	6.0	7.3	4.0	6.0	5.0	7.0	7.0	6.0	6.1
AgriGold G4620RX	6.3	8.7	5.7	6.7	5.3	6.0	6.0	6.3	6.3	6.3	6.4
Armor 44-D49	4.7	6.7	6.7	6.7	4.7	6.3	5.0	5.7	7.3	6.7	6.1
Armor 44-D92	5.3	7.7	5.7	7.3	4.3	7.0	6.0	6.7	7.3	6.3	6.4
Armor 46-D09	5.3	7.0	5.0	6.3	4.0	7.0	5.7	6.0	6.3	6.3	5.9
Asgrow AG43X0	4.3	7.7	5.7	6.7	3.7	6.3	6.3	6.3	7.3	6.0	6.0
Asgrow AG45X8	4.7	7.3	5.7	6.7	3.7	7.0	5.3	7.3	6.7	7.0	6.1
Asgrow AG46X0	5.3	8.3	6.7	6.3	4.3	7.0	5.3	6.3	7.0	6.3	6.3
Asgrow AG46X6	5.0	7.7	5.3	6.7	3.7	7.0	5.0	6.3	6.3	5.3	5.8
Credenz CZ 4280X	4.3	7.0	5.3	5.7	5.0	7.0	5.0	7.7	5.7	6.7	5.9
Credenz CZ 4341X	5.7	7.3	6.0	7.3	4.0	7.0	6.0	6.7	6.3	6.3	6.3
Credenz CZ 4570X	5.3	7.3	5.3	6.7	4.7	6.7	5.3	7.3	6.7	6.7	6.2
Credenz CZ 4600X	5.0	7.0	5.0	6.7	5.0	6.0	5.0	6.3	6.7	6.0	5.9
Delta Grow 46X05/STS	5.0	8.0	5.7	6.0	3.7	6.7	5.7	6.0	7.3	6.0	6.0
Delta Grow 46X65/STS	5.0	7.3	5.0	6.7	4.7	6.3	6.0	7.3	7.3	6.7	6.2
Dyna-Gro S45XS37	4.7	7.3	5.0	6.3	4.0	6.7	4.7	7.0	7.7	7.0	6.0
Dyna-Gro S45XS66	5.0	7.0	5.7	6.0	3.7	7.0	6.0	6.0	7.0	6.7	6.0
Dyna-Gro S46XS60	4.7	7.7	6.0	7.0	4.0	7.0	4.7	7.0	7.3	6.0	6.1
GDM Seeds DM 44X31	5.0	7.0	5.7	7.7	4.7	7.0	5.3	7.7	6.0	6.3	6.2
GDM Seeds DM 45X61	5.3	7.7	5.0	6.3	4.3	7.7	5.0	7.0	8.0	7.0	6.3
Great Heart Seed GT-4677XS	5.0	8.0	5.7	6.3	5.0	6.3	6.3	6.5	6.7	6.3	6.2
LG Seeds LGS4464RX	5.3	7.0	5.7	7.0	4.3	7.0	5.7	7.3	6.3	6.7	6.2
LG Seeds LGS4632RX	4.7	7.0	5.3	6.3	4.7	6.3	5.0	6.7	6.0	6.7	5.9
Local Seed Co. LS3976X	4.7	6.7	5.3	6.0	4.3	7.0	5.0	6.7	7.0	6.0	5.9
Local Seed Co. LS4299XS(LSX4301XS)	5.7	8.0	6.3	6.0	4.7	6.0	7.0	7.3	6.3	6.0	6.3
Local Seed Co. LS4407X (LSX4501X)	5.3	7.0	6.0	6.0	3.7	7.0	5.3	6.7	6.3	6.3	6.0
Local Seed Co. LS4565X	5.0	6.7	4.7	6.3	4.0	7.7	5.7	6.3	7.7	7.3	6.1
Local Seed Co. LS4583X	4.7	7.0	7.0	6.7	4.3	7.0	7.0	6.0	6.7	7.3	6.4
Mission A4448X	5.7	7.7	5.7	6.3	4.3	6.7	6.0	6.0	5.7	6.0	6.0
Mission A4618X	5.0	7.7	4.3	7.0	4.7	6.7	7.0	8.0	6.7	6.7	6.4
MorSoy MS 4616RXT/STS	5.0	8.0	4.7	6.7	4.3	7.0	5.7	7.0	7.3	7.7	6.3
NK S44-C7X	4.7	6.3	5.0	7.0	4.3	7.0	5.3	6.7	7.0	7.7	6.1
Pioneer P42A96X	4.7	7.7	6.0	6.7	5.0	6.0	5.7	7.7	8.0	7.3	6.5
Pioneer P44A72BX	5.3	7.3	5.3	6.0	3.7	6.3	5.3	6.3	7.0	6.3	5.9
Pioneer P46A86X	5.7	7.7	5.0	6.3	5.0	6.3	5.3	7.7	6.0	7.3	6.2
Progeny Ag 4265RXS	4.7	7.7	6.0	8.0	4.0	6.3	5.7	7.0	6.3	6.7	6.2
Progeny Ag 4444RXS	5.0	7.0	5.3	6.7	5.7	6.7	6.7	7.7	7.0	6.7	6.5
Progeny Ag 4505RXS	5.0	7.3	5.0	6.7	5.0	6.7	5.7	6.3	6.3	6.3	6.0
Progeny Ag 4620RXS	5.0	7.3	5.3	7.0	4.0	7.0	5.3	5.3	7.0	7.0	6.0
Terral REV4679X	4.7	6.7	5.3	6.0	4.0	6.3	6.0	6.3	6.7	6.7	5.9
USG 7447XTS	4.7	7.0	5.3	6.0	4.3	7.0	5.0	5.3	7.7	6.0	5.8
USG 7461XTS	4.3	7.3	6.7	6.7	3.7	7.3	5.3	7.0	7.0	7.0	6.2
MSE	1405.3	919.7	913.0	1033.9	867.4	959.9	1183.2	1274.2	988.4	1135.3	
CV	59.0	47.8	47.6	50.6	46.4	50.4	54.2	56.2	50.3	53.5	
p-value	0.9630	0.0554	0.0125	0.2092	0.2606	0.2589	0.5009	0.7700	0.0526	0.4919	

Table 30. Maturity Group IV Late Xtend Target spot ratings (0-9 scale)

Brand Variety	Brooksville	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
AgriGold G4820RX	5.3	5.0	5.3	0.0	7.0	6.0	4.3	6.0	6.0	5.0
AgriGold G4995RX	5.3	5.0	6.0	0.0	6.3	6.0	6.3	7.3	6.3	5.4
AGS GS47X19	5.3	5.3	6.3	0.0	6.0	7.0	4.7	6.0	5.7	5.1
AGS GS48X19	5.0	6.0	6.5	0.0	7.5	6.5	5.0	6.5	5.0	5.3
AGS GS49X21	4.7	5.3	5.3	0.0	6.3	7.7	5.3	7.0	6.0	5.3
Armor 48-D25	5.3	6.0	6.0	0.0	6.3	5.7	5.0	7.3	5.7	5.3
Armor 49-D14	5.0	5.0	6.0	0.0	6.7	6.0	4.7	5.7	5.0	4.9
Asgrow AG48X9	5.3	5.7	6.0	2.3	6.3	6.0	4.7	8.0	5.0	5.5
Credenz CZ 4730X	5.7	5.0	5.7	0.0	6.0	6.3	5.0	6.7	5.7	5.1
Credenz CZ 4770X	5.3	4.0	6.0	0.0	5.7	6.0	5.0	6.7	5.0	4.9
Credenz CZ 4810X	4.3	6.0	5.7	0.0	6.3	6.7	5.7	6.3	5.3	5.1
Credenz CZ 4869X	5.7	6.3	6.0	0.0	6.7	5.7	5.0	7.0	5.3	5.3
Credenz CZ 4941X	4.7	5.0	6.3	0.0	7.3	6.8	5.3	6.0	5.0	5.2
Credenz CZ 4979X	5.7	5.3	6.0	0.0	6.7	6.0	5.3	6.3	6.3	5.3
Delta Grow 47X95	5.3	5.0	6.0	0.0	7.0	7.0	5.0	6.3	5.0	5.2
Delta Grow 48X05	6.0	5.7	5.0	0.0	6.3	6.3	4.7	6.7	6.3	5.2
Delta Grow 48X45	5.0	5.3	5.7	0.0	5.7	5.3	4.7	6.3	5.0	4.8
Delta Grow 49X15	5.0	5.3	6.7	0.0	6.3	7.0	4.3	6.7	5.7	5.2
Delta Grow 49X25	5.0	5.3	5.7	0.0	7.3	5.3	4.7	6.7	6.0	5.1
Dyna-Gro S47XT20	6.0	6.3	6.3	0.0	6.3	6.3	6.0	6.3	5.0	5.4
Dyna-Gro S48XT56	5.3	6.3	5.3	0.0	7.3	7.0	5.3	6.7	5.0	5.4
Dyna-Gro S48XT90	5.0	5.3	5.7	0.0	6.0	6.0	5.7	6.7	6.3	5.2
Dyna-Gro S49XT21	6.0	6.7	5.7	0.0	7.7	7.0	5.3	6.0	5.7	5.6
Dyna-Gro S49XT70	5.7	6.0	6.0	0.0	7.7	7.0	6.0	6.7	5.7	5.6
GDM Seeds DM 47X39	4.3	5.3	6.3	0.0	7.0	6.0	4.7	6.3	5.0	5.0
GDM Seeds DM 49X13	5.3	5.0	5.7	0.0	6.0	6.0	5.0	6.3	6.0	5.0
Great Heart Seed GT-4828X	5.7	6.3	6.3	0.0	8.0	7.7	5.7	6.0	5.3	5.7
Great Heart Seed GT-4833XS	6.0	5.7	5.0	0.0	6.3	6.3	5.7	7.0	6.0	5.3
Great Heart Seed GT-4979X	5.3	6.0	6.3	0.0	6.3	7.3	4.3	6.3	5.3	5.2
LG Seeds LGS4899RX	5.0	5.7	6.3	0.0	6.0	5.3	5.7	6.0	5.0	5.0
Local Seed Co. LS4795XS (LSX4601XS)	5.7	5.7	6.0	0.0	6.7	6.7	5.3	7.3	5.0	5.4
Local Seed Co. LS4999X (LSX4901X)	6.7	6.0	6.7	0.0	7.7	6.7	5.0	8.0	5.0	5.8
Local Seed Co. LSX4612XS	5.3	5.7	6.3	0.0	6.7	7.0	5.3	6.7	5.3	5.4
Local Seed Co. LSX4812XS	5.7	6.0	5.7	0.0	6.7	6.7	5.0	6.7	5.3	5.3
Mission A4828X	5.3	5.7	6.3	2.7	6.7	7.0	5.0	6.7	4.7	5.6
Mission A4950X	5.0	5.0	6.0	0.0	7.0	6.3	4.3	7.3	5.0	5.1
MorSoy MS 4846 RXT	5.3	5.3	6.3	0.0	5.7	5.5	5.3	7.7	5.7	5.2
NK S47-Y9X	5.7	5.0	6.0	0.0	6.3	4.7	5.0	7.7	5.0	5.0
NK S49-F5X	6.0	4.7	5.7	2.0	6.7	5.3	4.7	7.3	5.0	5.3
Pioneer P48A60X	5.7	5.0	6.7	0.0	6.7	6.3	4.3	7.3	5.0	5.2
Progeny Ag 4700RXS	5.7	5.7	6.3	0.0	6.7	6.3	5.0	6.7	5.3	5.3
Progeny Ag 4816RX	5.3	6.3	6.3	0.0	6.3	6.0	4.7	7.0	4.7	5.2
Progeny Ag 4821RX	6.0	5.3	5.7	0.0	6.0	6.7	4.7	7.0	5.3	5.2
Progeny Ag 4851RX	6.0	5.8	6.5	0.0	6.5	6.5	5.0	6.5	5.5	5.4
Progeny Ag 4970RX	5.7	4.3	5.7	0.0	6.7	6.0	4.7	7.0	5.0	5.0
Taylor Seed T4880XS	5.0	5.3	5.3	0.0	6.3	6.3	4.3	6.3	5.0	4.9
Taylor Seed T4990XS	5.0	4.7	6.0	0.0	6.0	6.0	6.0	7.3	5.3	5.1
Terral REV4927X	5.3	5.3	5.7	0.0	5.3	6.0	4.7	6.0	5.3	4.8
Terral REV4940X	4.7	5.7	6.3	0.0	7.0	6.3	6.0	7.3	5.0	5.4
USG 7480XT	4.7	5.0	6.7	0.0	6.7	6.7	5.0	6.0	6.3	5.2

Maturity Group IV Late Xtend Target spot ratings

target spot severity rating (0-9 scale)

Brand Variety	Brooksville	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo (N)	Verona (N)	AVG
USG 7489XT	5.3	5.7	6.3	0.0	6.7	6.7	4.7	5.7	5.3	5.2
USG 7496XTS	6.0	5.3	5.7	0.0	7.0	5.7	6.0	6.7	5.3	5.3
MSE	1751.3	1582.3	1914.0	117.0	1447.2	1678.4	1745.3	1757.0	1504.7	
CV	52.9	50.7	55.7	13.8	48.5	52.2	53.2	53.4	49.4	
<i>p</i> -value	0.6424	0.1644	0.8046	0.5542	0.0152	0.1272	0.3776	0.2839	0.2969	

Table 31. Maturity Group IV Enlist Target spot ratings (0-9 scale)

Brand Variety	Brooksville	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona (N)	AVG
Armor 48-E81	4.7	6.0	4.0	7.0	5.0	5.7	5.0	5.3
Delta Grow 45E28XP	6.0	6.3	5.7	7.3	4.7	5.3	6.3	5.9
Delta Grow 47E20/STS	5.0	6.7	6.0	6.3	7.0	5.7	5.7	6.1
Delta Grow 47E80/STS	5.7	6.7	4.3	7.7	6.0	4.7	6.0	5.9
Delta Grow 48E10	5.0	6.3	4.3	7.0	6.3	5.0	5.3	5.6
Delta Grow 48E49/STS	4.7	6.7	4.3	7.0	5.7	7.0	6.0	5.9
Delta Grow 49E00/STS	6.0	6.7	5.0	7.0	5.3	6.3	6.3	6.1
GDM Seeds DM 48E73	5.0	6.7	5.3	7.7	5.0	5.7	5.0	5.8
Go Soy 463E20S	5.3	6.3	5.0	7.0	5.7	5.0	5.3	5.7
Go Soy 473E20	5.7	6.3	5.0	6.7	5.7	5.3	5.3	5.7
Go Soy 481E19	4.7	6.0	4.7	7.0	6.3	4.7	6.3	5.7
Go Soy 491E19S	7.3	6.7	5.7	7.0	6.7	6.0	5.7	6.4
Local Seed Co. ZS4694E3S (LSX4602ES)	4.7	6.7	4.3	7.0	5.7	6.7	5.7	5.8
MorSoy MS 4800E	5.0	6.7	4.7	6.7	5.3	5.7	6.0	5.7
Pioneer P49T62E	6.0	7.0	5.3	7.3	5.3	5.7	5.7	6.0
Progeny Ag 4241E3	5.0	6.3	5.3	7.3	5.7	5.3	6.3	5.9
Progeny Ag 4682E3	5.3	7.3	4.0	7.3	5.0	5.0	5.7	5.7
Progeny Ag 4775E3S	5.0	7.7	4.3	6.7	6.3	6.0	6.3	6.0
Progeny Ag 4807E3S	5.7	6.0	5.0	6.3	5.3	4.7	6.3	5.6
Progeny Ag 4902E3	5.3	6.3	4.3	6.7	6.0	5.7	5.3	5.7
Progeny Ag 4908E3S	7.7	7.0	6.0	7.3	6.0	5.0	6.7	6.5
USG 7491ETS	4.7	7.0	4.0	7.0	5.3	6.7	5.3	5.7
MSE	218.0	277.7	215.2	341.4	297.1	349.3	309.4	
CV	44.1	49.7	43.8	55.2	51.5	55.8	52.5	
<i>P</i> -value	0.0038	0.3649	0.1003	0.8825	0.1494	0.6993	0.6570	

Table 32. Maturity Group IV Conventional/LL/RR Target spot ratings (0-9 scale)

Brand Variety	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Credenz CZ 4820 LL	5.0	7.7	6.7	6.5
GDM Seeds V 4520 S	3.3	7.0	6.3	5.5
GDM Seeds V 4720 S	3.0	6.3	5.7	5.0
GDM Seeds V 4921 S	3.7	7.3	6.3	5.8
Go Soy 46G19	3.3	6.3	6.3	5.3
Go Soy 48C17S	2.0	6.0	5.3	4.4
Go Soy 49G16	2.3	6.3	6.3	5.0
Go Soy GT Ireane	2.3	7.0	5.7	5.0
Go Soy Ireane	2.3	6.0	5.7	4.7
Local Seed Co. LSX3911GL	3.3	7.0	7.0	5.8
Local Seed Co. LSX4711GL	3.7	6.0	5.7	5.1
Petrus Seed 4619 GTS	3.3	7.7	7.0	6.0
Petrus Seed 4916 GT	2.5	6.0	5.3	4.6
Progeny Ag 4602LR	3.3	6.3	5.0	4.9
Uni. Of Arkansas R15-2422	3.7	7.3	6.0	5.7
Uni. Of Arkansas R16-259	3.3	6.3	6.0	5.2
Uni. Of Missouri S15-10879C	4.0	6.0	5.7	5.2
Uni. Of Missouri S15-3772RY	3.7	6.7	7.7	6.0
Uni. Of Missouri S15-3847R	2.3	6.7	5.7	4.9
Uni. Of Missouri S15-5904RY	3.0	7.0	5.3	5.1
Uni. Of Missouri S16-11644C	3.3	6.3	7.0	5.5
Uni. Of Missouri S16-14379C	3.7	7.0	6.3	5.7
Uni. Of Missouri S16-14730C	2.7	7.7	6.0	5.5
Uni. Of Missouri S16-5540R	3.3	6.3	5.3	5.0
Uni. Of Missouri S16-7875C	4.0	6.7	6.3	5.7
Uni. Of Missouri S16-7922C	2.7	7.0	6.3	5.3
MSE	211.1	400.6	396.5	
CV	37.3	51.3	52.4	
<i>p</i> -value	0.0248	0.2792	0.3014	

Table 33. Maturity Group V Xtend Target spot ratings (0-9 scale)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Asgrow AG52X9	5.0	6.7	6.7	5.7	7.0	5.7	6.3	6.2
Asgrow AG53X0	5.7	7.3	7.0	5.0	6.3	6.0	5.3	6.1
Asgrow AG53X9	5.7	7.7	7.0	5.3	6.3	6.7	4.7	6.2
Asgrow AG55X0	5.7	7.7	5.7	5.7	5.7	5.7	5.0	5.9
Credenz CZ 5000X	5.3	6.7	6.3	5.3	6.0	6.0	6.0	5.9
Credenz CZ 5251X	6.0	6.7	6.3	6.3	6.0	6.7	5.0	6.1
Credenz CZ 5299X	5.0	6.7	6.0	5.3	6.3	6.3	5.3	5.8
Credenz CZ 5420X	5.0	7.0	6.0	5.3	6.3	6.3	5.3	5.9
Credenz CZ 5700	5.0	7.0	6.7	6.3	6.0	5.3	5.7	6.0
Delta Grow 52X05/STS	5.7	7.0	6.3	5.0	6.7	5.7	5.7	6.0
Delta Grow 54X25	5.7	6.3	6.3	5.7	6.0	5.3	5.3	5.8
Dyna-Gro GS5261X	6.0	6.7	7.0	6.7	7.0	7.0	5.0	6.5
Dyna-Gro S52XS39 (SX 18652XS)	5.0	7.7	6.3	4.7	6.0	6.3	4.7	5.8
Dyna-Gro S56XT99	5.0	7.7	7.0	5.3	5.3	5.0	5.3	5.8
GDM Seeds DM 51X61	5.3	6.7	6.3	5.3	6.3	6.3	4.3	5.8
Great Heart Seed GT-5214X	5.0	9.0	7.7	5.3	8.0	6.0	5.7	6.7
Great Heart Seed GT-5417X	6.0	7.0	6.7	5.3	7.7	8.0	5.3	6.6
Local Seed Co. LS5009XS	5.0	6.7	6.7	5.7	5.7	5.3	5.0	5.7
Local Seed Co. LS5087X	5.7	7.0	6.5	5.7	6.0	6.7	5.7	6.2
Local Seed Co. LS5386X	5.0	7.3	6.7	5.3	7.0	6.7	5.0	6.1
MorSoy MS 5398 RXT	6.0	8.0	7.3	6.3	6.0	7.3	5.0	6.6
NK S51-R3XS	5.3	7.0	6.3	5.3	6.0	5.3	5.3	5.8
NK S53-F7X	5.0	6.7	6.3	5.0	6.0	6.0	5.7	5.8
Pioneer P53A67X	5.3	6.7	6.3	5.3	6.3	6.0	5.0	5.8
Pioneer P55A49X	4.5	7.0	7.0	5.7	6.0	5.0	5.3	5.8
Progeny Ag 5016RXS	4.7	8.0	7.0	5.3	6.0	6.7	6.0	6.2
Progeny Ag 5170RX	5.7	7.0	7.3	5.7	6.3	7.0	5.0	6.3
Progeny Ag 5252RX	5.3	7.0	6.3	5.0	6.7	6.3	5.7	6.0
Progeny Ag 5554RX	5.0	6.7	6.0	5.3	6.0	6.0	5.0	5.7
MSE	413.1	337.2	432.3	497.8	505.2	497.9	538.2	
CV	47.8	42.7	47.8	50.7	51.1	50.7	52.7	
<i>p</i> -value	0.1800	0.0042	0.1351	0.3078	0.3203	0.1035	0.6972	

Table 34. Maturity Group V Enlist Target spot ratings (0-9 scale)

Brand Variety	Brooksville	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona (N)	AVG
Armor 51-E53	6.0	7.0	6.7	7.7	8.0	5.0	6.7
Delta Grow 51E60	5.7	6.0	5.3	7.7	6.3	5.3	6.1
Delta Grow 52E15/STS	6.0	6.7	7.3	7.7	7.7	5.0	6.7
Go Soy 512E21	5.3	6.0	5.7	6.3	7.0	5.3	5.9
Local Seed Co. ZS5098E3	6.0	6.7	7.7	7.7	7.7	5.7	6.9
MorSoy MS 5110E	6.0	7.0	5.7	6.7	7.7	5.3	6.4
Progeny Ag 5211E3	6.0	6.0	6.3	7.0	7.3	5.7	6.4
MSE	23.4	26.1	23.5	28.2	17.8	44.2	
CV	43.9	46.5	44.1	48.2	38.4	60.4	
<i>p</i> -value	0.5517	0.1800	0.0934	0.2550	0.0329	0.9196	

Table 35. Maturity Group V Conventional/LL/RR Target spot ratings (0-9 scale)

Brand Variety	Stoneville-clay	Verona(N)	AVG
Go Soy 50G17	6.0	5.0	5.5
Petrus Seed 5319 GT	7.0	5.0	6.0
Uni. Of Arkansas R13-14635RR	7.3	5.3	6.3
Uni. Of Missouri S16-11651C	6.0	4.7	5.4
Uni. Of Missouri S16-15170C	7.0	5.3	6.2
Uni. Of Missouri S16-15809C	6.7	4.7	5.7
Uni. Of Missouri S16-3739RY	7.0	5.0	6.0
Uni. Of Missouri S16-3747RY	6.7	5.7	6.2
MSE	47.4	22.8	
CV	55.1	38.2	
<i>p</i> -value	0.4747	0.3711	

Table 36. Maturity Group IV early Xtend Green stem severity ratings (%)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville clay	Stoneville loam	Verona (N)	AVG
AgriGold G4255RX	79	1	2	53	70	1	2	73	35
AgriGold G4620RX	52	0	0	27	98	1	9	49	30
Armor 44-D49	25	1	0	22	83	1	10	45	23
Armor 44-D92	87	1	1	24	63	2	7	55	30
Armor 46-D09	2	1	0	27	85	2	7	70	24
Asgrow AG43X0	14	0	0	15	53	0	2	55	18
Asgrow AG45X8	43	0	1	19	43	1	5	13	16
Asgrow AG46X0	3	1	0	7	80	1	1	15	13
Asgrow AG46X6	85	2	1	55	92	9	57	50	44
Credenz CZ 4280X	14	1	0	32	73	1	5	33	20
Credenz CZ 4341X	33	1	0	30	43	1	6	38	19
Credenz CZ 4570X	28	3	0	43	85	3	20	72	32
Credenz CZ 4600X	12	2	1	1	63	1	11	18	14
Delta Grow 46X05/STS	3	2	0	9	63	1	9	12	12
Delta Grow 46X65/STS	13	1	0	10	52	0	5	7	11
Dyna-Gro S45XS37	93	2	2	42	90	2	32	65	41
Dyna-Gro S45XS66	24	1	1	31	90	3	17	57	28
Dyna-Gro S46XS60	8	1	0	3	77	1	1	55	18
GDM Seeds DM 44X31	15	1	0	24	83	4	4	41	21
GDM Seeds DM 45X61	15	1	0	27	98	1	12	57	26
Great Heart Seed GT-4677XS	13	0	0	22	79	1	1	28	18
LG Seeds LGS4464RX	57	1	1	30	52	1	7	35	23
LG Seeds LGS4632RX	4	1	1	19	88	1	7	53	22
Local Seed Co. LS3976X	62	0	4	4	17	1	3	3	12
Local Seed Co. LS4299XS(LSX4301XS)	80	1	1	25	50	1	2	33	24
Local Seed Co. LS4407X (LSX4501X)	43	1	1	30	78	3	13	53	28
Local Seed Co. LS4565X	87	17	1	67	75	6	33	77	45
Local Seed Co. LS4583X	1	0	1	3	57	1	5	18	11
Mission A4448X	5	0	0	3	86	1	8	7	14
Mission A4618X	95	7	1	55	95	4	70	81	51
MorSoy MS 4616RXT/STS	78	1	2	62	85	2	24	68	40
NK S44-C7X	82	6	1	22	81	19	58	67	42
Pioneer P42A96X	86	4	4	43	90	31	15	65	42
Pioneer P44A72BX	77	1	0	33	63	1	8	37	28
Pioneer P46A86X	58	4	1	20	88	6	32	62	34
Progeny Ag 4265RXS	78	1	1	43	68	1	4	40	30
Progeny Ag 4444RXS	8	1	0	19	62	1	4	13	13
Progeny Ag 4505RXS	11	2	0	5	84	1	4	70	22
Progeny Ag 4620RXS	77	5	2	44	73	12	13	40	33
Terral REV4679X	40	2	0	4	42	1	8	33	16
USG 7447XTS	82	0	1	40	63	1	12	28	28
USG 7461XTS	3	1	0	3	78	1	5	38	16
MSE	286.1	661.5	801.4	671.5	876.3	557.1	655.1	762.9	
CV	26.6	40.5	44.6	40.8	46.6	36.4	40.3	43.2	
p-value	<0.0001	<0.0001	0.0018	<0.0001	0.0007	<0.0001	<0.0001	0.0001	

Table 37. Maturity Group IV Late Xtend Green stem severity ratings (%)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville clay	Stoneville loam	Verona (N)	AVG
AgriGold G4820RX	82	8	0	55	95	34	70	73	52
AgriGold G4995RX	4	1	1	27	80	3	38	37	24
AGS GS47X19	68	1	0	17	84	20	28	48	33
AGS GS48X19	25	1	0	5	53	2	65	8	20
AGS GS49X21	14	1	1	24	93	1	20	3	20
Armor 48-D25	26	1	0	9	95	1	12	47	24
Armor 49-D14	72	1	1	30	95	25	48	68	43
Asgrow AG48X9	3	1	0	6	89	1	11	22	16
Credenz CZ 4730X	3	0	0	6	58	1	22	8	12
Credenz CZ 4770X	27	1	1	18	90	10	38	60	31
Credenz CZ 4810X	11	0	0	25	68	1	53	38	25
Credenz CZ 4869X	23	1	0	5	43	1	52	14	17
Credenz CZ 4941X	23	1	1	18	97	1	35	20	24
Credenz CZ 4979X	14	2	0	13	88	1	72	20	26
Delta Grow 47X95	35	1	0	20	83	22	72	53	36
Delta Grow 48X05	28	1	0	29	72	14	43	53	30
Delta Grow 48X45	70	6	0	52	67	27	83	45	44
Delta Grow 49X15	24	4	1	18	93	1	50	5	24
Delta Grow 49X25	4	0	0	40	32	1	18	10	13
Dyna-Gro S47XT20	5	1	0	2	87	1	27	22	18
Dyna-Gro S48XT56	55	5	1	38	91	32	93	68	48
Dyna-Gro S48XT90	62	1	2	18	93	12	42	65	37
Dyna-Gro S49XT21	1	0	0	11	89	2	50	12	21
Dyna-Gro S49XT70	30	1	1	15	92	4	48	14	26
GDM Seeds DM 47X39	33	2	0	28	95	8	53	22	30
GDM Seeds DM 49X13	53	2	0	38	98	22	43	78	42
Great Heart Seed GT-4828X	17	0	1	7	81	3	28	13	19
Great Heart Seed GT-4833XS	8	0	1	3	96	1	37	23	21
Great Heart Seed GT-4979X	3	1	1	33	97	1	45	47	28
LG Seeds LGS4899RX	17	1	1	9	98	1	18	28	22
Local Seed Co. LS4795XS (LSX4601XS)	3	0	0	7	62	1	22	7	13
Local Seed Co. LS4999X (LSX4901X)	25	1	1	3	45	3	53	9	17
Local Seed Co. LSX4612XS	4	1	0	10	67	1	8	17	13
Local Seed Co. LSX4812XS	13	0	0	9	68	2	7	42	18
Mission A4828X	5	0	0	12	84	5	53	17	22
Mission A4950X	6	1	0	21	94	5	58	43	29
MorSoy MS 4846 RXT	62	4	1	68	92	22	68	67	48
NK S47-Y9X	20	1	0	22	68	1	5	32	19
NK S49-F5X	3	1	0	12	75	1	8	25	16
Pioneer P48A60X	87	2	1	33	68	2	67	37	37
Progeny Ag 4700RXS	13	1	0	11	63	2	27	6	15
Progeny Ag 4816RX	78	12	0	53	93	33	70	78	52
Progeny Ag 4821RX	67	4	1	44	91	10	60	17	37
Progeny Ag 4851RX	48	6	1	46	83	28	48	38	37
Progeny Ag 4970RX	35	1	0	45	99	32	47	62	40
Taylor Seed T4880XS	70	5	1	33	88	32	35	50	39
Taylor Seed T4990XS	17	1	0	16	88	2	15	16	19
Terral REV4927X	5	1	0	19	35	1	36	5	13
Terral REV4940X	17	0	0	8	73	1	22	6	16

Maturity Group IV Late Xtend Green stem ratings

Green stem severity rating (%)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville clay	Stoneville loam	Verona (N)	AVG
USG 7480XT	73	1	0	22	98	28	57	60	42
USG 7489XT	60	7	1	43	88	27	60	75	45
USG 7496XTS	5	1	0	22	53	2	13	41	17
MSE	757.1	719.7	1336.0	1051.7	1333.3	618.8	1154.6	922.4	
CV	35.1	34.2	46.6	41.3	46.5	31.7	43.3	38.7	
<i>p</i> -value	<0.0001	<0.0001	0.0567	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	

Table 38. Maturity Group IV Enlist Green stem ratings (%)

Brand Variety	Brooksville	Olive Branch (N)	Raymond (N)	Stoneville clay	Stoneville loam	Verona (N)	AVG
Armor 48-E81	68	30	96	1	43	52	48
Delta Grow 45E28XP	3	10	91	1	4	20	21
Delta Grow 47E20/STS	7	4	85	1	15	13	21
Delta Grow 47E80/STS	18	15	63	1	12	10	20
Delta Grow 48E10	75	63	97	3	70	70	63
Delta Grow 48E49/STS	65	47	91	1	17	13	39
Delta Grow 49E00/STS	43	17	90	1	38	22	35
GDM Seeds DM 48E73	35	6	94	1	7	45	31
Go Soy 463E20S	5	1	82	1	10	12	19
Go Soy 473E20	8	3	80	1	63	9	27
Go Soy 481E19	75	25	95	5	67	70	56
Go Soy 491E19S	18	50	96	1	57	55	46
Local Seed Co. ZS4694E3S (LSX4602ES)	65	17	83	1	7	27	33
MorSoy MS 4800E	15	16	87	2	68	8	33
Pioneer P49T62E	96	35	94	1	58	52	56
Progeny Ag 4241E3	77	4	94	1	11	8	33
Progeny Ag 4682E3	80	45	95	3	30	25	46
Progeny Ag 4775E3S	10	6	80	1	22	33	25
Progeny Ag 4807E3S	43	10	53	1	8	9	21
Progeny Ag 4902E3	47	15	93	2	42	47	41
Progeny Ag 4908E3S	32	37	93	1	30	50	40
USG 7491ETS	52	20	93	1	68	48	47
MSE	77.5	224.5	276.7	223.9	132.30	114.7	
CV	26.3	44.7	49.7	44.7	34.30	31.9	
P-value	<0.0001	0.0041	0.0412	0.0348	<0.0001	<0.0001	

Table 39. Maturity Group IV Conv Green stem ratings (%)

Brand Variety	Raymond (N)	Stoneville clay	Verona (N)	AVG
Credenz CZ 4820 LL	97	5	12	38
GDM Seeds V 4520 S	98	1	7	35
GDM Seeds V 4720 S	100	1	7	36
GDM Seeds V 4921 S	97	6	45	49
Go Soy 46G19	100	85	58	81
Go Soy 48C17S	30	0	16	15
Go Soy 49G16	85	1	17	34
Go Soy GT Ireane	87	2	33	41
Go Soy Ireane	75	2	18	32
Local Seed Co. LSX3911GL	93	14	5	37
Local Seed Co. LSX4711GL	85	6	10	34
Petrus Seed 4619 GTS	98	80	47	75
Petrus Seed 4916 GT	68	0	18	29
Progeny Ag 4602LR	93	3	13	36
Uni. Of Arkansas R15-2422	88	8	20	39
Uni. Of Arkansas R16-259	100	60	96	85
Uni. Of Missouri S15-10879C	98	45	35	59
Uni. Of Missouri S15-3772RY	82	30	38	50
Uni. Of Missouri S15-3847R	77	1	47	41
Uni. Of Missouri S15-5904RY	93	9	43	49
Uni. Of Missouri S16-11644C	95	4	60	53
Uni. Of Missouri S16-14379C	72	1	12	28
Uni. Of Missouri S16-14730C	90	1	42	44
Uni. Of Missouri S16-5540R	75	0	27	34
Uni. Of Missouri S16-7875C	78	4	2	28
Uni. Of Missouri S16-7922C	70	5	20	32
MSE	303.7	98.7	226.3	
CV	43.8	25.0	36.8	
<i>p</i> -value	0.0009	<0.0001	<0.0001	

Table 40. Maturity Group V Xtend Green stem ratings (%)

Brand Variety	Brooksville	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville clay	Stoneville loam	Verona (N)	AVG
Asgrow AG52X9	6	0	0	4	68	2	10	3	12
Asgrow AG53X0	18	2	1	12	87	1	20	2	18
Asgrow AG53X9	27	1	1	30	91	4	38	35	28
Asgrow AG55X0	3	4	1	9	3	1	7	1	4
Credenz CZ 5000X	50	0	0	8	97	5	18	42	28
Credenz CZ 5251X	5	0	0	6	60	1	15	6	12
Credenz CZ 5299X	15	1	0	7	94	1	68	27	27
Credenz CZ 5420X	6	1	0	6	80	1	35	7	17
Credenz CZ 5700	58	92	33	5	0	53	83	2	41
Delta Grow 52X05/STS	47	1	1	5	95	3	62	13	28
Delta Grow 54X25	15	7	0	37	13	5	10	3	11
Dyna-Gro GS5261X	1	0	0	29	94	1	22	7	19
Dyna-Gro S52XS39 (SX 18652XS)	10	2	0	13	83	1	55	9	22
Dyna-Gro S56XT99	1	7	1	3	3	1	58	23	12
GDM Seeds DM 51X61	35	1	0	17	98	13	57	18	30
Great Heart Seed GT-5214X	2	7	4	8	57	11	47	22	20
Great Heart Seed GT-5417X	2	0	0	5	11	1	15	1	4
Local Seed Co. LS5009XS	53	2	1	33	93	20	83	13	37
Local Seed Co. LS5087X	8	1	0	25	62	6	42	4	18
Local Seed Co. LS5386X	12	2	1	22	92	4	18	24	22
MorSoy MS 5398 RXT	24	2	1	20	98	12	23	34	27
NK S51-R3XS	22	1	1	27	77	4	78	55	33
NK S53-F7X	3	3	0	12	30	4	48	1	13
Pioneer P53A67X	1	2	0	11	4	1	4	1	3
Pioneer P55A49X	14	27	0	45	6	1	53	4	19
Progeny Ag 5016RXS	11	2	0	20	88	3	13	7	18
Progeny Ag 5170RX	4	0	0	6	72	4	13	1	13
Progeny Ag 5252RX	22	3	0	3	94	4	32	1	20
Progeny Ag 5554RX	3	20	0	6	3	1	20	14	8
MSE	178.7	198.1	247.2	414.7	148.2	181.6	216.5	347.7	
CV	29.4	31.5	35.6	46.3	27.7	30.6	33.4	42.4	
p-value	<0.0001	<0.0001	0.0003	0.0228	<0.0001	<0.0001	<0.0001	<0.0001	

Table 41. Maturity Group V RR Enlist Green stem ratings (%)

Brand Variety	Brooksville	Olive Branch (N)	Raymond (N)	Stoneville clay	Stoneville loam	Verona (N)	AVG
Armor 51-E53	13	55	100	1	50	23	40
Delta Grow 51E60	33	15	97	2	25	13	36
Delta Grow 52E15/STS	12	37	99	2	50	11	33
Go Soy 512E21	52	27	94	3	38	12	36
Local Seed Co. ZS5098E3	8	45	100	1	53	23	38
MorSoy MS 5110E	40	20	99	1	20	3	35
Progeny Ag 5211E3	9	52	100	1	17	25	32
MSE	9.1	23.7	14.2	27.5	20.1	17.1	
CV	27.4	44.2	34.3	47.7	40.7	37.6	
<i>p</i> -value	0.0002	0.1008	0.0273	0.5517	0.0170	0.2464	

Table 42. Maturity Group V Conv Green stem ratings (%)

Brand Variety	Raymond	Stoneville clay	Verona (N)	AVG
Go Soy 50G17	31	0	0	10
Petrus Seed 5319 GT	92	87	27	68
Uni. Of Arkansas R13-14635RR	62	33	3	33
Uni. Of Missouri S16-11651C	95	3	8	35
Uni. Of Missouri S16-15170C	95	87	73	85
Uni. Of Missouri S16-15809C	23	0	1	8
Uni. Of Missouri S16-3739RY	68	1	6	25
Uni. Of Missouri S16-3747RY	45	2	5	17
MSE	27.5	6.5	19.7	
CV	41.9	20.3	35.5	
<i>p</i> -value	0.0171	<0.0001	0.0062	