



SOYBEAN VARIETIES' DISEASE RATINGS–2019

Dr. Tom Allen, Extension Plant Pathologist at DREC-Stoneville, has posted ratings for various diseases that affect soybean varieties that were grown in the 2019 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 2019.

Evaluations for the presence of diseases were conducted using a 0 to 9 scale where 0 = no disease and 9 = intense disease symptoms. For frogeye leaf spot (FLS), amount of affected leaf surface area was estimated. For *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 plants infected with southern blight.

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.

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.



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Ratings

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

Tables 1-8. Cercospora leaf blight (CLB) severity ratings (0-9 scale) for soybean varieties, Miss. OVT, 2019.

Tables 9-16. Frogeye leaf spot (FLS) severity ratings (0-9 scale) for soybean varieties, Miss. OVT, 2019.

Tables 17-24. Septoria brown spot (SBS) severity ratings (0-9 scale) for soybean varieties, Miss. OVT, 2019.

Tables 25-32. Target spot (TS) severity ratings (0-9 scale) for soybean varieties, Miss. OVT, 2019.

Tables 33-40. Southern blight (SB) severity ratings (0-9 scale) for soybean varieties, Miss. OVT, 2019.

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Table 1.

Maturity Group IV early Xtend Cercospora leaf blight ratings

Cercospora leaf blight severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	AVG
AgriGold G4440RX	5.7	5.7	6.3	6.0	5.0	6.0	6.0	6.3	6.0	6.0	5.7	5.9
AgriGold G4579RX	6.0	6.3	6.7	6.0	5.0	5.7	7.0	6.7	6.0	6.0	6.0	6.1
AgriGold G4605RX	6.0	6.0	6.7	7.0	5.3	6.0	6.3	6.0	6.3	6.0	6.3	6.2
Armor 42-D27	6.0	6.7	7.0	7.0	5.7	7.0	7.0	7.0	7.0	6.3	6.3	6.6
Armor 44-D92	6.0	6.3	6.7	7.0	5.0	7.0	7.0	7.0	6.3	6.3	6.5	6.5
Armor X45D51	6.0	7.0	6.0	7.0	5.7	6.0	7.0	7.0	6.3	6.0	6.7	6.4
Asgrow AG43X0	6.0	6.7	7.0	7.0	5.7	6.7	7.0	7.0	6.7	6.0	6.3	6.5
Asgrow AG43X8	6.0	6.7	6.3	7.0	5.3	7.0	7.0	7.0	6.3	7.0	6.3	6.5
Asgrow AG45X8	6.0	6.7	6.0	7.0	5.0	6.3	6.7	6.3	6.0	5.7	6.3	6.2
Asgrow AG46X0	6.0	6.0	6.0	5.7	5.0	6.0	6.0	6.0	5.3	5.7	6.0	5.8
Asgrow AG46X6	6.0	6.3	6.0	5.3	5.0	5.7	6.0	6.0	6.0	6.0	6.0	5.8
Delta Grow 46X25	5.7	6.0	6.0	6.0	5.0	6.0	6.0	6.0	6.0	6.0	5.7	5.8
Delta Grow 46X65	6.0	6.3	6.0	6.0	5.3	5.7	6.0	6.0	5.7	5.7	5.7	5.8
Dyna-Gro S45XS37	6.0	6.3	6.0	6.7	5.3	6.7	6.3	6.0	6.0	6.3	6.0	6.2
Dyna-Gro S45XS66	6.0	6.3	6.0	6.3	5.3	7.0	6.7	6.0	6.0	6.0	6.3	6.2
Dyna-Gro S46XS60	6.3	6.3	6.0	5.7	5.3	5.7	6.0	6.0	5.7	6.0	5.7	5.9
Great Heart GT-4255XS	6.0	6.7	6.7	7.0	5.7	7.0	7.0	7.0	6.3	6.3	6.3	6.5
Great Heart GT-4616X	6.0	6.7	6.0	7.0	5.3	6.7	6.7	7.0	6.7	6.0	6.3	6.4
Great Heart GT-4677XS	6.0	6.0	6.0	6.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	5.9
LG Seeds LGS4420RX	6.0	6.0	7.0	6.7	5.3	6.7	7.0	7.0	6.0	5.7	6.3	6.3
Local Seed LS3976X	6.0	6.7	7.0	7.0	6.3	6.7	7.0	7.0	7.0	6.3	7.0	6.7
Local Seed LS4487XS	6.0	6.3	7.0	7.0	5.3	7.0	6.7	7.0	6.3	6.3	6.0	6.5
Local Seed LS4565XS	6.0	6.3	6.0	6.7	5.3	6.7	6.3	6.0	6.3	6.0	6.3	6.2
Local Seed LS4583X	6.0	6.7	6.0	6.0	5.0	6.7	6.0	6.0	6.0	5.7	5.7	6.0
Local Seed LS4677X	6.0	6.3	6.0	6.7	5.3	6.3	6.3	6.3	6.0	6.0	5.7	6.1
Local Seed LSX4301XS	6.0	6.0	6.3	7.0	5.3	7.0	7.0	7.0	6.7	6.7	6.3	6.5
Local Seed LSX4501X	6.0	6.3	6.0	6.0	5.0	7.0	6.7	6.0	6.0	6.0	6.0	6.1
Local Seed LSX4601XS	6.0	6.0	6.0	6.0	5.3	5.7	6.3	6.0	6.0	6.0	5.7	5.9
Mission Seed A4448X	6.3	6.3	7.0	7.0	5.3	7.0	7.0	6.7	6.3	6.0	6.7	6.5
Mission Seed A4618X (MEX4618)	6.0	6.3	7.0	6.3	5.0	7.0	7.0	7.0	7.0	6.3	6.7	6.5
MorSoy MS 4616	6.0	6.3	6.0	6.3	5.0	6.7	6.3	6.0	6.0	6.0	6.0	6.1
NK S39-G2X	6.0	6.7	7.0	7.0	6.0	7.0	7.0	7.0	6.7	6.7	6.7	6.7
NK S44-C7X	6.0	6.3	6.0	7.0	5.0	6.7	6.3	6.0	6.3	6.3	6.0	6.2
Pioneer P42A96X	6.0	6.7	6.7	7.0	5.3	6.7	7.0	7.0	7.0	6.0	6.3	6.5
Pioneer P44A72BX	6.0	6.0	6.0	6.7	4.0	6.0	6.3	6.7	6.0	6.0	5.7	5.9
Pioneer P46A57BX	6.0	6.7	6.3	7.0	5.7	7.0	7.0	6.7	6.7	6.3	7.0	6.6
Progeny Ag P4255RX	6.3	7.0	7.0	7.0	5.7	6.7	7.0	7.0	7.0	7.0	6.3	6.7
Progeny Ag P4265RXS	6.0	6.3	6.7	7.0	5.0	7.0	7.0	7.0	6.3	6.3	5.7	6.4
Progeny Ag P4444RXS	6.0	7.0	7.0	7.0	5.7	7.0	7.0	6.7	6.3	6.0	6.0	6.5
Progeny Ag P4620RXS	6.0	6.7	6.0	6.3	5.0	6.7	6.0	6.3	6.0	6.0	6.0	6.1
Terral REV 4679X	6.0	6.3	6.0	6.7	5.0	6.0	6.0	6.0	6.0	6.3	6.0	6.0
MSE	148.5	778.1	309.8	362.8	701.7	545.8	361.3	255.2	591.9	542.9	598.2	
CV	19.7	44.9	28.4	30.7	42.7	37.7	30.7	25.8	39.2	37.6	39.8	
p-value	0.4666	0.2408	<0.0001	<0.0001	0.1072	<0.0001	<0.0001	<0.0001	0.0002	0.018	0.006	

Table 2.

Maturity Group IV RR Enlist Cercospora leaf blight ratings

Cercospora leaf blight severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona	AVG
Delta Grow 45E23	6.0	5.7	6.3	7.0	6.3	6.7	6.0	6.3	6.3	6.3	6.3
Delta Grow 46E29	6.0	6.0	6.0	6.7	6.7	6.7	6.3	6.3	6.3	5.7	6.3
Delta Grow 46E29	6.0	5.0	6.0	6.7	7.0	6.7	6.7	5.7	5.3	5.7	6.1
Delta Grow 47E19	6.0	5.3	6.0	6.3	7.0	6.3	6.7	6.0	5.7	6.0	6.1
Delta Grow 47E25	6.0	5.0	6.0	6.0	7.0	6.0	5.7	6.0	5.7	5.7	5.9
Delta Grow 48E10	6.3	5.7	6.0	6.7	7.0	6.3	6.7	6.3	6.7	5.3	6.3
Delta Grow 48E28	6.0	5.0	6.0	6.3	7.0	6.3	7.0	6.3	7.0	6.0	6.3
Delta Grow 48E39	6.0	6.3	6.0	6.3	7.0	6.7	6.7	6.3	6.0	6.0	6.3
Delta Grow 48E49	6.0	5.7	6.0	6.7	6.3	6.0	6.3	7.0	6.0	6.3	6.2
Delta Grow 49E29	6.0	5.7	6.0	6.3	6.7	6.7	6.3	6.3	6.3	5.3	6.2
Don Mario 48D3E	6.0	5.0	6.0	6.0	7.0	6.3	6.0	6.0	6.0	6.0	6.0
Go Soy 463E19	6.0	5.3	6.0	7.0	7.0	6.7	7.0	6.7	6.7	6.0	6.4
Go Soy 482E18	6.0	5.3	6.0	6.7	7.0	6.0	6.3	7.0	6.3	6.3	6.3
Local Seed LSX4503GLS	6.0	5.7	6.0	6.7	7.0	6.3	6.7	6.7	6.3	6.0	6.3
Local Seed LSX4602ES	6.0	5.3	6.0	6.7	6.3	6.0	6.3	6.7	7.0	6.0	6.2
Local Seed LSX4701E	6.0	5.0	6.0	6.0	7.0	6.0	7.0	6.0	6.0	6.0	6.1
Petrus Seed 4916 GT	6.0	5.3	6.0	6.0	7.0	6.0	6.0	6.3	6.0	6.0	6.1
Univ. of Missouri S14-15138R	6.0	5.7	6.0	6.0	6.7	6.3	6.3	6.0	6.0	5.7	6.1
Univ. of Missouri S14-15146R	6.0	5.0	6.3	7.0	7.0	6.3	6.7	6.5	6.7	6.0	6.3
USG 7480ET	6.0	5.0	6.0	7.0	6.7	6.7	6.0	6.0	6.3	5.3	6.1
MSE	15.1	210.9	30.9	171.3	74.4	220.4	196.4	167.7	122.1	161.9	
CV	12.5	47.6	18.1	42.9	27.6	47.9	45.9	41.6	37.5	41.1	
P-value	0.4522	0.5826	0.5613	0.0240	0.0208	0.5368	0.1278	0.0387	0.0029	0.1992	

Table 3.

Maturity Group IV late Xtend Cercospora leaf blight ratings

Brand Variety	Cercospora leaf blight severity rating (0-9 scale)											AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	
AgriGold G4815RX	7.0	6.3	7.0	7.0	7.0	5.7	7.0	7.0	7.0	6.0	7.0	6.7
AGS GS47X19	6.7	6.7	6.7	6.7	7.0	5.0	7.0	6.7	6.7	6.0	6.3	6.5
AGS GS49X19	7.0	6.7	6.7	7.0	7.0	4.7	7.0	7.0	6.7	6.0	7.0	6.6
Armor X47D18	7.0	6.7	7.0	7.0	7.0	6.0	7.0	7.0	7.0	6.0	7.0	6.8
Armor X47D85	7.0	6.7	6.7	7.0	7.0	5.7	7.0	7.0	7.0	6.0	7.0	6.7
Armor X48D25	6.3	6.0	6.3	6.3	6.7	5.3	7.0	7.0	6.0	6.0	6.3	6.3
Armor X49D67	7.0	6.0	7.0	6.7	7.0	5.3	7.0	7.0	6.3	6.0	6.3	6.5
Asgrow AG47X9	7.0	6.3	7.0	7.0	7.0	5.3	7.0	7.0	7.0	6.3	6.3	6.7
Asgrow AG48X9	6.3	6.3	6.3	6.0	6.7	5.7	6.7	7.0	6.0	6.0	6.3	6.3
Asgrow AG49X9	7.0	6.0	6.3	6.3	7.0	5.0	7.0	6.7	6.7	6.0	7.0	6.5
Credenz CZ 4869X	6.3	6.3	7.0	7.0	6.3	5.3	6.7	7.0	6.7	6.3	6.3	6.5
Credenz CZ 4979X	7.0	6.3	6.7	7.0	6.7	5.7	7.0	6.7	7.0	5.3	7.0	6.6
Delta Grow 47X95	7.0	6.3	7.0	7.0	7.0	5.0	7.0	7.0	7.0	6.3	7.0	6.7
Delta Grow 48X05	6.7	6.0	6.7	6.7	7.0	5.7	7.0	7.0	6.0	6.0	6.7	6.5
Delta Grow 48X45	7.0	6.0	7.0	6.7	7.0	5.3	7.0	6.7	6.3	6.0	7.0	6.5
Delta Grow 48X95	6.7	6.0	7.0	6.3	7.0	5.0	7.0	6.7	6.3	6.0	6.3	6.4
Delta Grow 49X15	7.0	6.3	7.0	7.0	6.3	5.7	7.0	7.0	6.7	5.7	7.0	6.6
Don Mario 47X01	7.0	6.3	7.0	6.0	6.7	5.3	7.0	7.0	6.3	5.7	6.3	6.4
Don Mario 49J3X	7.0	6.0	6.3	6.3	6.7	5.0	6.7	6.7	6.0	5.7	6.3	6.2
Dyna-Gro S47XT20	7.0	7.0	6.7	7.0	7.0	5.3	7.0	7.0	6.7	6.0	6.7	6.7
Dyna-Gro S48XT56	6.7	6.3	6.3	6.3	7.0	5.3	7.0	7.0	6.3	6.0	6.7	6.5
Dyna-Gro S49XT39	7.0	6.3	6.7	7.0	7.0	5.0	7.0	7.0	7.0	6.0	7.0	6.6
Dyna-Gro S49XT70	7.0	6.7	6.3	7.0	7.0	5.0	7.0	7.0	6.3	5.7	7.0	6.5
Great Heart Seed GT-4764XS	7.0	6.7	7.0	7.0	7.0	6.0	7.0	7.0	7.0	6.3	6.7	6.8
Great Heart Seed GT-4802X	7.0	6.0	7.0	6.0	6.7	5.7	7.0	6.7	6.3	6.0	6.3	6.4
Great Heart Seed GT-4833XS	7.0	6.7	6.3	6.7	6.3	5.0	7.0	6.7	6.3	5.7	7.0	6.4
Great Heart Seed GT-4979X	6.3	6.3	6.0	6.0	6.7	5.7	7.0	6.3	6.0	5.7	6.3	6.2
LG Seeds C4845RX	6.7	6.3	6.0	6.3	6.7	5.7	6.3	7.0	6.3	6.0	6.3	6.3
LG Seeds LGS4899RX	6.7	6.0	6.3	6.3	7.0	5.0	7.0	6.3	6.0	6.0	6.3	6.3
LG Seeds LGS4931RX	7.0	6.3	6.7	6.7	6.3	5.3	7.0	6.3	6.7	6.0	6.7	6.5
Local Seed LS4798X	7.0	6.3	6.0	7.0	6.7	5.0	7.0	7.0	7.0	5.3	6.7	6.5
Local Seed LS4889XS	7.0	6.3	6.3	6.7	6.7	4.7	7.0	7.0	6.0	6.0	6.7	6.4
Local Seed LSX4801XS	6.7	6.0	6.7	6.3	7.0	5.7	7.0	6.3	6.0	6.0	6.3	6.4
Local Seed LSX4901X	7.0	6.3	6.7	7.0	7.0	5.3	7.0	7.0	7.0	6.0	7.0	6.7
Mission Seed A4950X (MEX 4908)	7.0	6.0	6.0	6.3	7.0	5.7	7.0	7.0	6.3	6.0	6.3	6.4
MorSoy MS 4846	7.0	6.3	6.0	6.3	7.0	5.7	7.0	6.7	6.0	5.7	6.3	6.4
NK S47-Y9X	7.0	6.3	7.0	7.0	7.0	5.3	7.0	7.0	6.3	6.0	6.7	6.6
NK S49-F5X	6.3	6.0	6.3	6.7	6.7	5.0	7.0	7.0	6.3	6.0	6.7	6.4
Pioneer P48A60X	7.0	6.7	7.0	7.0	7.0	5.3	7.0	7.0	7.0	6.0	6.3	6.7
Progeny Ag P4799RXS	7.0	6.7	7.0	7.0	7.0	5.7	7.0	7.0	6.7	6.0	7.0	6.7
Progeny Ag P4816RX	6.7	6.0	6.3	6.3	7.0	4.7	6.7	7.0	6.0	6.0	6.7	6.3
Progeny Ag P4821RX	6.3	6.0	6.0	6.7	7.0	4.7	6.7	7.0	7.0	6.0	6.3	6.3
Progeny Ag P4851RX	7.0	6.3	6.3	6.7	7.0	6.0	7.0	7.0	6.7	6.0	7.0	6.6
Progeny Ag P4999RX	6.7	6.0	7.0	6.0	7.0	5.7	7.0	7.0	6.3	6.0	6.7	6.5
Terral REV 4940X	7.0	6.0	6.3	6.0	6.7	5.3	7.0	7.0	6.3	5.7	6.7	6.4
Terral REV4927X	7.0	6.7	7.0	7.0	7.0	5.7	7.0	7.0	6.7	6.0	7.0	6.7
USG 7470XTS	7.0	6.7	7.0	7.0	7.0	5.7	7.0	7.0	7.0	6.0	7.0	6.8
USG 7489XTS	6.7	6.0	6.3	6.0	7.0	5.3	7.0	6.7	6.3	6.0	6.3	6.3
USG 7496XTS	7.0	6.0	6.3	7.0	7.0	5.0	7.0	6.7	6.3	5.3	6.7	6.4
MSE	578.8	1191.8	927.9	773.3	528.9	1263.2	219.7	255.2	600.5	782.5	1110.9	
CV	32.5	46.7	41.2	37.6	31.2	48.0	20.0	25.8	33.1	37.8	45.0	
p-value	0.0324	0.5118	0.0004	<0.0001	0.0209	0.2676	0.0985	<0.0001	0.1853	<0.0001	0.2104	

Table 4.

Maturity Group V Xtend Cercospora leaf blight ratings

Cercospora leaf blight severity rating (0-9 scale)										
Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
AgriGold G5000RX	6.3	7.0	7.0	7.0	7.0	5.0	7.0	6.7	6.7	6.6
Armor 51-D77	5.7	6.0	6.0	5.7	6.0	5.0	7.0	5.3	6.0	5.9
Armor 52-D71	6.3	6.7	7.0	6.7	6.3	5.0	6.3	6.0	6.3	6.3
Asgrow AG52X9	6.0	6.3	7.0	6.3	6.7	5.7	6.7	6.7	6.3	6.4
Asgrow AG53X0	6.3	7.0	7.0	6.3	7.0	6.3	7.0	7.0	6.7	6.7
Asgrow AG53X9	6.0	6.3	7.0	6.3	7.0	5.7	7.0	7.0	6.3	6.5
Asgrow AG55X7	6.0	6.0	6.0	6.0	6.0	6.0	6.7	6.0	6.0	6.1
Credenz CZ 5299X	5.3	6.3	7.0	5.0	6.3	6.0	6.3	5.7	5.7	6.0
Delta Grow 52X05	6.0	6.0	6.0	5.3	6.7	5.3	6.0	5.3	5.3	5.8
Delta Grow 54X25	6.0	6.7	6.3	6.3	6.7	6.0	7.0	6.0	6.0	6.3
Dyna-Gro S52XS39 (SX18652XS)	5.3	6.0	6.3	5.3	6.0	5.7	6.0	5.0	6.0	5.7
Dyna-Gro S52XT08	6.0	6.0	6.0	6.0	6.3	6.3	6.7	6.3	6.0	6.2
Dyna-Gro S54XT17	6.0	6.3	6.3	6.0	6.3	6.0	7.0	6.0	6.3	6.3
Dyna-Gro S56XT99	6.0	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.0
Great Heart Seed GT-5528X	6.0	6.0	6.3	6.0	6.3	6.0	6.7	6.0	6.0	6.1
Local Seed LS5087X	6.3	6.7	7.0	6.7	6.7	6.0	7.0	6.0	6.0	6.5
Local Seed LS5386X	6.0	6.7	7.0	6.3	6.0	5.0	6.3	7.0	6.3	6.3
Local Seed LS5588X	6.0	6.0	6.0	6.0	6.7	5.7	6.0	6.0	6.3	6.1
NK S51-R3XS	6.3	6.7	6.7	5.7	6.7	6.0	6.7	6.3	6.7	6.4
NK S53-F7X	6.0	6.7	6.3	6.0	6.3	6.0	6.3	6.0	6.3	6.2
Pioneer P54A54X	6.0	6.7	7.0	6.0	6.3	6.0	6.0	6.0	6.0	6.2
Pioneer P55A49X	6.0	6.7	6.3	6.0	6.7	6.0	7.0	6.0	6.0	6.3
Progeny Ag P5016RXS	7.0	7.0	7.0	6.7	6.7	5.3	6.7	7.0	6.3	6.6
Progeny Ag P5170RX	7.0	7.0	7.0	6.7	7.0	6.3	7.0	6.7	6.3	6.8
Progeny Ag P5252RX	5.3	6.0	6.3	5.0	6.0	5.0	6.7	5.7	5.3	5.7
Progeny Ag P5554RX	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Progeny Ag P5688RX	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Terral REV 5659X	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.0	6.3	6.1
MSE	267.7	258.2	174.2	197.5	327.9	276.8	255.9	124.5	292.3	
CV	38.5	37.8	31.1	33.1	42.9	39.1	37.6	26.3	40.2	
<i>p</i> -value	0.0086	0.0003	<0.0001	<0.0001	0.0196	0.0009	0.0001	<0.0001	0.08	

Table 5.

Maturity Group V RR Enlist Cercospora leaf blight ratings

Cercospora leaf blight severity rating (0-9 scale)										
Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
Delta Grow 52E22	6.0	6.7	6.0	5.7	7.0	5.7	7.0	7.0	6.3	6.4
Delta Grow 5585 RR2/STS	6.0	6.0	6.3	6.0	6.0	4.0	6.0	6.0	6.0	5.8
Go Soy 50G17	6.0	6.0	6.3	6.0	6.7	6.0	6.0	6.0	6.0	6.1
Go Soy 512E18	6.0	6.3	6.3	5.0	7.0	6.0	7.0	6.7	6.0	6.3
Univ. of Missouri S14-9017R	6.0	7.0	6.7	6.7	7.0	5.7	6.7	6.7	6.0	6.5
Univ. of Missouri S16-3747RY	6.0	6.7	6.3	6.0	7.0	6.3	7.0	6.7	6.0	6.4
MSE	0.0	15.3	24.3	6.9	4.5	15.8	5.0	16.2	4.5	
CV	.	41.2	51.9	27.7	22.3	41.8	23.9	42.4	22.3	
<i>p</i> -value	.	0.0941	0.8081	0.0035	0.0020	0.4998	0.0011	0.102	0.4651	

Table 6.

Maturity Group IV LL *Cercospora* leaf blight ratings

Cercospora leaf blight severity rating (0-9 scale)						
Brand Variety	Brooksville (N)	Longwood	Raymond (N)	Stoneville-clay	Verona (N)	AVG
Credenz CZ 3929GTLL	6.3	6.0	6.3	6.7	6.7	6.4
Credenz CZ 4539GTLL	5.7	5.7	6.7	6.7	6.0	6.1
Credenz CZ 4649LL	5.3	5.0	6.0	5.7	5.0	5.4
Delta Grow 4977 LL/STS	5.7	5.3	6.0	5.3	5.7	5.6
Go Soy 44GL18	6.0	6.3	6.7	7.0	6.7	6.5
Go Soy 46GL18	6.0	5.3	6.3	6.3	6.0	6.0
MSE	15.7	21.3	18.9	8.1	4.9	
CV	41.7	51.3	45.7	30	23.3	
<i>p</i> -value	0.2643	0.6548	0.3993	0.0059	0.0006	

Table 7.

Maturity Group IV Conv Cercospora leaf blight ratings

Cercospora leaf blight severity rating (0-9 scale)			
Brand Variety	Brooksville (N)	Stoneville-clay	AVG
Go Soy 48C17S	6.0	6.0	6.0
Univ. of Missouri S13-10590C	6.3	6.7	6.5
Univ. of Missouri S13-10592C	6.7	7.0	6.8
Univ. of Missouri S13-1955C	6.0	5.3	5.7
Univ. of Missouri S13-2743C	6.7	7.0	6.8
Univ. of Missouri S13-3851C	5.7	6.7	6.2
Univ. of Missouri S16-14379C	5.7	5.3	5.5
Univ. of Missouri S16-14730C	5.7	6.3	6.0
Virtue V4520S	6.0	6.0	6.0
Virtue V4720S	6.3	6.7	6.5
Virtue V4920S	6.7	6.0	6.3
MSE	52.7	31.1	
CV	42.7	32.8	
<i>p</i> -value	0.1071	0.0005	

Table 8.

Maturity Group V Conv Cercospora leaf blight ratings**Cercospora leaf blight severity rating (0-9 scale)**

Brand Variety	Brooksville (N)	Stoneville-clay	AVG
Univ. of Missouri MO5201D Conv (S12-4718C)	6.3	7.0	6.7
Univ. of Missouri S11-20242C	6.3	6.0	6.2
Univ. of Missouri S13-1955C	6.0	7.0	6.5
Univ. of Missouri S15-10434C	6.0	6.0	6.0
MSE	7.0	0.0	
CV	40.7	.	
<i>p</i> -value	0.6542	.	

Table 9.

Maturity Group IV early Xtend Frogeye leaf spot ratings

Frogeye leaf spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	AVG
AgriGold G4440RX	0.0	0.0	0.0	0.3	0.0	0.0	1.3	0.7	0.7	0.7	0.3	0.4
AgriGold G4579RX	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.0	0.3	0.7	0.0	0.2
AgriGold G4605RX	0.0	0.0	0.0	0.3	0.0	0.7	0.7	1.0	2.0	1.7	0.3	0.6
Armor 42-D27	0.0	0.0	0.0	0.0	0.3	0.0	0.7	2.3	2.0	1.3	0.0	0.6
Armor 44-D92	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.7	0.3	1.0	0.0	0.3
Armor X45D51	0.0	0.0	0.0	0.7	0.0	0.0	1.7	2.3	1.3	1.0	0.0	0.6
Asgrow AG43X0	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.0	1.0	0.7	0.0	0.3
Asgrow AG43X8	0.7	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.7	0.3	0.0	0.2
Asgrow AG45X8	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.7	1.3	1.3	0.0	0.4
Asgrow AG46X0	0.0	0.0	0.0	0.3	0.3	0.7	1.0	1.0	1.3	1.3	0.3	0.6
Asgrow AG46X6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	2.3	1.0	0.3	0.5
Delta Grow 46X25	0.0	0.0	0.0	0.7	0.0	0.3	0.7	1.7	1.0	1.0	0.0	0.5
Delta Grow 46X65	0.0	0.0	0.0	1.0	0.0	0.3	1.3	1.0	1.3	1.0	0.0	0.5
Dyna-Gro S45XS37	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.7	0.7	0.3	0.0	0.2
Dyna-Gro S45XS66	0.0	0.0	0.0	0.3	0.3	0.0	0.7	0.0	0.7	0.7	0.0	0.2
Dyna-Gro S46XS60	0.0	0.0	0.0	0.0	0.3	0.3	1.3	0.3	1.0	1.3	0.0	0.4
Great Heart GT-4255XS	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	1.3	0.7	0.0	0.3
Great Heart GT-4616X	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.1
Great Heart GT-4677XS	0.7	0.0	0.0	0.0	0.3	0.0	2.0	0.3	2.0	1.0	0.0	0.6
LG Seeds LGS4420RX	0.0	0.0	0.0	0.7	0.0	0.0	1.3	0.0	0.7	0.0	0.0	0.2
Local Seed LS3976X	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.1
Local Seed LS4487XS	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.7	0.3	0.0	0.2
Local Seed LS4565XS	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.3	1.0	0.7	0.0	0.3
Local Seed LS4583X	0.0	0.0	0.0	0.7	0.0	0.0	1.0	1.3	1.7	2.0	1.0	0.7
Local Seed LS4677X	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1
Local Seed LSX4301XS	0.0	0.0	0.0	0.3	0.0	0.0	1.0	1.7	1.0	0.7	0.0	0.4
Local Seed LSX4501X	1.0	0.0	0.0	0.7	0.0	0.3	1.7	2.0	1.7	2.0	1.0	0.9
Local Seed LSX4601XS	0.0	0.0	0.0	0.3	0.7	0.3	1.7	1.0	2.3	1.0	0.0	0.7
Mission Seed A4448X	0.0	0.0	0.0	0.3	0.0	0.3	1.0	0.0	0.7	0.3	0.0	0.2
Mission Seed A4618X (MEX4618)	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.0	0.0	0.7	0.0	0.2
MorSoy MS 4616	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.3	0.7	0.7	0.0	0.2
NK S39-G2X	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3	1.0	0.3	0.0	0.3
NK S44-C7X	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.1
Pioneer P42A96X	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.3	0.3	0.0	0.0	0.2
Pioneer P44A72BX	0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.7	0.0	0.2
Pioneer P46A57BX	0.0	0.0	0.0	0.7	0.0	0.0	1.0	0.0	0.7	0.3	0.0	0.2
Progeny Ag P4255RX	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	2.0	2.7	0.0	0.5
Progeny Ag P4265RXS	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.7	0.0	0.2
Progeny Ag P4444RXS	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.3	0.7	0.0	0.2
Progeny Ag P4620RXS	0.3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	0.3	0.7	0.2
Terral REV 4679X	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1
MSE	176.0	0.0	0.0	661.1	180.1	281.5	727.2	479.1	694.6	832.6	213.7	
CV	21.4	.	.	41.5	21.6	27.1	43.5	35.3	4.5	46.5	23.6	
p-value	0.0095	.	.	0.6485	0.6180	0.7952	0.0776	<0.0001	<0.0001	0.0166	0.2002	

Table 10.

Maturity Group IV RR Enlist Frogeye leaf spot ratings

Frogeye leaf spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona	AVG
Delta Grow 45E23	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.3	0.3	0.0	0.2
Delta Grow 46E29	0.0	0.0	0.0	0.0	0.3	0.0	0.7	1.7	1.0	0.0	0.4
Delta Grow 46E29	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.0	0.0	0.2
Delta Grow 47E19	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.0	0.1
Delta Grow 47E25	1.7	0.0	0.0	0.0	1.3	0.0	1.7	0.7	1.3	0.0	0.7
Delta Grow 48E10	0.0	0.0	0.0	0.0	0.3	0.3	0.7	0.0	0.7	0.0	0.2
Delta Grow 48E28	0.0	0.0	0.0	0.0	1.7	1.7	1.3	2.7	1.3	0.0	0.9
Delta Grow 48E39	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.0	0.3	0.0	0.2
Delta Grow 48E49	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.3	2.7	0.0	0.6
Delta Grow 49E29	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	1.0	0.0	0.2
Don Mario 48D3E	0.0	0.0	0.0	0.0	2.3	0.0	3.0	4.7	3.7	0.7	1.4
Go Soy 463E19	0.0	0.0	0.0	0.3	0.3	1.0	3.0	1.3	2.3	0.3	0.9
Go Soy 482E18	0.0	0.0	0.0	0.0	0.7	0.0	1.0	0.0	0.3	0.0	0.2
Local Seed LSX4503GLS	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	0.0	0.1
Local Seed LSX4602ES	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.0	2.0	0.0	0.6
Local Seed LSX4701E	0.0	0.0	0.0	0.0	0.3	0.0	1.0	0.0	0.3	0.0	0.2
Petrus Seed 4916 GT	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.1
Univ. of Missouri S14-15138R	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1
Univ. of Missouri S14-15146R	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.0	0.0	0.4
USG 7480ET	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.1
MSE	15.1	0.0	0.0	57.6	114.9	30.5	101.2	51.7	106.6	31	
CV	12.5	.	.	24.9	34.7	17.8	32.9	23.1	33.2	17.9	
P-value	0.4522	.	.	0.6107	0.0252	<0.0001	<0.0001	<0.0001	<0.0001	0.5320	

Table 11.

Maturity Group IV Late Xtend Frogeye leaf spot ratings

Frogeye leaf spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	AVG
AgriGold G4815RX	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.0	2.7	0.0	0.4
AGS GS47X19	0.0	0.0	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.2
AGS GS49X19	0.0	0.3	0.3	0.0	0.0	0.0	0.7	0.0	0.7	1.0	0.0	0.3
Armor X47D18	0.0	0.0	0.3	0.0	0.0	0.0	1.7	0.0	1.7	1.3	0.0	0.5
Armor X47D85	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.0	0.7	1.3	0.0	0.4
Armor X48D25	0.0	0.3	0.0	0.0	0.0	0.0	2.0	0.0	1.7	1.0	0.0	0.5
Armor X49D67	0.0	0.0	1.3	1.0	0.0	0.0	0.7	0.0	1.0	0.3	0.0	0.4
Asgrow AG47X9	0.0	0.0	1.0	0.0	0.0	0.0	0.7	0.0	0.7	0.3	0.0	0.2
Asgrow AG48X9	2.3	0.0	1.7	0.3	2.0	0.0	2.0	0.0	2.0	1.3	0.0	1.1
Asgrow AG49X9	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.2
Credenz CZ 4869X	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.1
Credenz CZ 4979X	0.0	0.0	1.0	0.3	0.0	0.0	0.3	0.0	0.3	0.7	0.0	0.2
Delta Grow 47X95	0.0	0.0	0.3	0.0	0.0	0.0	3.3	0.0	2.0	2.0	0.0	0.7
Delta Grow 48X05	0.0	0.0	1.3	0.0	0.0	0.0	0.7	0.0	0.3	1.0	0.0	0.3
Delta Grow 48X45	0.0	0.0	0.7	0.3	0.0	0.0	0.7	0.0	1.0	0.7	0.0	0.3
Delta Grow 48X95	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.0	2.0	2.7	0.0	0.6
Delta Grow 49X15	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.2
Don Mario 47X01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.1
Don Mario 49J3X	0.0	0.3	1.3	0.0	3.3	0.0	4.7	0.0	4.0	5.3	2.0	1.9
Dyna-Gro S47XT20	0.0	0.0	0.7	0.0	0.3	0.0	0.7	0.0	1.3	1.3	0.0	0.4
Dyna-Gro S48XT56	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	0.0	0.5
Dyna-Gro S49XT39	0.0	0.0	1.3	0.0	2.3	0.0	0.3	0.0	0.3	0.3	0.0	0.4
Dyna-Gro S49XT70	0.0	0.0	0.7	0.3	0.0	0.0	1.0	0.0	0.3	0.7	0.0	0.3
Great Heart Seed GT-4764XS	0.0	0.0	0.3	0.0	0.7	0.0	2.0	0.0	1.7	1.7	0.0	0.6
Great Heart Seed GT-4802X	0.0	0.0	1.3	0.0	0.0	0.0	0.3	0.0	0.3	0.7	0.0	0.2
Great Heart Seed GT-4833XS	0.0	0.0	0.3	0.3	0.3	0.0	0.7	0.0	2.7	3.0	0.0	0.7
Great Heart Seed GT-4979X	0.0	0.0	1.3	0.0	0.0	0.0	1.0	0.0	0.7	1.3	0.0	0.4
LG Seeds C4845RX	0.0	0.0	1.3	0.0	0.0	0.0	0.3	0.0	1.0	1.0	0.0	0.3
LG Seeds LGS4899RX	0.0	0.0	0.7	0.0	0.0	0.0	1.3	0.0	1.3	1.7	0.0	0.5
LG Seeds LGS4931RX	0.0	0.0	1.0	0.0	0.7	0.0	1.3	0.0	1.0	2.3	0.0	0.6
Local Seed LS4798X	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.0	0.7	0.3	0.0	0.2
Local Seed LS4889XS	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.7	4.3	0.0	0.6
Local Seed LSX4801XS	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.0	0.2
Local Seed LSX4901X	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.3	1.0	0.0	0.2
Mission Seed A4950X (MEX 4908)	0.0	0.0	1.0	0.0	0.0	0.0	1.7	0.0	0.3	1.0	0.0	0.4
MorSoy MS 4846	0.0	0.0	0.7	0.0	0.3	0.0	1.3	0.0	1.0	1.3	0.0	0.4
NK S47-Y9X	0.0	0.0	1.0	0.0	0.0	0.0	0.7	0.0	2.0	1.0	0.0	0.4
NK S49-F5X	0.0	0.0	1.0	0.0	0.7	0.0	1.7	0.0	1.3	1.0	0.0	0.5
Pioneer P48A60X	0.0	0.7	0.7	0.0	0.0	0.0	0.3	0.0	2.0	2.3	0.0	0.5
Progeny Ag P4799RXS	0.0	0.0	1.3	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.3
Progeny Ag P4816RX	0.0	0.0	1.3	0.0	0.0	0.0	1.0	0.0	1.7	0.7	0.0	0.4
Progeny Ag P4821RX	0.0	0.3	0.3	0.0	0.0	0.0	1.3	0.0	0.7	0.7	0.0	0.3
Progeny Ag P4851RX	0.0	0.0	0.7	0.0	0.3	0.0	0.7	0.0	0.0	0.3	0.0	0.2
Progeny Ag P4999RX	0.0	0.0	0.0	0.0	1.0	0.0	2.0	0.0	2.7	4.0	0.0	0.9
Terral REV 4940X	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	1.0	0.0	0.2
Terral REV4927X	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.1
USG 7470XTS	0.0	0.0	0.3	0.0	0.0	0.0	0.7	0.0	1.7	1.7	0.0	0.4
USG 7489XTS	0.0	0.0	0.7	0.0	0.3	0.0	0.3	0.0	1.7	1.7	0.0	0.4
USG 7496XTS	0.0	0.0	1.3	0.0	0.7	0.0	0.7	0.0	2.3	2.7	0.0	0.7
MSE	36.8	186.9	1211.8	216.1	415.4	0.0	877.8	0.0	849.1	631.6	36.8	
CV	8.2	18.5	47.0	19.9	27.5	.	40.0	.	39.4	33.9	8.2	
p-value	0.4889	0.6494	0.0137	0.6282	<0.0001	.	<0.0001	.	<0.0001	<0.0001	<0.0001	

Table 12.

Maturity Group V Xtend Frogeye leaf spot ratings

Brand Variety	Frogeye leaf spot severity rating (0-9 scale)									AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	
AgriGold G5000RX	0.0	0.0	1.3	0.0	1.0	0.0	3.7	0.0	0.0	0.7
Armor 51-D77	0.0	0.0	1.3	0.3	0.0	0.0	1.0	0.7	0.0	0.4
Armor 52-D71	0.0	0.0	1.0	0.0	0.0	0.0	1.7	0.7	0.0	0.4
Asgrow AG52X9	0.0	0.0	0.3	0.0	0.0	0.0	2.3	0.7	0.0	0.4
Asgrow AG53X0	0.0	0.0	0.7	0.0	0.0	0.0	2.0	1.3	0.0	0.4
Asgrow AG53X9	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.7	0.0	0.3
Asgrow AG55X7	0.0	0.0	0.7	0.0	0.0	0.0	1.3	0.3	0.0	0.3
Credenz CZ 5299X	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.3	0.0	0.3
Delta Grow 52X05	0.0	0.0	1.3	0.3	0.0	0.0	1.0	0.3	0.0	0.3
Delta Grow 54X25	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.2
Dyna-Gro S52XS39 (SX18652XS)	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.0	0.0	0.3
Dyna-Gro S52XT08	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.3	0.0	0.3
Dyna-Gro S54XT17	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.0	0.0	0.2
Dyna-Gro S56XT99	0.0	0.0	1.3	0.0	0.0	0.0	1.0	0.3	0.0	0.3
Great Heart Seed GT-5528X	0.0	0.0	1.3	0.0	0.0	0.0	1.0	0.3	0.0	0.3
Local Seed LS5087X	0.0	0.0	0.3	0.3	0.0	0.0	2.0	0.3	0.0	0.3
Local Seed LS5386X	0.0	0.0	1.3	0.0	0.0	0.0	2.3	0.3	0.0	0.4
Local Seed LS5588X	0.0	0.0	1.7	0.0	0.0	0.0	1.0	0.0	0.0	0.3
NK S51-R3XS	0.0	0.0	1.0	0.0	1.0	0.0	0.7	0.3	0.0	0.3
NK S53-F7X	0.0	0.0	1.3	0.0	0.0	0.0	3.3	2.3	0.0	0.8
Pioneer P54A54X	0.0	0.0	2.0	0.3	0.0	0.0	0.0	0.3	0.0	0.3
Pioneer P55A49X	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.0	0.0	0.2
Progeny Ag P5016RXS	0.0	0.0	1.0	0.0	0.0	0.0	2.3	0.7	0.0	0.4
Progeny Ag P5170RX	0.0	0.0	0.3	0.0	0.0	0.0	1.0	0.7	0.0	0.2
Progeny Ag P5252RX	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.3	0.0	0.3
Progeny Ag P5554RX	0.0	0.0	2.0	0.0	0.0	0.0	1.0	0.3	0.0	0.4
Progeny Ag P5688RX	0.0	0.0	1.3	0.0	0.0	0.0	1.0	0.0	0.0	0.3
Terral REV 5659X	0.0	0.0	0.3	0.0	0.0	0.0	1.0	0.3	0.0	0.2
MSE	0.0	0.0	321.2	74.7	38.6	0.0	161.8	368.2	0.0	
CV	.	.	42.2	20.3	14.6	.	29.9	45.2	.	
p-value	.	.	0.0152	0.4852	0.2049	.	<0.0001	0.1018	.	

Table 13.

Maturity Group V RR Enlist Frogeye leaf spot ratings**Frogeye leaf spot severity rating (0-9 scale)**

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
Delta Grow 52E22	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.1
Delta Grow 5585 RR2/STS	0.0	0.0	0.7	0.0	0.3	0.0	1.7	0.0	0.0	0.3
Go Soy 50G17	0.0	0.0	0.3	0.0	0.7	0.0	2.7	0.3	0.0	0.4
Go Soy 512E18	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.0	0.0	0.2
Univ. of Missouri S14-9017R	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Univ. of Missouri S16-3747RY	0.0	0.0	0.0	0.0	1.7	0.0	5.7	0.0	0.0	0.8
MSE	0.0	0.0	21.4	0.0	14.2	0.0	3.3	4.5	0.0	
CV	.	.	48.7	.	39.6	.	19.9	22.3	.	
<i>p</i> -value	.	.	0.6516	.	0.2979	.	<0.0001	0.4651	.	

Table 14.

Maturity Group IV LL Frogeye leaf spot ratings

Brand Variety	Frogeye leaf spot severity rating (0-9 scale)					AVG
	Brooksville (N)	Longwood	Raymond (N)	Stoneville-clay	Verona (N)	
Credenz CZ 3929GTLL	0.0	0.0	0.0	0.0	0.0	0.0
Credenz CZ 4539GTLL	0.0	0.0	0.0	0.3	0.0	0.1
Credenz CZ 4649LL	0.0	0.0	0.0	0.0	0.0	0.0
Delta Grow 4977 LL/STS	0.0	0.0	0.0	0.3	0.0	0.1
Go Soy 44GL18	0.0	0.0	0.0	0.0	0.0	0.0
Go Soy 46GL18	0.0	0.0	0.0	0.0	0.0	0.0
MSE	0.0	0.0	0.0	9.9	0	
CV	.	.	.	33.1	.	
<i>p</i> -value	.	.	.	0.6187	.	

Table 15.

Maturity Group IV Conv Frogeye leaf spot ratings

Brand Variety	Frogeye leaf spot severity rating (0-9 sca)		
	Brooksville (N)	Stoneville-clay	AVG
Go Soy 48C17S	0.0	0.0	0.0
Univ. of Missouri S13-10590C	0.0	1.0	0.5
Univ. of Missouri S13-10592C	0.0	0.0	0.0
Univ. of Missouri S13-1955C	0.0	0.7	0.3
Univ. of Missouri S13-2743C	0.0	0.0	0.0
Univ. of Missouri S13-3851C	0.0	2.7	1.3
Univ. of Missouri S16-14379C	0.0	2.0	1.0
Univ. of Missouri S16-14730C	0.0	0.7	0.3
Virtue V4520S	0.3	4.3	2.3
Virtue V4720S	0.0	4.3	2.2
Virtue V4920S	0.0	3.0	1.5
MSE	8.3	14.8	
CV	16.9	22.6	
<i>p</i> -value	0.3855	<0.0001	

Table 16.

Maturity Group V Conv Frogeye leaf spot ratings

Brand Variety	Frogeye leaf spot severity rating (0-9 scale)		
	Brooksville (N)	Stoneville-clay	AVG
Univ. of Missouri MO5201D Conv (S12-4718C)	0.0	1.0	0.5
Univ. of Missouri S11-20242C	0.0	1.0	0.5
Univ. of Missouri S13-1955C	0.0	1.3	0.7
Univ. of Missouri S15-10434C	0.0	0.3	0.2
MSE	0.0	3.1	
CV	.	26.9	
<i>p</i> -value	.	0.0462	

Table 17.

Maturity Group IV early Xtend Septoria brown spot ratings

Brand Variety	Septoria brown spot severity rating (0-9 scale)											AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	
AgriGold G4440RX	0.0	6.3	6.3	6.7	6.0	0.0	6.7	8.0	5.3	7.3	7.7	5.5
AgriGold G4579RX	0.0	5.7	6.3	6.3	5.3	0.0	7.3	7.7	6.3	8.3	7.3	5.5
AgriGold G4605RX	1.7	7.0	6.0	6.0	6.0	0.0	7.7	7.7	6.3	8.3	8.0	5.9
Armor 42-D27	0.0	7.0	6.3	6.7	6.0	0.0	7.0	8.7	8.0	8.3	7.7	6.0
Armor 44-D92	0.0	6.7	6.3	6.0	5.3	0.0	7.0	8.3	6.7	8.0	8.0	5.7
Armor X45D51	0.0	6.3	6.7	6.3	7.3	0.0	7.0	8.7	7.3	8.7	7.7	6.0
Asgrow AG43X0	0.0	6.3	5.7	6.3	5.3	0.0	7.7	7.7	7.0	8.3	7.3	5.6
Asgrow AG43X8	1.7	6.7	6.7	7.0	6.0	0.0	6.3	8.7	8.0	8.3	7.3	6.1
Asgrow AG45X8	1.3	6.7	6.3	6.7	6.3	0.0	7.3	7.7	7.0	8.3	6.3	5.8
Asgrow AG46X0	0.0	6.3	6.3	6.0	5.7	0.0	7.7	7.3	6.3	8.3	6.7	5.5
Asgrow AG46X6	0.0	6.7	6.0	5.7	5.3	0.0	7.0	7.3	6.7	8.0	7.0	5.4
Delta Grow 46X25	0.0	7.3	6.0	6.0	5.7	0.0	7.0	7.3	7.0	8.0	6.7	5.5
Delta Grow 46X65	0.0	6.0	6.3	6.0	6.0	0.0	6.7	8.0	6.3	8.0	7.7	5.5
Dyna-Gro S45XS37	0.0	7.0	6.3	7.0	6.7	0.0	6.7	7.7	7.3	8.3	7.3	5.8
Dyna-Gro S45XS66	0.0	6.3	6.7	5.7	5.7	0.0	7.0	8.0	6.0	8.7	7.3	5.6
Dyna-Gro S46XS60	0.0	6.3	6.0	6.7	4.7	0.0	7.3	7.7	5.7	8.0	7.0	5.4
Great Heart GT-4255XS	0.0	6.7	6.7	6.7	5.0	0.0	7.3	7.7	6.0	8.0	7.3	5.6
Great Heart GT-4616X	0.0	7.7	6.3	6.3	6.3	0.0	7.0	7.7	7.3	8.3	7.3	5.8
Great Heart GT-4677XS	0.0	6.0	5.7	5.7	6.3	0.0	7.0	7.0	6.7	8.0	7.3	5.4
LG Seeds LGS4420RX	0.0	7.3	5.7	7.3	5.3	0.0	7.0	8.7	6.0	8.7	7.7	5.8
Local Seed LS3976X	0.0	7.3	7.0	7.0	7.3	0.0	7.0	9.0	7.3	9.0	7.3	6.2
Local Seed LS4487XS	0.0	6.3	6.7	6.7	6.0	0.0	6.7	8.7	7.0	9.0	7.0	5.8
Local Seed LS4565XS	0.0	5.7	5.7	6.3	5.0	0.0	6.7	7.0	6.3	8.3	7.7	5.3
Local Seed LS4583X	0.0	6.7	5.7	7.0	5.7	0.0	6.7	7.3	6.0	8.0	7.7	5.5
Local Seed LS4677X	0.0	6.0	6.3	6.0	6.0	0.0	6.7	7.7	6.7	9.0	7.7	5.6
Local Seed LSX4301XS	0.0	7.0	6.7	6.3	5.3	0.0	6.7	7.7	7.0	8.3	7.7	5.7
Local Seed LSX4501X	0.0	6.0	6.7	6.3	6.0	0.0	7.0	7.3	5.7	8.3	7.3	5.5
Local Seed LSX4601XS	0.0	6.3	7.0	6.0	6.3	0.0	7.3	7.3	5.7	8.0	6.7	5.5
Mission Seed A4448X	0.0	6.7	6.7	7.0	6.3	0.0	6.7	8.0	7.0	8.3	7.3	5.8
Mission Seed A4618X (MEX4618)	0.0	7.0	6.3	7.0	6.0	0.0	7.0	8.3	6.7	8.3	7.0	5.8
MorSoy MS 4616	0.0	7.0	6.0	6.3	6.0	0.0	7.3	7.3	6.7	8.3	7.0	5.6
NK S39-G2X	0.0	6.7	6.7	6.3	5.7	0.0	7.0	8.0	7.3	8.3	7.3	5.8
NK S44-C7X	0.0	6.0	6.3	7.0	6.0	0.0	6.7	8.0	6.3	8.3	7.3	5.6
Pioneer P42A96X	0.0	6.3	6.3	7.0	6.7	0.0	7.0	8.7	7.7	8.7	7.0	5.9
Pioneer P44A72BX	0.0	6.3	6.3	7.3	4.0	0.0	6.7	8.3	7.3	8.3	7.7	5.7
Pioneer P46A57BX	0.0	7.0	7.7	7.0	5.7	0.0	6.7	8.3	7.0	8.3	7.3	5.9
Progeny Ag P4255RX	0.0	6.3	6.7	6.7	5.7	0.0	7.0	8.3	6.7	8.0	7.0	5.7
Progeny Ag P4265RXS	0.0	6.7	6.3	6.3	5.0	0.0	7.0	8.3	6.0	8.0	7.3	5.5
Progeny Ag P4444RXS	0.0	6.7	6.3	6.7	6.3	0.0	6.7	8.7	7.0	8.3	7.7	5.8
Progeny Ag P4620RXS	0.0	7.0	7.0	6.7	5.0	0.0	6.7	7.3	6.0	8.3	8.0	5.6
Terral REV 4679X	0.0	6.7	7.0	6.3	6.7	0.0	7.0	8.0	6.7	9.0	7.3	5.9
MSE	87.7	1024.9	960.0	852.9	1,035.4	0.0	855.6	713.9	929.9	680.7	1046.2	
CV	15.1	51.6	49.9	47.1	51.9	.	47.2	43.1	49.2	42.1	52.6	
p-value	0.4878	0.3210	0.2163	0.0454	0.1659	.	0.6305	0.0004	0.0519	0.0658	0.7887	

Table 18.

Maturity Group IV RR Enlist Septoria brown spot ratings

Septoria brown spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona	AVG
Delta Grow 45E23	0.0	6.0	6.3	6.7	.	0.0	6.3	7.3	6.7	6.0	5.0
Delta Grow 46E29	0.0	6.7	5.7	6.3	7.0	0.0	7.0	7.0	6.0	7.0	5.3
Delta Grow 46E29	0.0	6.0	6.0	6.7	6.7	0.0	6.0	6.7	5.7	7.3	5.1
Delta Grow 47E19	0.0	6.7	6.7	6.3	7.0	0.0	6.3	7.3	6.7	6.7	5.4
Delta Grow 47E25	0.0	6.7	6.0	6.0	7.3	0.0	6.0	7.3	6.3	7.7	5.3
Delta Grow 48E10	0.0	6.3	5.7	6.3	7.3	0.0	6.7	8.0	6.7	6.3	5.3
Delta Grow 48E28	0.0	6.7	6.0	7.3	7.7	0.0	6.3	7.7	6.3	7.0	5.5
Delta Grow 48E39	0.0	6.7	6.0	6.0	7.0	0.0	6.7	7.3	6.0	7.3	5.3
Delta Grow 48E49	0.0	6.0	6.0	6.3	6.5	0.0	6.7	8.3	6.7	7.7	5.4
Delta Grow 49E29	0.0	7.0	5.7	6.3	6.7	0.0	6.7	7.3	6.0	6.3	5.2
Don Mario 48D3E	0.0	6.7	5.7	6.7	7.3	0.0	6.3	6.3	5.7	7.0	5.2
Go Soy 463E19	0.0	7.3	6.3	6.7	7.3	0.0	6.3	8.0	6.0	7.0	5.5
Go Soy 482E18	0.0	6.7	6.0	6.7	7.0	0.0	6.7	8.3	6.3	6.3	5.4
Local Seed LSX4503GLS	0.0	6.7	6.0	6.3	6.7	0.0	6.3	8.0	6.7	7.0	5.4
Local Seed LSX4602ES	0.0	6.3	6.0	6.7	6.3	0.0	6.7	7.7	6.3	7.0	5.3
Local Seed LSX4701E	0.0	6.3	6.3	6.7	7.3	0.0	6.7	7.3	6.0	6.0	5.3
Petrus Seed 4916 GT	0.0	6.0	6.0	7.0	7.0	0.0	7.0	7.3	6.0	6.7	5.3
Univ. of Missouri S14-15138R	0.0	7.0	6.0	6.3	7.7	0.0	7.0	7.0	7.0	6.3	5.4
Univ. of Missouri S14-15146R	0.0	6.3	6.3	6.0	7.0	0.0	6.7	8.5	6.3	6.8	5.4
USG 7480ET	0.0	7.0	6.0	6.3	6.7	0.0	7.0	7.0	5.7	7.0	5.3
MSE	0	168.0	235.7	246.2	224.1	0.0	286.6	171	211.1	197.2	
CV	.	42.5	50.3	51.4	52.5	.	55.5	42.5	49.3	45.3	
P-value	.	0.0766	0.8979	0.5816	0.6089	.	0.8984	0.0030	0.4505	0.0419	

Table 19.

Maturity Group IV Late Xtend Septoria brown spot ratings

Septoria brown spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	AVG
AgriGold G4815RX	7.7	6.7	8.0	7.0	7.0	0.0	6.7	7.7	7.0	7.7	7.7	6.6
AGS GS47X19	6.0	5.7	7.7	6.0	7.0	0.0	7.0	7.3	6.0	7.3	7.7	6.2
AGS GS49X19	7.0	7.0	7.0	6.3	6.3	0.0	6.7	7.0	7.0	8.3	7.3	6.4
Armor X47D18	7.7	6.3	8.3	6.7	6.3	0.0	6.7	8.0	6.7	7.7	7.3	6.5
Armor X47D85	7.7	7.0	7.7	6.7	6.7	0.0	6.7	7.3	6.7	8.0	7.7	6.5
Armor X48D25	7.3	5.7	8.0	7.0	7.0	0.0	6.7	7.0	6.3	8.0	7.7	6.4
Armor X49D67	8.0	7.0	8.0	6.7	7.0	0.0	6.3	7.7	6.7	8.0	7.7	6.6
Asgrow AG47X9	7.3	6.0	7.7	6.7	7.3	0.0	6.7	7.7	6.0	8.7	7.3	6.5
Asgrow AG48X9	7.0	6.7	8.0	6.3	6.3	0.0	6.7	7.3	7.0	7.7	7.3	6.4
Asgrow AG49X9	6.0	6.3	8.3	6.7	6.7	0.0	6.7	7.0	6.3	7.7	7.3	6.3
Credenz CZ 4869X	7.0	6.3	8.0	7.0	6.0	0.0	7.0	7.0	6.3	8.3	6.7	6.3
Credenz CZ 4979X	7.3	6.0	8.3	7.0	6.7	0.0	6.7	7.0	7.0	7.7	7.7	6.5
Delta Grow 47X95	7.3	7.0	8.0	6.7	7.7	0.0	6.3	7.3	7.0	8.0	7.7	6.6
Delta Grow 48X05	7.3	6.3	8.0	7.3	6.3	0.0	6.7	7.7	6.0	8.0	8.0	6.5
Delta Grow 48X45	6.7	6.0	6.7	6.7	7.3	0.0	7.0	7.0	6.3	8.0	7.3	6.3
Delta Grow 48X95	6.7	6.3	7.3	7.0	7.0	0.0	6.7	7.7	6.3	7.7	7.3	6.4
Delta Grow 49X15	7.7	6.7	7.3	6.7	6.7	0.0	6.7	8.0	6.7	7.3	7.3	6.5
Don Mario 47X01	7.3	6.0	6.7	6.7	7.7	0.0	6.3	6.7	6.0	7.3	7.3	6.2
Don Mario 49J3X	8.0	6.7	8.0	6.0	6.3	0.0	6.7	8.0	6.3	6.7	7.3	6.4
Dyna-Gro S47XT20	7.7	7.3	7.7	7.0	7.3	0.0	6.3	7.7	7.3	7.7	7.7	6.7
Dyna-Gro S48XT56	7.3	6.7	7.7	6.3	8.0	0.0	6.0	7.7	6.7	7.7	7.3	6.5
Dyna-Gro S49XT39	7.0	6.7	8.0	7.0	6.7	0.0	6.7	7.7	6.7	7.7	8.0	6.5
Dyna-Gro S49XT70	7.0	6.7	8.3	6.3	7.0	0.0	7.0	8.3	6.7	8.0	8.0	6.7
Great Heart Seed GT-4764XS	7.7	7.0	8.0	7.0	6.7	0.0	6.7	7.0	7.0	8.0	7.7	6.6
Great Heart Seed GT-4802X	7.0	6.3	7.7	6.7	6.3	0.0	6.7	7.3	6.3	7.7	7.7	6.3
Great Heart Seed GT-4833XS	8.0	6.7	8.0	6.7	6.7	0.0	6.7	8.0	7.0	7.0	8.0	6.6
Great Heart Seed GT-4979X	7.0	7.0	8.0	6.3	7.0	0.0	7.0	7.0	6.3	8.0	7.7	6.5
LG Seeds C4845RX	7.3	6.0	7.0	6.7	6.3	0.0	6.7	7.3	6.3	8.0	7.7	6.3
LG Seeds LGS4899RX	7.7	7.3	6.7	7.3	7.0	0.0	7.0	8.0	6.3	8.0	7.7	6.6
LG Seeds LGS4931RX	7.7	7.3	7.0	7.0	7.0	0.0	6.7	7.3	6.3	7.0	7.7	6.5
Local Seed LS4798X	7.3	6.3	7.7	7.0	6.3	0.0	6.7	7.3	6.0	6.7	7.3	6.2
Local Seed LS4889XS	7.3	6.0	7.0	7.0	7.3	0.0	6.7	8.0	7.7	7.7	7.3	6.5
Local Seed LSX4801XS	7.3	6.3	7.7	6.7	6.7	0.0	6.7	6.7	6.3	7.7	7.7	6.3
Local Seed LSX4901X	7.7	6.3	8.0	7.3	7.7	0.0	7.0	8.3	6.3	8.3	8.0	6.8
Mission Seed A4950X (MEX 4908)	7.0	6.3	8.3	7.0	7.0	0.0	7.0	7.3	6.0	7.0	7.3	6.4
MorSoy MS 4846	6.7	6.7	8.0	7.0	6.7	0.0	6.7	7.3	6.3	7.3	6.7	6.3
NK S47-Y9X	7.3	7.3	7.7	7.3	6.3	0.0	6.7	7.7	7.3	7.7	7.3	6.6
NK S49-F5X	7.0	6.7	7.7	6.7	6.7	0.0	7.3	8.0	6.7	8.0	7.7	6.6
Pioneer P48A60X	7.3	7.0	6.7	6.7	7.0	0.0	6.7	7.3	6.0	8.0	7.0	6.3
Progeny Ag P4799RXS	8.0	6.7	8.0	6.7	6.7	0.0	6.3	7.7	6.7	7.3	7.0	6.5
Progeny Ag P4816RX	7.3	6.3	7.7	6.0	7.0	0.0	6.0	7.3	6.7	7.7	7.7	6.3
Progeny Ag P4821RX	6.7	6.3	7.7	6.3	6.7	0.0	6.7	8.0	6.0	7.3	7.0	6.2
Progeny Ag P4851RX	8.0	7.0	7.7	6.3	7.3	0.0	6.7	7.0	7.3	7.7	7.7	6.6
Progeny Ag P4999RX	7.3	6.7	8.7	6.3	6.7	0.0	6.7	7.3	6.7	7.7	7.7	6.5
Terral REV 4940X	7.3	6.3	7.7	6.3	8.0	0.0	6.7	7.3	6.3	7.3	7.3	6.4
Terral REV4927X	7.7	6.0	8.0	6.7	7.7	0.0	6.3	7.7	7.3	8.0	7.0	6.6
USG 7470XTS	7.7	7.3	8.0	7.7	7.0	0.0	6.7	7.0	7.0	7.7	7.7	6.7
USG 7489XTS	6.3	6.3	6.7	7.3	6.7	0.0	6.7	7.3	6.0	7.7	7.7	6.2
USG 7496XTS	7.0	6.7	7.3	7.0	6.3	0.0	6.7	7.7	6.0	7.7	7.3	6.3
MSE	1,065.2	1133.1	1427.9	1393.6	1,443.9	0.0	1434.6	1134.0	1161.5	994.3	1450.6	
CV	44.1	45.5	51.0	50.4	52.4	.	51.2	45.5	46.1	42.6	51.5	
<i>R</i> -value	0.0009	0.6674	0.4875	0.5487	0.3368	.	0.9921	0.0076	0.0096	0.003	0.7048	

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Table 20.

Maturity Group V Xtend Septoria brown spot ratings

Septoria brown spot severity rating (0-9 scale)										
Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
AgriGold G5000RX	6.7	7.7	7.7	7.0	7.3	0.0	6.7	7.0	6.7	6.3
Armor 51-D77	6.7	7.0	8.0	6.3	6.3	0.0	6.7	7.0	5.7	6.0
Armor 52-D71	6.3	7.0	7.3	7.0	7.0	0.0	6.7	7.0	6.7	6.1
Asgrow AG52X9	6.3	7.0	7.0	6.7	7.0	0.0	7.0	7.3	6.7	6.1
Asgrow AG53X0	6.0	7.3	7.7	6.7	7.0	0.0	6.3	7.0	7.0	6.1
Asgrow AG53X9	6.0	6.3	7.7	6.7	7.0	0.0	6.7	7.3	7.0	6.1
Asgrow AG55X7	5.7	6.0	7.7	5.7	7.3	0.0	7.7	7.3	7.0	6.0
Credenz CZ 5299X	6.0	6.0	8.0	6.3	6.3	0.0	6.3	6.0	6.3	5.7
Delta Grow 52X05	6.7	5.7	6.3	6.7	6.7	0.0	6.7	6.3	6.7	5.7
Delta Grow 54X25	6.7	6.7	7.3	6.7	6.3	0.0	7.3	7.0	7.7	6.2
Dyna-Gro S52XS39 (SX18652XS)	6.3	5.7	6.7	6.7	6.7	0.0	6.3	6.3	6.3	5.7
Dyna-Gro S52XT08	6.0	7.0	7.7	6.3	7.7	0.0	6.3	6.7	7.3	6.1
Dyna-Gro S54XT17	6.7	7.3	8.0	6.3	7.0	0.0	7.0	7.0	7.3	6.3
Dyna-Gro S56XT99	6.3	7.0	7.0	6.3	7.0	0.0	6.3	7.0	7.0	6.0
Great Heart Seed GT-5528X	6.3	6.7	7.7	6.3	7.0	0.0	6.3	7.0	6.3	6.0
Local Seed LS5087X	6.3	6.3	8.0	7.0	7.0	0.0	6.7	6.7	7.0	6.1
Local Seed LS5386X	6.7	6.0	7.7	6.3	6.7	0.0	7.3	7.0	6.7	6.0
Local Seed LS5588X	6.7	6.3	7.0	6.7	7.3	0.0	7.3	7.3	6.7	6.1
NK S51-R3XS	6.7	7.3	7.7	7.0	7.0	0.0	6.0	7.7	7.3	6.3
NK S53-F7X	6.7	7.0	8.0	6.7	6.3	0.0	6.7	7.7	7.3	6.3
Pioneer P54A54X	6.3	6.7	6.7	7.0	7.0	0.0	7.7	7.0	7.7	6.2
Pioneer P55A49X	6.0	7.3	7.7	6.3	6.7	0.0	7.3	7.0	7.3	6.2
Progeny Ag P5016RXS	6.7	7.0	6.3	6.7	7.3	0.0	6.7	7.3	7.3	6.1
Progeny Ag P5170RX	7.0	6.7	7.0	7.0	7.7	0.0	6.3	7.0	7.0	6.2
Progeny Ag P5252RX	6.3	6.7	7.0	6.0	6.3	0.0	6.7	6.0	6.3	5.7
Progeny Ag P5554RX	6.7	6.7	7.3	6.0	7.3	0.0	7.0	7.3	6.7	6.1
Progeny Ag P5688RX	6.3	7.0	6.3	6.0	7.3	0.0	7.0	7.3	6.3	6.0
Terral REV 5659X	6.5	6.7	6.7	7.0	7.0	0.0	7.3	8.0	7.0	6.2
MSE	600.2	525.3	364.1	450.3	486.6	0.0	510.3	450.2	422.4	
CV	57.6	53.9	44.9	49.9	52.5	.	53.2	49.9	48.4	
p-value	0.4070	0.3957	0.0626	0.5249	0.5481	.	0.4172	0.2471	0.1796	

Table 21.

Maturity Group V RR Enlist Septoria brown spot ratings

Septoria brown spot severity rating (0-9 scale)										
Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
Delta Grow 52E22	7.0	6.3	8.0	6.0	7.0	0.0	6.0	7.0	7.3	6.1
Delta Grow 5585 RR2/STS	7.0	6.7	6.7	5.3	7.0	0.0	6.7	6.7	7.3	5.9
Go Soy 50G17	6.3	6.0	7.7	5.7	7.3	0.0	6.3	7.0	7.3	6.0
Go Soy 512E18	6.7	6.7	7.7	6.3	6.7	0.0	6.3	7.0	7.3	6.1
Univ. of Missouri S14-9017R	6.7	6.3	6.7	5.3	7.0	0.0	6.7	7.3	6.0	5.8
Univ. of Missouri S16-3747RY	6.3	6.3	7.3	5.3	8.0	0.0	7.0	7.3	7.0	6.1
MSE	22.7	33.1	10.4	25.9	24.5	0.0	29.9	22.3	19.9	
CV	50.2	60.6	33.9	53.5	52.0	.	59.2	49.7	46.9	
<i>p</i> -value	0.6235	0.9317	0.0195	0.5471	0.3330	.	0.7413	0.8084	0.3253	

Table 22.

Maturity Group IV LL Septoria brown spot ratings

Brand Variety	Septoria brown spot severity rating (0-9 scale)					AVG
	Brooksville (N)	Longwood	Raymond (N)	Stoneville-clay	Verona (N)	
Credenz CZ 3929GTLL	6.3	6.3	0.0	6.0	7.3	5.2
Credenz CZ 4539GTLL	7.0	6.0	0.0	6.3	7.0	5.3
Credenz CZ 4649LL	6.0	6.5	0.0	6.7	7.0	5.2
Delta Grow 4977 LL/STS	6.3	5.7	0.0	6.7	7.7	5.3
Go Soy 44GL18	6.0	6.3	0.0	7.3	7.0	5.3
Go Soy 46GL18	7.0	6.3	0.0	6.7	6.7	5.3
MSE	12.2	16.3	0.0	16.5	12.5	
CV	36.7	44.9	.	42.8	37.2	
<i>p</i> -value	0.0389	0.6468	.	0.1490	0.1738	

Table 23.

Maturity Group IV Conv Septoria brown spot ratings

Septoria brown spot severity rating (0-9 scale)			
Brand Variety	Brooksville (N)	Stoneville-clay	AVG
Go Soy 48C17S	7.7	7.7	7.7
Univ. of Missouri S13-10590C	7.3	7.3	7.3
Univ. of Missouri S13-10592C	6.7	7.0	6.8
Univ. of Missouri S13-1955C	6.0	6.0	6.0
Univ. of Missouri S13-2743C	7.0	8.0	7.5
Univ. of Missouri S13-3851C	7.3	6.7	7.0
Univ. of Missouri S16-14379C	7.3	6.3	6.8
Univ. of Missouri S16-14730C	6.7	7.7	7.2
Virtue V4520S	7.0	7.0	7.0
Virtue V4720S	7.0	6.0	6.5
Virtue V4920S	7.0	6.7	6.8
MSE	67.7	49.7	
CV	48.4	41.5	
<i>p</i> -value	0.5586	0.0135	

Table 24.

Maturity Group V Conv Septoria brown spot ratings**Septoria brown spot severity rating (0-9 scale)**

Brand Variety	Brooksville (N)	Stoneville-clay	AVG
Univ. of Missouri MO5201D Conv (S12-4718C)	6.3	7.0	6.7
Univ. of Missouri S11-20242C	7.7	6.0	6.8
Univ. of Missouri S13-1955C	6.7	6.3	6.5
Univ. of Missouri S15-10434C	6.7	6.3	6.5
MSE	7.9	4.0	
CV	43.1	30.8	
<i>p</i> -value	0.1550	0.0501	

Table 25.

Maturity Group IV early Xtend Target spot ratings

Brand Variety	Target spot severity rating (0-9 scale)											AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	
AgriGold G4440RX	5.0	6.3	8.7	5.7	5.0	5.3	7.3	6.3	6.3	5.7	6.0	6.2
AgriGold G4579RX	5.0	5.7	8.3	6.0	5.7	6.0	6.7	7.0	7.0	7.3	6.0	6.4
AgriGold G4605RX	5.0	6.0	8.0	7.0	5.7	6.7	7.0	7.7	7.0	6.7	6.3	6.6
Armor 42-D27	6.0	6.0	7.7	6.0	5.3	6.3	6.7	7.0	7.7	6.3	6.3	6.5
Armor 44-D92	4.3	5.3	8.0	5.7	5.3	7.3	6.7	8.0	6.7	7.0	7.0	6.5
Armor X45D51	5.3	5.7	8.0	5.0	6.7	7.0	7.0	7.3	6.0	6.3	6.7	6.5
Asgrow AG43X0	6.0	7.3	8.3	6.7	6.0	7.7	6.3	8.0	7.0	7.0	6.0	6.9
Asgrow AG43X8	5.7	6.0	8.0	6.0	5.3	6.3	6.3	6.3	6.7	7.0	5.3	6.3
Asgrow AG45X8	5.3	6.3	8.3	5.7	5.0	5.3	7.0	7.0	7.3	7.0	5.7	6.4
Asgrow AG46X0	6.0	6.0	8.7	7.0	5.3	7.0	7.0	7.3	6.3	7.0	6.7	6.8
Asgrow AG46X6	4.7	5.0	8.0	5.7	5.3	6.3	6.7	7.0	6.3	5.7	6.0	6.1
Delta Grow 46X25	6.3	6.0	8.0	5.7	6.0	6.3	7.0	8.0	6.7	6.7	6.3	6.6
Delta Grow 46X65	6.0	5.7	8.3	5.7	5.3	6.3	7.0	7.3	6.7	5.7	6.3	6.4
Dyna-Gro S45XS37	5.7	6.0	8.7	5.7	5.3	5.7	7.0	6.7	7.3	6.7	6.7	6.5
Dyna-Gro S45XS66	5.7	5.3	7.7	5.3	5.3	7.0	7.0	7.7	6.3	7.3	5.7	6.4
Dyna-Gro S46XS60	5.7	6.0	8.3	6.0	5.0	6.3	7.0	7.7	6.0	5.7	7.7	6.5
Great Heart GT-4255XS	5.0	6.7	7.7	6.0	4.7	6.3	7.3	7.7	6.0	5.7	6.3	6.3
Great Heart GT-4616X	5.3	5.7	7.7	6.0	5.7	5.7	7.0	7.0	7.3	6.7	5.3	6.3
Great Heart GT-4677XS	7.0	5.3	8.7	6.0	6.0	6.7	6.7	8.0	6.3	5.7	6.7	6.6
LG Seeds LGS4420RX	5.7	6.0	8.3	6.0	5.3	6.3	7.3	8.0	7.0	6.7	6.3	6.6
Local Seed LS3976X	5.3	7.0	7.0	6.7	5.7	8.0	6.3	7.7	6.3	6.3	6.3	6.6
Local Seed LS4487XS	6.0	6.0	8.0	6.7	5.7	6.0	7.3	8.0	7.3	7.3	4.7	6.6
Local Seed LS4565XS	5.3	5.7	8.3	5.3	4.7	5.3	6.0	8.0	7.0	6.0	5.3	6.1
Local Seed LS4583X	6.3	6.3	8.0	5.7	5.0	7.3	8.0	7.0	6.7	7.0	7.0	6.8
Local Seed LS4677X	5.3	5.3	7.7	5.7	5.3	6.0	6.7	7.0	6.3	7.0	6.0	6.2
Local Seed LSX4301XS	6.0	6.7	8.3	5.7	5.0	7.7	7.0	7.3	7.3	7.0	6.0	6.7
Local Seed LSX4501X	6.7	6.0	8.3	7.3	6.0	5.7	6.3	6.7	6.0	6.7	6.7	6.6
Local Seed LSX4601XS	6.3	6.0	8.3	6.0	5.3	7.0	6.7	7.7	6.3	5.7	6.3	6.5
Mission Seed A4448X	6.7	6.0	8.7	7.3	6.0	7.3	7.0	8.0	6.7	7.0	6.7	7.0
Mission Seed A4618X (MEX4618)	5.3	6.0	8.7	6.3	6.0	5.7	7.7	7.7	6.7	6.3	6.3	6.6
MorSoy MS 4616	5.0	6.3	8.0	6.0	6.0	6.0	6.0	7.7	6.3	6.0	6.7	6.4
NK S39-G2X	6.0	5.7	8.0	6.0	5.3	7.3	6.0	8.0	6.3	5.0	6.3	6.4
NK S44-C7X	5.3	5.7	7.3	6.7	5.3	6.3	8.0	8.0	7.0	7.0	6.3	6.6
Pioneer P42A96X	4.7	5.7	8.7	6.7	5.3	5.7	6.7	7.3	7.7	8.0	6.3	6.6
Pioneer P44A72BX	5.7	5.0	8.0	5.7	3.7	5.3	6.7	6.7	6.0	5.7	5.3	5.8
Pioneer P46A57BX	5.0	6.0	7.7	6.3	5.0	5.7	7.0	7.0	7.0	5.3	6.3	6.2
Progeny Ag P4255RX	5.3	6.0	8.7	5.7	5.7	6.0	7.0	8.0	7.0	8.0	6.0	6.7
Progeny Ag P4265RXS	4.3	7.0	8.0	5.7	5.0	6.3	6.7	8.0	7.3	6.7	5.3	6.4
Progeny Ag P4444RXS	7.0	5.3	8.3	5.7	6.3	6.7	7.7	8.0	7.7	7.3	6.0	6.9
Progeny Ag P4620RXS	4.7	6.3	7.3	6.7	5.0	6.0	6.7	6.7	5.7	6.3	5.3	6.1
Terral REV 4679X	5.3	5.3	8.0	5.3	6.3	5.7	7.3	7.3	6.3	7.3	6.3	6.4
MSE	1,049.3	951.4	847.3	1019.4	914.1	113.8	879.3	1084.2	972.8	1179.6	1223.5	
CV	52.2	49.7	46.9	51.5	48.8	17.2	47.8	53.1	50.3	55.4	56.9	
p-value	0.1185	0.1091	0.0863	0.3198	0.2215	0.4878	0.0464	0.4018	0.4754	0.7653	0.7489	

Table 26.

Maturity Group IV RR Enlist Target spot ratings

Target spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona	AVG
Delta Grow 45E23	6.0	5.3	6.7	6.3	.	6.0	6.7	6.3	6.3	6.0	6.2
Delta Grow 46E29	6.3	5.7	6.7	6.7	6.3	6.3	7.0	7.0	7.0	5.7	6.5
Delta Grow 46E29	7.3	5.7	6.3	6.0	6.3	7.0	5.7	7.0	5.7	6.0	6.3
Delta Grow 47E19	5.0	6.0	7.0	5.7	6.3	6.0	7.0	6.3	7.3	5.3	6.2
Delta Grow 47E25	6.0	6.3	7.7	6.7	6.3	7.7	7.3	7.0	7.3	6.7	6.9
Delta Grow 48E10	6.0	6.3	7.0	6.3	6.0	5.3	5.7	7.3	7.0	5.3	6.2
Delta Grow 48E28	4.3	5.7	6.7	6.0	6.3	5.7	7.3	6.7	5.7	6.3	6.1
Delta Grow 48E39	5.7	6.7	6.7	5.7	6.3	6.0	6.7	6.7	7.0	5.7	6.3
Delta Grow 48E49	5.7	6.0	8.0	6.7	6.0	7.3	6.3	7.0	7.7	7.0	6.8
Delta Grow 49E29	6.7	6.0	6.7	7.0	5.7	6.3	5.3	7.3	7.3	6.0	6.4
Don Mario 48D3E	5.3	5.3	7.0	6.0	6.3	5.7	6.7	6.3	5.7	6.0	6.0
Go Soy 463E19	5.7	6.0	7.0	6.0	7.7	5.7	6.7	6.7	7.0	6.7	6.5
Go Soy 482E18	5.0	5.7	6.0	7.7	5.7	7.0	7.0	8.0	7.0	5.3	6.4
Local Seed LSX4503GLS	5.7	4.7	7.3	6.7	6.7	6.3	7.0	6.0	6.7	5.7	6.3
Local Seed LSX4602ES	7.0	5.3	8.3	5.3	6.0	7.3	7.0	7.7	7.7	6.7	6.8
Local Seed LSX4701E	6.3	5.3	6.7	7.3	6.7	6.0	7.3	6.7	6.5	5.3	6.4
Petrus Seed 4916 GT	6.3	5.7	6.3	6.7	5.0	5.7	5.3	7.3	7.0	6.7	6.2
Univ. of Missouri S14-15138R	6.0	6.0	8.3	6.7	6.3	6.7	6.0	9.0	7.5	5.7	6.8
Univ. of Missouri S14-15146R	5.5	6.0	7.7	6.0	7.0	6.5	7.0	7.3	7.3	6.3	6.7
USG 7480ET	6.3	6.7	7.0	6.0	6.0	5.3	6.3	6.7	7.0	6.3	6.4
MSE	253.3	265.7	208.0	263.9	236.5	15.1	268.3	229.1	187.5	216.6	
CV	51.3	53.4	47.3	53.3	53.9	12.5	53.7	48.8	46.4	47.5	
P-value	0.1294	0.4964	0.0399	0.3412	0.4824	0.4522	0.3195	0.0674	0.197	0.0733	

Table 27.

Maturity Group IV Late Xtend Target spot ratings

Brand Variety	target spot severity rating (0-9 scale)											AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	
AgriGold G4815RX	6.3	6.7	8.3	5.7	6.0	5.7	6.3	6.3	6.3	6.3	5.7	6.3
AGS GS47X19	6.0	5.3	7.3	6.0	5.7	5.7	7.3	6.7	5.7	6.0	7.0	6.2
AGS GS49X19	6.3	5.7	8.3	7.3	6.0	5.0	6.7	6.7	6.7	7.0	6.0	6.5
Armor X47D18	6.7	6.7	8.3	6.3	6.3	6.7	5.7	7.0	7.7	6.0	7.0	6.8
Armor X47D85	6.0	6.0	7.7	5.3	5.0	5.7	6.7	6.7	6.7	6.3	6.7	6.2
Armor X48D25	6.7	5.7	9.0	6.3	5.0	6.3	6.7	6.7	8.0	6.0	5.7	6.5
Armor X49D67	7.7	6.0	8.0	7.7	5.7	6.0	8.0	7.0	7.7	6.3	5.3	6.8
Asgrow AG47X9	6.3	6.0	8.7	5.7	5.3	5.7	7.3	7.0	7.0	6.7	5.3	6.5
Asgrow AG48X9	7.3	5.3	8.7	6.3	5.0	6.0	6.7	6.7	7.3	6.7	5.7	6.5
Asgrow AG49X9	5.7	5.7	8.0	7.3	6.3	5.3	7.0	6.0	6.0	7.0	4.7	6.3
Credenz CZ 4869X	6.7	5.7	8.3	5.7	5.0	4.7	6.7	7.0	7.0	7.0	5.7	6.3
Credenz CZ 4979X	7.3	7.0	8.3	6.0	5.7	5.7	7.3	6.7	6.0	5.7	6.0	6.5
Delta Grow 47X95	7.0	6.3	8.3	5.7	6.0	5.7	6.7	6.7	7.3	6.7	5.7	6.5
Delta Grow 48X05	7.0	6.7	7.7	6.7	5.7	5.7	6.7	7.0	7.0	6.0	5.3	6.5
Delta Grow 48X45	6.0	5.3	7.7	6.0	5.7	5.3	6.7	7.0	6.3	7.7	6.0	6.3
Delta Grow 48X95	6.7	6.0	8.7	7.3	6.3	6.3	7.3	7.7	6.0	7.3	6.3	6.9
Delta Grow 49X15	6.0	7.0	9.0	6.3	6.0	6.3	6.7	7.0	6.0	7.0	6.7	6.7
Don Mario 47X01	6.7	5.7	9.0	6.7	5.7	5.7	6.3	6.0	5.7	6.3	6.0	6.3
Don Mario 49J3X	6.3	5.7	8.3	6.0	5.7	5.7	6.7	8.0	6.3	6.7	6.7	6.5
Dyna-Gro S47XT20	7.7	6.0	7.7	6.7	6.7	5.0	6.7	7.3	7.0	7.7	5.7	6.7
Dyna-Gro S48XT56	6.3	6.3	7.7	6.3	5.0	4.7	6.7	5.7	6.0	6.7	5.7	6.1
Dyna-Gro S49XT39	7.0	7.0	8.0	6.0	5.7	5.0	6.3	6.3	6.7	6.3	7.7	6.5
Dyna-Gro S49XT70	6.7	6.3	8.7	6.3	6.3	5.0	8.0	7.7	8.0	6.7	6.3	6.9
Great Heart Seed GT-4764XS	7.3	5.3	8.3	6.3	6.0	7.7	6.7	7.7	6.7	6.3	6.7	6.8
Great Heart Seed GT-4802X	7.0	5.3	7.3	5.0	6.0	4.3	6.0	6.3	6.0	8.0	5.3	6.1
Great Heart Seed GT-4833XS	8.0	6.0	8.3	6.7	6.3	6.0	7.0	7.7	7.0	6.7	6.3	6.9
Great Heart Seed GT-4979X	7.3	6.7	8.0	6.0	5.0	5.7	8.0	6.0	7.0	7.0	5.3	6.5
LG Seeds C4845RX	6.3	5.3	7.7	5.7	5.3	5.0	7.0	6.7	6.7	7.0	6.7	6.3
LG Seeds LGS4899RX	7.3	6.3	8.7	6.3	6.3	6.3	7.0	7.0	7.0	7.0	7.3	7.0
LG Seeds LGS4931RX	7.0	7.0	7.7	6.3	6.3	4.3	6.7	6.0	6.7	6.3	6.3	6.4
Local Seed LS4798X	7.3	6.0	8.3	6.7	6.0	6.0	7.3	7.3	6.0	6.0	5.3	6.6
Local Seed LS4889XS	7.7	6.3	9.0	7.0	6.0	5.3	6.7	7.3	6.7	7.3	5.3	6.8
Local Seed LSX4801XS	7.0	5.7	8.0	6.7	6.3	5.0	7.3	6.3	7.3	6.3	6.3	6.6
Local Seed LSX4901X	7.3	7.3	8.3	7.3	6.3	6.0	8.3	8.3	7.3	7.3	6.0	7.3
Mission Seed A4950X (MEX 4908)	6.3	6.3	8.3	6.3	6.3	4.7	7.3	6.7	6.0	6.0	6.3	6.4
MorSoy MS 4846	6.7	6.3	7.7	6.0	6.3	6.3	6.7	6.7	6.7	5.7	6.7	6.5
NK S47-Y9X	6.0	6.3	8.0	6.3	5.0	5.3	6.0	6.3	7.7	7.7	5.3	6.4
NK S49-F5X	6.3	6.0	7.3	6.7	5.7	5.0	6.3	6.7	6.3	7.3	6.3	6.4
Pioneer P48A60X	6.3	6.3	7.7	6.7	7.0	5.3	6.3	7.3	7.0	6.7	6.0	6.6
Progeny Ag P4799RXS	7.0	5.3	7.3	5.7	6.0	6.0	6.7	6.3	6.7	6.0	6.0	6.3
Progeny Ag P4816RX	6.0	5.0	7.3	5.0	5.7	4.7	7.0	5.7	6.3	6.0	6.0	5.9
Progeny Ag P4821RX	6.3	5.3	7.7	6.0	6.7	5.3	6.0	7.3	6.7	7.0	6.3	6.4
Progeny Ag P4851RX	6.0	6.3	8.0	6.7	6.0	5.0	6.7	7.0	7.3	7.3	5.3	6.5
Progeny Ag P4999RX	7.3	6.3	8.7	5.7	5.0	5.3	6.7	7.0	6.7	7.7	6.3	6.6
Terral REV 4940X	7.0	6.0	8.7	6.0	8.0	5.3	7.3	6.7	6.7	6.0	6.0	6.7
Terral REV4927X	6.7	6.0	8.7	6.7	6.7	6.3	6.0	6.0	7.7	7.3	6.3	6.8
USG 7470XTS	6.0	7.3	8.0	6.0	5.7	5.7	6.7	6.7	7.0	7.3	6.0	6.6
USG 7489XTS	5.7	6.0	7.3	5.7	6.0	6.0	6.7	6.0	5.3	6.3	6.3	6.1
USG 7496XTS	6.3	6.3	8.3	6.7	6.7	5.0	7.7	6.3	5.3	5.7	6.3	6.4
MSE	1,220.1	1461.2	1431.2	1393.6	1,447.1	1734.3	1546.6	1321.5	1386.9	1588.6	1527.1	
CV	47.2	51.7	51.1	50.4	52.5	56.3	53.1	49.1	50.3	53.9	52.8	
p-value	0.0025	0.4856	0.1495	0.5487	0.2011	0.5975	0.2224	0.0177	0.0646	0.4435	0.2338	

Table 28.

Maturity Group V Xtend Target spot ratings

Brand Variety	Target spot severity rating (0-9 scale)									
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
AgriGold G5000RX	5.7	5.0	8.0	6.7	6.0	6.7	7.3	7.0	5.3	6.4
Armor 51-D77	6.0	4.7	8.3	5.7	5.3	6.3	7.0	6.7	5.3	6.1
Armor 52-D71	6.3	6.0	9.0	7.3	5.7	5.7	8.0	8.0	5.3	6.8
Asgrow AG52X9	6.0	5.3	8.3	7.0	5.3	6.0	8.0	6.7	6.0	6.5
Asgrow AG53X0	6.3	4.7	8.0	7.0	5.0	7.3	7.7	7.7	6.7	6.7
Asgrow AG53X9	5.7	6.0	9.0	6.7	5.7	8.0	6.7	7.7	5.7	6.8
Asgrow AG55X7	5.0	5.0	8.3	6.0	5.3	6.3	7.7	6.7	4.7	6.1
Credenz CZ 5299X	6.0	4.7	8.3	6.3	5.3	6.0	7.0	6.0	6.0	6.2
Delta Grow 52X05	6.3	4.7	8.3	6.0	5.7	6.0	7.0	6.7	6.3	6.3
Delta Grow 54X25	6.3	5.7	8.3	6.3	5.3	7.0	7.0	6.7	6.7	6.6
Dyna-Gro S52XS39 (SX18652XS)	6.3	5.3	8.0	6.7	5.3	5.0	7.0	6.7	5.3	6.2
Dyna-Gro S52XT08	6.0	6.0	8.3	6.7	5.7	7.3	8.0	7.3	5.3	6.7
Dyna-Gro S54XT17	6.0	5.0	8.7	6.3	6.0	6.7	7.3	7.0	5.3	6.5
Dyna-Gro S56XT99	5.0	6.0	8.0	6.7	5.7	6.7	8.0	7.0	5.7	6.5
Great Heart Seed GT-5528X	6.3	4.7	8.7	6.0	5.7	6.3	7.3	7.3	5.3	6.4
Local Seed LS5087X	5.3	5.3	8.3	7.3	6.7	6.7	7.3	7.0	5.3	6.6
Local Seed LS5386X	6.7	4.7	8.7	7.7	5.3	7.7	7.0	8.3	6.0	6.9
Local Seed LS5588X	6.7	4.7	8.0	7.0	5.7	6.3	7.3	7.3	5.7	6.5
NK S51-R3XS	6.0	5.0	8.0	7.3	6.5	6.0	7.7	7.7	6.3	6.7
NK S53-F7X	6.0	5.0	8.0	6.3	6.0	7.3	6.7	8.0	6.3	6.6
Pioneer P54A54X	5.5	4.0	8.3	6.7	6.0	5.7	7.3	7.3	6.3	6.4
Pioneer P55A49X	6.0	5.0	7.7	6.7	5.7	6.3	7.3	7.0	5.0	6.3
Progeny Ag P5016RXS	6.7	4.7	8.3	6.0	5.3	6.3	6.7	7.0	7.0	6.4
Progeny Ag P5170RX	6.3	6.0	8.7	7.0	5.7	7.7	7.3	8.0	6.7	7.0
Progeny Ag P5252RX	6.0	5.3	8.3	7.0	5.0	5.7	7.0	6.7	5.3	6.3
Progeny Ag P5554RX	5.3	5.3	7.7	6.0	5.7	6.0	6.7	6.7	5.7	6.1
Progeny Ag P5688RX	5.0	5.3	7.3	6.3	5.3	7.0	7.7	6.7	6.7	6.4
Terral REV 5659X	5.5	6.0	7.0	7.0	6.7	6.0	7.7	6.7	5.3	6.4
MSE	514.1	463.3	413.3	514.7	458.9	449.3	437.8	467.3	485.5	
CV	53.4	50.6	47.8	53.4	51.0	49.9	49.2	50.8	51.8	
p-value	0.3367	0.2815	0.1695	0.4347	0.4143	0.0778	0.1764	0.165	0.2863	

Table 29.

Maturity Group V RR Enlist Target spot ratings

Target spot severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Raymond (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
Delta Grow 52E22	6.0	6.3	8.3	6.0	6.0	6.7	8.0	7.7	5.3	6.7
Delta Grow 5585 RR2/STS	6.0	4.7	6.0	5.7	6.7	6.3	6.7	7.0	5.7	6.1
Go Soy 50G17	5.7	4.7	7.7	6.0	6.0	6.7	6.3	6.3	5.7	6.1
Go Soy 512E18	6.7	5.3	8.7	7.0	5.7	7.0	7.7	8.0	5.3	6.8
Univ. of Missouri S14-9017R	5.7	4.7	7.3	6.3	6.7	6.0	6.7	7.3	5.0	6.2
Univ. of Missouri S16-3747RY	6.0	4.7	7.0	6.3	6.0	6.7	6.3	6.7	5.3	6.1
MSE	24.5	19.2	4.7	35.8	30.6	26.4	15.5	19.9	32.3	
CV	52.1	46.1	22.9	62.9	58.3	54.1	41.6	46.9	59.8	
<i>p</i> -value	0.5742	0.2425	0.0002	0.9103	0.7516	0.8491	0.0547	0.2829	0.9871	

Table 30.

Maturity Group IV LL Target spot ratings

Brand Variety	Target spot severity rating (0-9 scale)					AVG
	Brooksville (N)	Longwood	Raymond (N)	Stoneville-clay	Verona (N)	
Credenz CZ 3929GTLL	6.3	5.7	6.3	6.7	6.7	6.3
Credenz CZ 4539GTLL	6.0	5.7	5.3	6.7	6.7	6.1
Credenz CZ 4649LL	5.7	6.5	5.0	7.0	6.3	6.1
Delta Grow 4977 LL/STS	6.0	5.7	5.3	7.0	7.0	6.2
Go Soy 44GL18	6.0	6.0	5.7	7.0	6.3	6.2
Go Soy 46GL18	6.0	5.3	5.7	5.7	6.0	5.7
MSE	36.0	12.4	21.2	30.4	34.3	
CV	63.2	39.1	48.5	58.1	61.6	
<i>p</i> -value	0.9809	0.2888	0.6461	0.6023	0.8867	

Table 31.

Maturity Group IV Conv Target spot ratings

Target spot severity rating (0-9 scale)			
Brand Variety	Brooksville (N)	Stoneville-clay	AVG
Go Soy 48C17S	6.0	6.7	6.3
Univ. of Missouri S13-10590C	5.7	6.3	6.0
Univ. of Missouri S13-10592C	5.7	6.0	5.8
Univ. of Missouri S13-1955C	5.7	5.0	5.3
Univ. of Missouri S13-2743C	5.3	7.0	6.2
Univ. of Missouri S13-3851C	4.7	5.7	5.2
Univ. of Missouri S16-14379C	5.3	5.3	5.3
Univ. of Missouri S16-14730C	5.7	6.0	5.8
Virtue V4520S	5.7	7.0	6.3
Virtue V4720S	5.3	6.0	5.7
Virtue V4920S	5.7	6.0	5.8
MSE	110.1	35.6	
CV	61.7	35.1	
<i>p</i> -value	0.9867	0.0071	

Table 32.

Maturity Group V Conv Target spot ratings

Target spot severity rating (0-9 scale)			
Brand Variety	Brooksville (N)	Stoneville-clay	AVG
Univ. of Missouri MO5201D Conv (S12-4718C)	6.7	6.7	6.7
Univ. of Missouri S11-20242C	7.3	6.7	7.0
Univ. of Missouri S13-1955C	6.7	6.7	6.7
Univ. of Missouri S15-10434C	7.0	6.0	6.5
MSE	3.1	12.0	
CV	27.0	53.3	
p-value	0.1870	0.4547	

Table 33.

Maturity Group IV early Xtend Southern blight ratings

Southern blight severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	AVG
AgriGold G4440RX	2.0	3.3	1.3	1.0	1.0	1.3	1.3	1.7	2.7	1.3	1.7
AgriGold G4579RX	0.3	3.0	1.3	1.0	1.0	1.7	1.0	1.7	2.0	1.7	1.5
AgriGold G4605RX	1.7	4.7	2.0	1.0	1.0	1.3	2.0	1.7	2.0	2.0	1.9
Armor 42-D27	3.7	7.7	6.0	5.7	1.7	5.0	6.3	6.0	7.0	7.7	5.7
Armor 44-D92	3.0	4.3	2.0	1.7	2.3	2.7	3.7	1.3	4.3	3.5	2.9
Armor X45D51	3.3	5.7	1.3	2.0	1.0	2.7	1.7	2.7	3.7	4.0	2.8
Asgrow AG43X0	4.0	5.0	3.3	2.3	1.7	3.0	3.0	2.0	3.7	2.7	3.1
Asgrow AG43X8	2.3	3.7	1.3	1.0	1.0	2.3	2.7	1.0	3.0	2.7	2.1
Asgrow AG45X8	2.0	5.7	1.0	1.0	0.7	2.0	1.3	1.7	3.0	5.7	2.4
Asgrow AG46X0	1.7	2.7	1.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.2
Asgrow AG46X6	1.3	4.3	1.0	0.7	0.7	1.0	1.0	1.0	1.3	1.0	1.3
Delta Grow 46X25	3.3	4.0	0.0	0.7	1.0	1.0	1.0	1.0	1.7	1.3	1.5
Delta Grow 46X65	1.0	5.3	1.0	0.3	0.7	1.0	1.0	1.0	1.7	1.3	1.4
Dyna-Gro S45XS37	1.7	3.7	1.0	1.0	1.7	1.0	1.3	1.0	2.3	1.7	1.6
Dyna-Gro S45XS66	1.0	3.3	1.0	0.7	1.3	1.0	1.3	1.3	2.0	3.3	1.6
Dyna-Gro S46XS60	1.7	4.3	0.0	1.0	0.7	1.0	1.0	1.3	2.0	3.3	1.6
Great Heart GT-4255XS	3.7	5.3	2.7	2.3	2.0	4.3	2.3	2.7	5.3	4.0	3.5
Great Heart GT-4616X	3.0	4.7	1.0	1.0	1.0	2.0	1.3	1.3	2.7	4.7	2.3
Great Heart GT-4677XS	1.3	4.3	0.7	1.0	0.7	1.0	0.7	1.0	2.0	2.3	1.5
LG Seeds LGS4420RX	1.7	4.7	2.3	1.7	1.0	2.3	2.7	1.3	2.0	2.3	2.2
Local Seed LS3976X	2.0	8.7	6.3	8.0	4.7	6.3	7.3	7.7	7.7	7.3	6.6
Local Seed LS4487XS	1.0	3.0	2.7	1.3	1.3	3.7	3.7	1.0	2.0	4.7	2.4
Local Seed LS4565XS	1.7	4.7	0.0	1.0	1.0	1.0	0.7	1.0	2.0	1.7	1.5
Local Seed LS4583X	3.0	4.0	1.0	0.3	1.0	1.0	1.0	1.0	1.3	1.0	1.5
Local Seed LS4677X	2.3	3.7	1.0	1.3	1.3	1.7	0.7	1.0	2.7	1.3	1.7
Local Seed LSX4301XS	3.7	4.0	2.7	1.3	2.3	2.0	3.0	2.0	4.3	4.0	2.9
Local Seed LSX4501X	1.0	6.0	1.3	1.0	1.3	2.7	1.0	1.7	2.7	2.3	2.1
Local Seed LSX4601XS	1.7	4.3	1.0	0.7	1.0	1.0	1.3	1.0	1.7	1.0	1.5
Mission Seed A4448X	2.3	4.7	3.7	2.0	1.3	4.7	2.0	2.0	3.0	3.7	2.9
Mission Seed A4618X (MEX4618)	1.0	2.0	1.0	1.0	1.0	1.7	1.0	1.3	2.7	2.0	1.5
MorSoy MS 4616	1.7	4.0	1.0	0.3	0.7	1.0	1.7	1.0	2.3	1.7	1.5
NK S39-G2X	5.3	7.3	6.0	5.7	1.7	5.7	5.3	4.3	4.0	5.0	5.0
NK S44-C7X	1.0	5.3	1.0	1.3	1.0	3.0	1.0	2.3	3.0	3.7	2.3
Pioneer P42A96X	3.0	4.7	2.0	6.3	2.0	4.3	3.7	5.3	5.0	5.7	4.2
Pioneer P44A72BX	2.7	5.7	1.0	1.0	0.7	1.3	2.3	1.0	2.0	1.3	1.9
Pioneer P46A57BX	4.0	4.0	1.3	2.7	1.0	4.3	2.3	2.0	2.3	2.7	2.7
Progeny Ag P4255RX	2.3	7.0	5.7	6.0	1.7	4.7	6.0	4.7	7.0	5.0	5.0
Progeny Ag P4265RXS	3.7	5.3	2.3	2.0	1.3	2.7	2.3	2.3	3.7	1.7	2.7
Progeny Ag P4444RXS	2.7	5.0	2.3	1.7	1.0	4.0	2.0	1.3	2.3	3.3	2.6
Progeny Ag P4620RXS	2.3	5.0	0.7	0.3	1.0	1.3	1.7	1.0	2.0	1.3	1.7
Terral REV 4679X	2.7	4.3	1.3	1.7	1.0	2.3	1.7	1.7	2.7	2.7	2.2
MSE	517.4	789.0	288.7	329.4	511.8	331.1	358.5	435.3	492.1	596.4	
CV	36.7	45.3	27.4	29.3	36.5	29.3	30.5	33.7	35.8	39.7	
p-value	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	

Table 34.

Maturity Group IV RR Enlist Southern blight ratings

Brand Variety	Southern blight severity rating (0-9 scale)									AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Verona	
Delta Grow 45E23	5.0	6.7	1.3	4.7	8.3	6.0	3.7	6.0	2.3	4.9
Delta Grow 46E29	3.3	4.0	1.7	1.0	8.0	1.7	2.0	1.0	1.0	2.6
Delta Grow 46E29	3.7	2.3	2.3	1.0	7.7	2.0	1.0	1.0	1.7	2.5
Delta Grow 47E19	3.3	5.0	1.0	1.3	4.0	2.0	1.0	1.0	1.3	2.2
Delta Grow 47E25	1.3	3.0	0.0	1.0	4.7	1.0	1.0	1.0	1.0	1.6
Delta Grow 48E10	1.7	6.7	1.7	1.0	1.7	1.0	2.0	1.3	1.0	2.0
Delta Grow 48E28	1.3	2.7	1.3	2.0	6.3	2.7	1.3	2.0	1.0	2.3
Delta Grow 48E39	2.7	6.0	1.3	1.0	6.7	2.7	1.3	1.0	1.0	2.6
Delta Grow 48E49	3.0	5.7	0.7	1.3	8.3	1.3	5.0	2.3	1.7	3.3
Delta Grow 49E29	4.0	4.7	4.3	1.0	8.0	1.3	1.7	1.3	1.3	3.1
Don Mario 48D3E	2.3	4.7	0.3	1.0	6.0	1.7	1.3	1.7	1.0	2.2
Go Soy 463E19	1.7	4.0	0.7	2.7	6.0	3.3	2.7	3.3	1.3	2.9
Go Soy 482E18	5.0	5.7	1.0	1.7	5.3	2.7	6.0	3.7	4.0	3.9
Local Seed LSX4503GLS	3.3	4.0	1.0	2.7	7.7	3.3	4.0	3.0	1.7	3.4
Local Seed LSX4602ES	2.3	2.7	1.0	2.0	8.0	1.0	3.3	2.3	2.0	2.7
Local Seed LSX4701E	3.3	2.0	0.7	1.0	6.3	2.0	1.7	1.0	2.0	2.2
Petrus Seed 4916 GT	1.3	2.7	1.3	2.3	4.3	1.0	2.3	1.0	1.0	1.9
Univ. of Missouri S14-15138R	1.0	3.0	1.0	1.3	6.0	1.0	1.3	0.5	1.0	1.8
Univ. of Missouri S14-15146R	3.3	2.0	1.7	2.0	7.0	3.0	2.8	1.0	1.0	2.6
USG 7480ET	0.7	4.0	2.0	1.0	2.3	1.0	2.0	1.3	1.0	1.7
MSE	187.4	135.5	132.9	88.6	78.5	110	181.4	67.5	139.1	
CV	44.2	38.2	37.8	30.9	30.8	34.4	43.9	27.9	38	
P-value	0.0044	<0.0001	0.0006	<0.0001	<0.0001	<0.0001	0.0043	<0.0001	0.0196	

Table 35.

Maturity Group IV Late Xtend Southern blight ratings
Southern blight severity rating (0-9 scale)

Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Stoneville (N)	Tippo	Verona	AVG
AgriGold G4815RX	2.3	4.3	2.3	3.3	7.7	6.0	5.3	4.3	1.7	5.7	4.3
AGS GS47X19	1.3	5.7	2.3	1.0	7.7	5.0	1.7	2.7	1.7	3.7	3.3
AGS GS49X19	1.7	5.7	2.3	1.3	3.7	4.3	1.3	1.3	1.7	5.3	2.9
Armor X47D18	3.7	5.3	2.7	3.0	7.3	6.7	6.0	2.3	1.0	6.3	4.4
Armor X47D85	3.0	6.3	3.0	2.7	5.0	6.3	2.7	1.7	2.0	5.7	3.8
Armor X48D25	1.0	4.7	1.3	1.7	3.7	2.7	2.0	1.3	3.0	4.0	2.5
Armor X49D67	2.0	5.7	2.0	1.3	5.0	4.7	1.3	1.7	1.7	5.7	3.1
Asgrow AG47X9	2.0	4.0	2.3	1.3	7.7	5.7	4.0	2.0	2.0	7.3	3.8
Asgrow AG48X9	1.0	6.0	1.3	1.0	3.3	2.3	1.0	1.0	2.3	3.3	2.3
Asgrow AG49X9	2.7	6.0	1.0	1.0	5.7	3.3	2.0	1.3	2.3	5.7	3.1
Credenz CZ 4869X	5.3	4.7	3.7	4.3	8.0	8.0	2.7	3.3	2.3	7.7	5.0
Credenz CZ 4979X	2.3	6.7	2.0	1.3	3.0	4.3	1.3	1.7	1.0	4.7	2.8
Delta Grow 47X95	2.7	6.3	2.3	2.3	5.7	5.7	3.0	4.0	3.0	6.3	4.1
Delta Grow 48X05	3.0	5.3	2.3	1.0	8.0	4.7	1.3	2.3	1.3	5.3	3.5
Delta Grow 48X45	0.7	1.3	1.0	1.0	3.0	2.3	1.0	1.0	2.0	2.7	1.6
Delta Grow 48X95	0.7	2.3	1.7	1.7	5.3	4.3	2.3	1.0	1.7	4.0	2.5
Delta Grow 49X15	1.7	4.7	2.3	1.3	4.0	3.3	1.7	2.7	1.7	4.7	2.8
Don Mario 47X01	2.7	5.0	2.7	1.0	8.3	6.3	2.0	3.7	2.0	5.0	3.9
Don Mario 49J3X	2.3	1.7	1.0	1.0	3.7	1.3	1.7	1.0	1.7	1.7	1.7
Dyna-Gro S47XT20	3.3	7.0	2.3	2.7	3.0	7.3	2.0	3.0	1.0	4.7	3.6
Dyna-Gro S48XT56	0.7	2.0	1.0	1.0	5.0	3.3	1.0	1.0	2.0	4.0	2.1
Dyna-Gro S49XT39	2.3	5.7	2.3	1.3	4.3	4.7	3.3	1.3	1.7	5.7	3.3
Dyna-Gro S49XT70	2.3	3.7	2.3	1.3	5.7	4.7	1.3	1.7	1.7	6.0	3.1
Great Heart Seed GT-4764XS	4.3	7.0	2.0	2.7	7.7	7.7	3.7	3.3	3.0	8.0	4.9
Great Heart Seed GT-4802X	2.0	6.7	2.3	1.0	7.3	6.0	2.3	2.0	1.7	4.3	3.6
Great Heart Seed GT-4833XS	4.3	1.7	1.3	1.0	1.7	2.7	4.7	1.0	1.3	6.3	2.6
Great Heart Seed GT-4979X	1.0	4.0	1.0	1.0	3.7	3.0	1.7	1.0	2.3	3.3	2.2
LG Seeds C4845RX	1.0	2.0	3.0	1.7	3.0	2.0	1.3	1.3	1.7	3.0	2.0
LG Seeds LGS4899RX	0.7	4.0	1.0	3.0	5.3	4.0	1.7	2.3	2.0	2.3	2.6
LG Seeds LGS4931RX	2.0	2.3	1.0	1.0	1.0	1.7	1.0	1.0	1.0	2.7	1.5
Local Seed LS4798X	1.3	4.0	1.3	1.0	1.0	2.7	1.0	1.3	1.7	3.3	1.9
Local Seed LS4889XS	3.3	2.3	1.0	1.0	2.0	3.0	6.0	1.0	1.7	5.3	2.7
Local Seed LSX4801XS	3.0	4.3	3.0	1.0	7.3	6.7	3.0	2.0	1.3	5.0	3.7
Local Seed LSX4901X	2.3	4.0	2.0	1.3	5.0	3.3	2.0	1.3	1.0	5.0	2.7
Mission Seed A4950X (MEX 4908)	0.7	4.3	1.0	1.3	6.3	4.0	1.3	1.0	1.3	2.3	2.4
MorSoy MS 4846	1.0	1.3	1.0	1.0	3.0	2.7	1.3	1.3	1.0	3.7	1.7
NK S47-Y9X	2.7	4.7	1.0	2.0	5.0	5.3	4.7	1.3	2.0	7.0	3.6
NK S49-F5X	2.7	4.3	1.3	2.0	4.3	4.0	3.0	1.3	3.0	6.0	3.2
Pioneer P48A60X	3.3	7.3	4.0	4.0	7.3	6.3	3.3	3.3	4.3	7.7	5.1
Progeny Ag P4799RXS	1.3	3.7	2.7	1.3	6.7	4.3	1.3	0.7	1.7	5.0	2.9
Progeny Ag P4816RX	1.0	2.0	1.0	1.3	3.3	3.0	1.0	1.3	1.7	3.3	1.9
Progeny Ag P4821RX	1.3	5.7	1.0	1.3	2.3	3.7	1.3	1.3	2.0	5.3	2.5
Progeny Ag P4851RX	2.3	4.7	3.0	1.3	3.3	5.7	4.3	1.3	2.7	6.3	3.5
Progeny Ag P4999RX	1.3	3.7	2.0	1.0	3.0	4.3	2.0	1.3	2.3	5.0	2.6
Terral REV 4940X	4.0	6.3	1.3	1.0	8.0	3.3	2.3	1.7	2.0	6.0	3.6
Terral REV4927X	2.0	4.3	2.7	3.3	6.0	5.0	6.7	2.3	3.7	5.0	4.1
USG 7470XTS	3.7	6.3	2.7	4.0	7.0	6.0	2.7	4.7	2.0	4.7	4.4
USG 7489XTS	0.7	3.0	1.0	1.0	2.7	2.7	1.0	1.0	1.3	2.7	1.7
USG 7496XTS	2.7	2.0	1.0	1.3	1.0	2.3	1.7	1.0	1.0	2.7	1.7
MSE	996.3	663.5	971.3	541.0	509.2	434.2	797.3	894.2	1162.2	742.3	
CV	42.7	34.8	42.1	31.4	31.0	28.2	38.2	40.4	46.1	36.8	
p-value	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.001	<0.0001	

Table 36.

Maturity Group IV Conv Southern blight ratings

Brand Variety	Southern blight severity rating (0-9 scale)		AVG
	Brooksville (N)	Stoneville-clay	
Go Soy 48C17S	4.0	1.0	2.5
Univ. of Missouri S13-10590C	4.7	1.7	3.2
Univ. of Missouri S13-10592C	5.0	1.3	3.2
Univ. of Missouri S13-1955C	3.3	1.0	2.2
Univ. of Missouri S13-2743C	7.7	1.3	4.5
Univ. of Missouri S13-3851C	5.0	3.0	4.0
Univ. of Missouri S16-14379C	2.0	1.7	1.8
Univ. of Missouri S16-14730C	4.0	1.0	2.5
Virtue V4520S	6.3	1.7	4.0
Virtue V4720S	6.3	1.0	3.7
Virtue V4920S	6.3	1.0	3.7
MSE	69.4	43.4	
CV	49	38.8	
<i>p</i> -value	0.0715	0.0399	

Table 37.

Maturity Group IV LL Southern blight ratings

Southern blight severity rating (0-9 scale)					
Brand Variety	Brooksville (N)	Longwood	Stoneville-clay	Verona (N)	AVG
Credenz CZ 3929GTLL	6.0	2.0	5.7	7.0	5.2
Credenz CZ 4539GTLL	6.0	1.3	5.0	3.0	3.8
Credenz CZ 4649LL	1.7	3.7	1.0	1.0	1.8
Delta Grow 4977 LL/STS	2.3	3.0	2.0	1.0	2.1
Go Soy 44GL18	5.0	1.3	4.0	6.0	4.1
Go Soy 46GL18	6.7	1.3	6.0	5.0	4.8
MSE	7.1	26.1	6.4	1.4	
CV	28.1	56.7	26.6	12.3	
<i>p</i> -value	0.001	0.8381	0.0007	<0.0001	

Table 38.

Maturity Group V Xtend Southern blight ratings

Brand Variety	Southern blight severity rating (0-9 scale)								AVG
	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Verona	
AgriGold G5000RX	1.0	3.7	1.7	1.0	2.3	5.0	3.3	2.7	2.6
Armor 51-D77	1.7	2.3	1.3	1.0	2.3	1.7	1.3	1.7	1.7
Armor 52-D71	0.3	3.7	1.3	1.0	1.3	1.3	2.0	2.0	1.6
Asgrow AG52X9	0.3	6.3	2.3	2.0	3.7	4.3	1.0	2.0	2.7
Asgrow AG53X0	1.0	4.3	3.0	1.0	4.0	2.3	1.3	3.3	2.5
Asgrow AG53X9	0.7	5.7	2.0	2.3	5.7	3.3	3.3	2.3	3.2
Asgrow AG55X7	0.3	5.3	1.3	1.7	4.0	2.3	2.3	2.0	2.4
Credenz CZ 5299X	1.3	3.7	1.7	1.0	3.0	4.0	3.3	2.0	2.5
Delta Grow 52X05	0.7	2.7	1.3	1.0	4.7	4.0	1.7	1.7	2.2
Delta Grow 54X25	0.3	4.7	1.7	2.0	3.7	4.7	3.7	1.7	2.8
Dyna-Gro S52XS39 (SX18652XS)	1.0	2.3	1.0	1.0	3.7	3.3	1.7	1.0	1.9
Dyna-Gro S52XT08	2.7	5.7	2.3	2.7	5.0	7.0	7.7	5.7	4.8
Dyna-Gro S54XT17	0.3	5.3	1.3	2.0	3.0	3.7	5.7	2.3	3.0
Dyna-Gro S56XT99	1.0	2.3	1.0	1.0	3.7	1.3	2.3	2.0	1.8
Great Heart Seed GT-5528X	1.7	4.3	0.7	1.0	5.3	3.7	3.3	3.0	2.9
Local Seed LS5087X	1.0	5.0	2.3	1.7	5.0	6.7	2.7	2.3	3.3
Local Seed LS5386X	0.3	3.3	1.7	1.3	1.0	1.3	1.3	2.7	1.6
Local Seed LS5588X	1.0	3.3	1.0	1.0	3.7	1.3	2.7	1.7	2.0
NK S51-R3XS	1.3	6.7	2.3	1.7	8.3	6.3	1.0	3.7	3.9
NK S53-F7X	1.0	6.7	1.0	1.0	2.0	1.7	1.3	2.0	2.1
Pioneer P54A54X	1.3	4.7	3.0	2.0	5.0	4.7	4.0	1.0	3.2
Pioneer P55A49X	0.7	5.0	3.0	1.7	4.0	3.3	5.3	1.3	3.0
Progeny Ag P5016RXS	0.7	7.0	1.0	1.3	1.0	1.3	1.7	3.3	2.2
Progeny Ag P5170RX	1.7	7.3	2.3	1.3	8.0	5.3	6.3	3.0	4.4
Progeny Ag P5252RX	1.0	2.0	1.3	1.0	1.0	2.7	2.7	1.7	1.7
Progeny Ag P5554RX	1.0	3.7	1.0	1.0	1.7	1.3	1.7	1.0	1.5
Progeny Ag P5688RX	1.0	4.0	1.0	1.0	3.0	2.0	2.3	1.3	2.0
Terral REV 5659X	1.0	3.7	1.0	1.0	1.3	1.3	1.7	1.7	1.6
MSE	370.9	175.1	269.7	166.4	224.2	102.9	272.5	361.3	
CV	45.3	31.1	38.6	30.4	35.6	23.9	38.8	44.7	
<i>p</i> -value	0.0819	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0034	
min	0.3	2.0	0.7	1.0	1.0	1.3	1.0	1.0	

Table 39.

Maturity Group V RR Enlist Southern blight ratings

Southern blight severity rating (0-9 scale)									
Brand Variety	Brooksville	Brooksville (N)	Clarksdale	Longwood	Olive Branch (N)	Stoneville-clay	Stoneville-loam	Verona	AVG
Delta Grow 52E22	2.3	6.0	2.0	1.0	7.0	3.0	2.7	3.3	3.4
Delta Grow 5585 RR2/STS	1.0	1.3	1.7	1.0	2.0	0.3	2.7	1.0	1.4
Go Soy 50G17	2.7	4.0	2.3	3.3	6.7	7.0	6.3	2.7	4.4
Go Soy 512E18	3.0	6.3	1.0	1.0	6.3	2.3	3.3	4.3	3.5
Univ. of Missouri S14-9017R	0.3	3.3	1.3	1.3	2.7	5.7	2.0	2.3	2.4
Univ. of Missouri S16-3747RY	2.3	4.3	1.3	1.7	4.7	1.3	3.7	1.0	2.5
MSE	9.3	4.3	20.3	5.4	7.6	1.9	8.5	10.1	
CV	32	21.9	47.5	24.4	28.9	14.4	30.7	33.4	
<i>p</i> -value	0.0048	<0.0001	0.3895	0.0013	0.0020	<0.0001	0.0034	0.0061	

Table 40.

Maturity Group V Conv Southern blight ratings

Brand Variety	Southern blight severity rating (0-9 scale)		
	Brooksville (N)	Stoneville-clay	AVG
Univ. of Missouri MO5201D Conv (S12-4718C)	1.7	1.7	1.7
Univ. of Missouri S11-20242C	2.3	3.0	2.7
Univ. of Missouri S13-1955C	1.3	1.0	1.2
Univ. of Missouri S15-10434C	1.0	1.0	1.0
MSE	4.9	2.0	
CV	34.2	21.6	
<i>p</i> -value	0.0522	0.0031	