

2016
Soybean Sudden Death Syndrome
Commercial Variety Test Results

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In 2016, 582 commercially available varieties, ranging in maturity from Maturity Group (MG) 0 to MG V Late were evaluated for resistance to SDS. Each MG was split into early (E) and late (L) categories (except for MG 0). The table below describes the planting location for each maturity category. ND indicates the location was planted but there was not sufficient disease pressure (minimum DX of 15 for the susceptible check). ✓ indicates data from that location is presented within this report.

MG Category	Kanawha IA	Ames IA	Fruitland IA	Monmouth IL	Shawneetown IL	Valmeyer IL
0	✓	✓				
I Early	✓	✓				
I Late	✓	✓				
II Early		✓		ND		
II Late		✓	ND	ND		
III Early		✓	ND	✓		
III Late				✓	✓	✓
IV Early					✓	✓
IV Late					✓	✓
V Early					✓	✓
V Late					✓	ND

Variables reported for each entry are:

Entry: Check varieties are listed with the following designations:

- sus: Susceptible
- int: Intermediate
- res: Resistant

Foliar DX: SDS disease index is calculated as $(DI \cdot DS) / 9$. DX ranges from 0-100. Plots were rated at R6 (full seed) growth stage. Numbers represent the mean of 3 replications unless otherwise stated.

DI: SDS disease incidence scored as % of plants with symptoms.

DS: SDS disease severity scored on a 1-9 scale with 1+mild chlorosis, 5=severe leaf scorch, and 9=premature death of plant.

Relative DX: Every trial contains at least one susceptible check that is appropriate for that MG category. Relative DX allows comparison of a particular entry against the susceptible check. It is the DX percentage of the susceptible check's DX.

Suggested Categories: Entries are classified according to Relative DX.

- R: Resistant with a Relative DX of 0-20
- MR: Moderately Resistant with a Relative DX of 21-40
- MS: Moderately Susceptible with a Relative DX of 41-60
- S: Susceptible with a Relative DX of 61+

On some occasions, entries with the same Foliar DX are assigned a different Suggested Category. This is due to the rounding of Foliar DX and because Suggested Category is assigned according

to Relative DX. Please see the highlighted section in the example below from the Maturity Group IV Late.

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Maturity Group IV Late – Shawneetown, IL and Valmeyer, IL

Company	Entry	Shawneetown	Valmeyer	Mean	Relative	Suggested
		Foliar DX	Foliar DX	Foliar DX	DX	
Stine Seed Co.	47LF32	6	16	11	20	R
Pfister	45R203	5	17	11	20	R
University of Missouri	S12-3791	23	0	11	21	MR
Dyna-Gro Seed	31RY45	14	9	11	21	MR
Check	DP 4933RR (int)	10	13	11	21	MR
Stine Seed Co.	48RI22	14	9	12	21	MR
LG Seed	C4867R2	14	10	12	22	MR

Frogeye Leaf Spot: FLS is the rating of Frogeye leaf spot severity. It is a linear rating scale 0-9, 0= no symptoms, 1=10% of leaf area covered with lesion... 9=90% of leaf area covered and/or defoliation occurring.

Locations in the 2016 trials were planted across a range of planting dates. In Iowa, Kanawha was planted on April 19, Ames on April 23 and Fruitland on April 25. In Illinois, Shawneetown was planted on May 6, Monmouth on May 12 and 13 and Valmeyer on May 23. While no variety is immune to SDS, there are varieties that perform very well in severe SDS environments. Data presented here is from a single year at one or two locations. Varieties may perform differently in other environments.

The impact of SDS on soybean yield can be devastating. The results from 15 years of genetic trials indicate there is a 7 to 10% loss of potential yield associated with each 10 DX unit increase. Plots were not harvested for yield in this program because yield comparisons can be misleading from disease nurseries utilizing small plots. Accurate yield data for commercial varieties should be obtained from state variety trials.

For information on Southern Illinois University soybean research and for electronic copy of this report, please contact Jason Bond at jbond@siu.edu. For information on Iowa State University soybean research please contact Peter Lundeen at plundeen@iastate.edu. For extension materials and information on crop diseases please contact Angie Peltier at apeltier@illinois.edu.

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We thank the following companies for participating in the 2016 United Soybean Board Sudden Death Syndrome Commercial Variety Test. Companies are listed in alphabetical order.

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Maturity Group 0 – Ames, IA and Kanawha, IA

Company	Entry	Ames Foliar DX	Kanawha Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
University of Minnesota	M10-282037	0	0	0	0	R
Oregon State University	Owyhee 1	0	0	0	1	R
Check	M00-456052 (MN0807) (res)	0	0	0	4	R
University of Minnesota	M11-334043	0	0	0	5	R
Latham Hi-Tech Seeds	Latham L0785R2X	0	0	0	6	R
Stine Seed Co.	04LH60	0	0	0	7	R
Prairie Brand Seeds	PB-0987R2	0	1	0	7	R
Stine Seed Co.	09RI62	0	1	0	7	R
Latham Hi-Tech Seeds	Latham L0838R2	0	0	0	8	R
University of Minnesota	M10-273120	1	0	0	8	R
Prairie Brand Seeds	PB-0777R2	0	0	0	8	R
LG Seed	C0618R2	0	1	0	8	R
Latham Hi-Tech Seeds	Latham L0685R2	0	1	0	9	R
Latham Hi-Tech Seeds	Latham L0958R2X	0	1	1	12	R
North Dakota State University	ND09-5798	1	1	1	13	R
University of Minnesota	M11-334109	0	1	1	16	R
Dairyland Seed	DSR-0619/R2Y	1	0	1	17	R
University of Minnesota	M11-334099	1	1	1	19	R
North Dakota State University	ND10-2763	1	2	1	27	MR
North Dakota State University	ND10-3464	1	3	2	37	MR
Dairyland Seed	DSR-0305/R2Y	2	3	3	51	MR
Dairyland Seed	DSR-0711/R2Y	2	5	3	65	S
Stine Seed Co.	08RI02	0	6	3	66	S
North Dakota State University	ND10-3067	0	7	3	67	S
Prairie Brand Seeds	PB-0863R2	1	7	4	72	S
Dairyland Seed	DSR-0807/R2Y	5	2	4	74	S
Check	MN0095 (sus)	9	1	5	100	S
LG Seed	C0911R2	10	0	5	103	S
Latham Hi-Tech Seeds	Latham L0982R2	10	1	5	109	S
Latham Hi-Tech Seeds	Latham L0643L	19	2	11	213	S
Stine Seed Co.	06LI00	17	9	13	261	S
Latham Hi-Tech Seeds	Latham L0836L	32	7	19	387	S
	Mean	4	2			
	P<F	<.0001	<.0001			
	LSD	9	5			

2016 USB Commercial Variety Test

Maturity Group I Early – Ames, IA and Kanawha, IA

Company	Entry	Ames Foliar DX	Kanawha Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Check	IA1018 (int)	1	1	1		
Check	M10-274166 (res)	1	2	1		
Check	Hodgson (sus)	0	0	0		
Latham Hi-Tech Seeds	Latham L1086L	0	0	0		
Prairie Brand Seeds	PB-0879NRR2	2	7	4		
Dairyland Seed	DSR-1120/R2Y	0	1	1		
Latham Hi-Tech Seeds	Latham L1285R2X	0	1	0		
Latham Hi-Tech Seeds	Latham L1238L	8	19	14		
Prairie Brand Seeds	PB-1257R2	0	1	1		
Dairyland Seed	DSR-1313/R2Y	1	1	1		
Latham Hi-Tech Seeds	Latham L1345R2	0	2	1		
Latham Hi-Tech Seeds	Latham L1328L	1	9	5		
LG Seed Xtend	C1337RX	0	0	0		
Prairie Brand Seeds	PB-1376R2	0	1	1		
Dyna-Gro Seed	S14RY95	3	6	4		
e-Merge/Schillinger Genetic	E1466	1	1	1		
Latham Hi-Tech Seeds	Latham L1438R2	0	1	1		
LG Seed	C1428R2	1	1	1		
Prairie Brand Seeds	PB-1466R2	1	10	5		
Stine Seed Co.	13RI32	0	0	0		
Stine Seed Co.	13LH62	1	5	3		
Stine Seed Co.	14LF62	1	12	7		
	Average	1.1	3.6			
	<i>P</i> > <i>F</i>	0.2	0.0			
	LSD	4.4	8.1			

*Disease expression was not severe enough for relative DX and category suggestions.

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Maturity Group I Late – Ames, IA and Kanawha, IA

Company	Entry	Ames Foliar DX	Kanawha Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
LG Seed	C1530R2	0	0	0	0	R
Latham Hi-Tech Seeds	Latham L1759R2X	0	0	0	0	R
Dyna-Gro Seed	S17XT57	0	0	0	1	R
LG Seed	C1917R2	0	0	0	1	R
Dairyland Seed	DSR-1526/R2Y	0	0	0	2	R
Stine Seed Co.	18RI32	0	0	0	2	R
Check	AR10SDS (res)	0	1	0	2	R
Prairie Brand Seeds	PB-1956R2	1	0	0	0	R
Dyna-Gro Seed	S17RY67	1	0	0	3	R
e-Merge/Schillinger Genetics	E1966	1	0	0	3	R
Prairie Brand Seeds	PB-1787R2	1	0	1	3	R
Prairie Brand Seeds	PB-1566R2	0	1	1	4	R
LG Seed	C1870R2	1	1	1	4	R
Stine Seed Co.	14RD62	1	1	1	5	R
Latham Hi-Tech Seeds	Latham L1968R2	0	1	1	6	R
Growmark, Inc.	18X60	1	1	1	8	R
Prairie Brand Seeds	PB-1947R2	1	1	1	8	R
Latham Hi-Tech Seeds	Latham L1858R2	1	1	1	8	R
Stine Seed Co.	19RF32	0	2	1	9	R
Check	MN 1606SP (int)	3	0	1	10	R
Prairie Brand Seeds	PB-1822R2	2	1	1	10	R
Prairie Brand Seeds	PB-1611R2	4	0	2	12	R
Mycogen	5N182R2	2	2	2	13	R
e-Merge/Schillinger Genetics	E1665	3	2	2	17	R
Latham Hi-Tech Seeds	Latham L1882R2	7	2	5	30	MR
e-Merge/Schillinger Genetics	E1993	4	5	5	31	MR
Latham Hi-Tech Seeds	Latham L1986R2X	0	10	5	36	MR
Latham Hi-Tech Seeds	Latham L1538R2	14	8	11	73	S
Latham Hi-Tech Seeds	Latham L1673R2	19	6	12	82	S
Latham Hi-Tech Seeds	Latham L1787L	24	3	14	91	S
Beck's Hybrids	184L4	26	2	14	93	S
Check	Myc 5171 RR (sus)	19	12	15	102	S
Dairyland Seed	DSR-1721/R2Y	14	19	16	109	S
Stine Seed Co.	19LI32	34	13	24	157	S
Latham Hi-Tech Seeds	Latham L1548L	31	19	25	166	S
LG Seed	C1822LL	43	14	28	189	S
	Mean	7	4			
	P > F	<.0001	0.0005			
	LSD	11	10			

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Maturity Group II Early – Ames, IA

Company	Entry	Ames Foliar DX	Relative DX	Suggested Category
Growmark, Inc.	21X60	0	0	R
Latham Hi-Tech Seeds	Latham L2184R2X	0	1	R
Dyna-Gro Seed	S21XT77	0	1	R
LG Seed	C2441R2	0	1	R
LG Seed	C2020R2	0	1	R
Brodbeck	227R2	0	1	R
LG Seed	C2300	1	1	R
Beck's Hybrids	2353X2	1	1	R
e-Merge/Schillinger Genetics	E2346	1	1	R
LG Seed	C2255R2	1	2	R
Dyna-Gro Seed	S2207N	1	2	R
Beck's Hybrids	233R4™* brand	1	2	R
Prairie Brand Seeds	PB-2197R2	1	2	R
Stine Seed Co.	20RD20	1	2	R
Prairie Brand Seeds	PB-2024R2	1	2	R
Latham Hi-Tech Seeds	Latham L2128R2	1	2	R
Stine Seed Co.	21RI32	1	2	R
Latham Hi-Tech Seeds	Latham L2228R2	1	2	R
Stine Seed Co.	24RH62	1	2	R
Dairyland Seed	DSR-2330/R2Y	1	2	R
Latham Hi-Tech Seeds	Latham L2084R2	1	3	R
Pfister	21R201	1	3	R
Latham Hi-Tech Seeds	Latham L2482R2	1	3	R
Check	K-233+RR (res)	1	3	R
Dairyland Seed	DSR-2110/R2Y	1	4	R
Dyna-Gro Seed	S21RY56	1	4	R
Dyna-Gro Seed	S23RY85	1	4	R
e-Merge/Schillinger Genetics	E2062	2	4	R
Prairie Brand Seeds	PB-2198R2	2	4	R
e-Merge/Schillinger Genetics	E2282	2	4	R
Prairie Brand Seeds	PB-2486R2	2	4	R
Growmark, Inc.	23X60	2	4	R
Dyna-Gro Seed	S22LL65	2	5	R
Beck's Hybrids	204L4	2	5	R
LG Seed	C2259LL	2	6	R
Dyna-Gro Seed	S20RY45	3	7	R
e-Merge/Schillinger Genetics	E2162	3	8	R
Latham Hi-Tech Seeds	Latham L2083L	4	9	R
Dyna-Gro Seed	S23XT97	4	10	R
Latham Hi-Tech Seeds	Latham L2186L	6	15	R
Dairyland Seed	DSR-2017/R2Y	6	16	R
Dyna-Gro Seed	S20LL47	6	17	R
Stine Seed Co.	21LH02	8	20	R

2016 USB SDS Commercial Variety Test
Maturity Group II Early – Ames, IA

Company	Entry	Ames Foliar DX	Relative DX	Suggested Category
Latham Hi-Tech Seeds	Latham L2348R2X	8	20	R
Latham Hi-Tech Seeds	Latham L2258L	13	34	MR
Stine Seed Co.	23RI23	18	46	MS
Latham Hi-Tech Seeds	Latham L2454R2X	18	47	MS
Prairie Brand Seeds	PB-2296R2	21	54	MS
Prairie Brand Seeds	PB-2419RR2	23	58	MS
Latham Hi-Tech Seeds	Latham L2358L	24	61	S
Beck's Hybrids	234L4	24	63	S
LG Seed	C2427LL	26	67	S
Growmark, Inc.	23L50	29	73	S
Stine Seed Co.	23LF32	29	75	S
Check	H-2494 (sus)	39	101	S
	Mean	6		
	<i>P</i> > F	<.0001		
	LSD	8		

2016 USB SDS Commercial Variety Test
Maturity Group II Late – Ames, IA

Company	Entry	Ames Foliar DX	Relative DX	Suggested Category
Beck's Hybrids	2591X2	0	0	R
LG Seed	C2635LL	0	0	R
Dyna-Gro Seed	S27XT86	0	0	R
Mycogen	5N286R2	0	0	R
Dyna-Gro Seed	S29RY46	0	0	R
U of I	Illini 2904N	0	0	R
Stine Seed Co.	27RI02	0	0	R
e-Merge/Schillinger Genetics	E2854	0	0	R
LG Seed	C2890R2	0	0	R
Stine Seed Co.	28RH02	0	1	R
U of I	Illini 2668Na	0	1	R
Dairyland Seed	DSR-2616/R2Y	0	1	R
Dyna-Gro Seed	S25LL96	0	1	R
Beck's Hybrids	273R4 ^{TM*} brand	0	1	R
Dyna-Gro Seed	38RY28	0	1	R
Beck's Hybrids	297R4 ^{TM*} brand	0	1	R
Beck's Hybrids	2791X2	0	2	R
Growmark, Inc.	26L60	0	2	R
U of I	Illini 2880Na	0	2	R
Beck's Hybrids	298L4	0	2	R
Dyna-Gro Seed	S26RS75	0	2	R
LG Seed Xtend	C2766RX	0	2	R
Check	AR11SDS (res)	0	2	R
Latham Hi-Tech Seeds	Latham L2758R2	0	3	R
Kruger Seed	K2X-2852	0	3	R
Latham Hi-Tech Seeds	Latham L2984R2X	0	3	R
LG Seed	C2942	0	3	R
Stine Seed Co.	25LH62	0	3	R
Martin Seed Inc.	M27B	0	3	R
Stine Seed Co.	26LH02	0	3	R
Dairyland Seed	DSR-2707/R2Y	0	3	R
LG Seed	C2744R2	1	3	R
Stine Seed Co.	28LF32	1	3	R
LG Seed	C2898LL	1	4	R
LG Seed	C2520R2	1	4	R
Kruger Seed	K2X-2652	1	4	R
Latham Hi-Tech Seeds	Latham L2884R2	1	4	R
LG Seed	C2835R2	1	4	R
Growmark, Inc.	29X60	1	4	R
Stine Seed Co.	30RE02	1	4	R
Growmark, Inc.	27X60	1	4	R
LG Seed	C2605R2	1	4	R
Dyna-Gro Seed	S29RY05	1	4	R

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Maturity Group II Late – Ames, IA

Company	Entry	Ames Foliar DX	Relative DX	Suggested Category
Dyna-Gro Seed	S26RY37	1	4	R
Prairie Brand Seeds	PB-2917R2	1	4	R
Mycogen	5N265R2	1	5	R
e-Merge/Schillinger Genetics	26T512	1	5	R
Beck's Hybrids	285R4™* _{brand}	1	5	R
Kruger Seed	K2X-2552	1	5	R
Beck's Hybrids	264L4	1	6	R
U of I	Illini 6265N	1	6	R
Latham Hi-Tech Seeds	Latham L2859R2X	1	6	R
Dairyland Seed	DSR-2909/R2Y	1	7	R
Prairie Brand Seeds	PB-2576R2	1	7	R
Dyna-Gro Seed	S28XT06	1	7	R
Latham Hi-Tech Seeds	Latham L2684L	1	8	R
Mycogen	5N287R2	1	9	R
Pfister	26R204	1	9	R
Beck's Hybrids	291	1	9	R
Prairie Brand Seeds	PB-2788R2	2	10	R
Dyna-Gro Seed	S27LL55	2	11	R
Growmark, Inc.	26X60	2	15	R
e-Merge/Schillinger Genetics	29T516	2	15	R
U of I	Illini 2696Na	2	15	R
Martin Seed Inc.	M25C	2	15	R
Prairie Brand Seeds	PB-2876R2	2	16	R
Latham Hi-Tech Seeds	Latham L2748L	3	19	R
Growmark, Inc.	28X50	3	19	R
Prairie Brand Seeds	PB-2556R2	3	19	R
Latham Hi-Tech Seeds	Latham L2645R2	3	19	R
Prairie Brand Seeds	PB-2600R2	4	23	MR
e-Merge/Schillinger Genetics	I29061	4	24	MR
U of I	Illini 2643N	5	35	MR
e-Merge/Schillinger Genetics	E2866	6	38	MR
Latham Hi-Tech Seeds	Latham L2978L	7	46	MS
LG Seed Xtend	C2535RX	7	49	MS
U of I	Illini 2561Na	10	68	S
Stine Seed Co.	28LI02	11	70	S
Check	2900CR (sus)	15	99	S
e-Merge/Schillinger Genetics	27H683	18	122	S
Latham Hi-Tech Seeds	Latham L2558L	19	126	S
	Mean	1.98		
	P > F	<.0001		
	LSD	5		

2016 USB SDS Commercial Variety Test
Maturity Group III Early – Ames, IA and Monmouth, IL

Company	Entry	Ames Foliar DX	Monmouth Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Burrus Seed	Power Plus 31W7 ^{TM*} brand	0	0	0	0	R
Beck's Hybrids	3153X2	.	0	0	0	R
Beck's Hybrids	338L4	.	0	0	0	R
Prairie Brand Seeds	PB-3487R2	.	0	0	0	R
LG Seed	C3344LL	0	0	0	0	R
LG Seed Xtend	C3333RX	0	0	0	0	R
Beck's Hybrids	3353X2	0	0	0	0	R
Dyna-Gro Seed	S32LL57	0	0	0	0	R
Beck's Hybrids	333R4 ^{TM*} brand	0	0	0	0	R
Beck's Hybrids	345R4 ^{TM*} brand	0	0	0	0	R
Prairie Brand Seeds	PB-3186R2	0	0	0	1	R
e-Merge/Schillinger Genetics	E3192	0	0	0	1	R
Prairie Brand Seeds	PB-3342R2	0	0	0	1	R
Dyna-Gro Seed	S33XT07	0	0	0	1	R
U of I	Illini 3279Na	0	0	0	1	R
Stine Seed Co.	29RI32	0	0	0	1	R
LG Seed Xtend	C3026RX	1	0	0	1	R
Growmark, Inc.	31X60	1	0	0	1	R
Martin Seed Inc.	M31Xtend	1	0	0	1	R
U of I	Illini 3255N	1	0	0	1	R
Beck's Hybrids	317	1	0	0	1	R
Beck's Hybrids	323R4 ^{TM*} brand	1	0	0	1	R
U of I	Illini 3264N	1	0	0	2	R
Dyna-Gro Seed	37RY33	1	0	0	2	R
Dyna-Gro Seed	S30XT96	1	0	0	2	R
e-Merge/Schillinger Genetics	34H608	1	0	0	2	R
U of I	Illini 3025N	1	0	0	2	R
Stine Seed Co.	33LI32	1	0	0	2	R
Dairyland Seed	DSR-3250/R2Y	0	0	0	2	R
Brodbeck	333R2	1	0	0	2	R
Check	LD06-14187R (int)	1	0	0	2	R
Stine Seed Co.	31LI32	1	0	0	2	R
Kruger Seed	K2X-3353	1	0	0	2	R
Kruger Seed	K2X-3442	1	0	0	2	R
Kruger Seed	K2X-3141	1	0	0	2	R
Beck's Hybrids	3091X2	1	0	0	2	R
Stine Seed Co.	31LE32	1	0	1	3	R
Prairie Brand Seeds	PB-3087R2	1	0	1	3	R
Dairyland Seed	DSR-3434/R2Y	1	0	1	3	R
Latham Hi-Tech Seeds	Latham L3384L	1	0	1	3	R
Latham Hi-Tech Seeds	Latham L3394R2X	1	0	1	3	R
U of I	Illini 3455N	1	0	1	3	R
Dyna-Gro Seed	S3305N	1	1	1	3	R

2016 USB SDS Commercial Variety Test
Maturity Group III Early – Ames, IA and Monmouth, IL

Company	Entry	Ames Foliar DX	Monmouth Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Channel	3417R2X	1	0	1	3	R
Growmark, Inc.	34X60	1	0	1	3	R
LG Seed	C3070R2	1	1	1	3	R
LG Seed	C3138LL	1	0	1	3	R
Growmark, Inc.	32L60	1	0	1	4	R
LG Seed	C3400	2	0	1	4	R
Channel	3116R2X	2	0	1	4	R
Latham Hi-Tech Seeds	Latham L3184R2	1	1	1	4	R
Beck's Hybrids	330	2	0	1	5	R
Growmark, Inc.	33X60	2	0	1	5	R
Dyna-Gro Seed	S31RY86	2	0	1	5	R
Stine Seed Co.	33RH20	2	0	1	5	R
LG Seed	C3466R2	2	0	1	6	R
Beck's Hybrids	312R4 ^{TM*} brand	2	0	1	6	R
Dyna-Gro Seed	S33RY76	2	0	1	6	R
Prairie Brand Seeds	PB-3455R2	3	0	2	8	R
Martin Seed Inc.	M33B	3	0	2	8	R
Latham Hi-Tech Seeds	Latham L3085R2X	3	0	2	8	R
Beck's Hybrids	314L4	3	0	2	8	R
LG Seed	C3321R2	4	0	2	11	R
U of I	Illini 3056Na	6	1	3	16	R
Prairie Brand Seeds	PB-3377R2	9	0	5	23	MR
Latham Hi-Tech Seeds	Latham L3158L	9	1	5	24	MR
Stine Seed Co.	32RF02	10	0	5	25	MR
e-Merge/Schillinger Genetics	E3066	15	0	8	38	MR
Mycogen	5N333R2	25	0	12	62	S
LG Seed	C3171R2	31	0	16	79	S
Check	U96-11 (sus)	11	29	20	101	S
	Mean	3	0			
	<i>P</i> > F	<.0001	<.0001			
	LSD	8	4			

2016 USB SDS Commercial Variety Test

Maturity Group III Late – Shawneetown, IL Valmeyer, IL and Monmouth, IL

Company	Entry	Shawneetown	Valmeyer	Monmouth	Mean	Relative	Suggested
		Foliar DX	Foliar DX	Foliar DX	Foliar DX	DX	Category
U of I	Illini 3613N	0	0	0	0	0	R
Channel	3617R2X	0	0	0	0	0	R
Martin Seed Inc.	M35Xtend	0	0	0	0	0	R
Pfister	35R201	0	0	0	0	0	R
LG Seed Xtend	C3550RX	0	0	0	0	0	R
Beck's Hybrids	350	0	0	0	0	0	R
Brodbeck	396R2	0	0	0	0	0	R
Dyna-Gro Seed	S35XT97	0	0	0	0	1	R
Growmark, Inc.	38L32	0	1	0	0	1	R
Beck's Hybrids	387R4™*brand	1	0	0	0	1	R
Beck's Hybrids	394L4	1	0	0	0	1	R
Prairie Brand Seeds	PB-3956R2	1	0	0	1	1	R
LG Seed	C3900	1	0	0	1	1	R
Beck's Hybrids	354L4	1	0	0	1	1	R
Beck's Hybrids	3553X2	0	1	0	1	1	R
U of I	Illini 3866N	1	0	0	1	2	R
Stine Seed Co.	38LE02	0	0	1	1	2	R
Dyna-Gro Seed	S38LL54	1	0	0	1	2	R
Prairie Brand Seeds	PB-3747R2	2	0	0	1	2	R
Latham Hi-Tech Seeds	Latham L3548R2X	1	0	0	1	2	R
Burrus Seed	Power Plus 35C7™*brand	1	0	0	1	2	R
e-Merge/Schillinger Genetics	E3796s	1	0	1	1	2	R
Beck's Hybrids	3953X2	1	0	1	1	2	R
U of I	Illini 3849N	2	0	0	1	2	R
Growmark, Inc.	39X60	0	0	1	1	2	R
Burrus Seed	Hoblit 384LL	1	0	0	1	2	R
Check	SS02-15897 (int)	0	2	0	1	2	R
Check	LD06-7862 (res)	1	1	0	1	2	R
LG Seed	C3989R2	2	0	0	1	2	R
Dyna-Gro Seed	S38XS46	1	0	1	1	2	R
LG Seed	C3647R2	2	0	0	1	2	R
Check	LD11-13814R (res)	2	0	0	1	2	R
Mycogen	5N363R2	2	0	0	1	3	R
Kruger Seed	K2X-3552	2	0	0	1	3	R
e-Merge/Schillinger Genetics	E3575s	1	0	1	1	3	R
Check	LD11-13342Ra (res)	2	0	1	1	3	R
Dairyland Seed	DSR-3745/R2Y	2	0	1	1	3	R
Dyna-Gro Seed	S37RS96	3	0	0	1	4	R
Channel	3517R2X	0	0	2	2	4	R

2016 USB SDS Commercial Variety Test

Maturity Group III Late – Shawneetown, IL Valmeyer, IL and Monmouth, IL

Company	Entry	Shawneetown	Valmeyer	Monmouth	Mean	Relative	Suggested
		Foliar DX	Foliar DX	Foliar DX	Foliar DX	DX	Category
e-Merge/Schillinger Genetics	389F.YC	3	0	0	2	4	R
LG Seed	C3770R2	2	0	1	2	4	R
Dyna-Gro Seed	S39XT67	3	0	0	2	4	R
Channel	3816R2X/SR	1	1	2	2	4	R
Burrus Seed	Power Plus 38K6™* _{brand}	3	0	0	2	4	R
Prairie Brand Seeds	PB-3699R2	3	0	0	2	4	R
Dyna-Gro Seed	S37XT47	4	0	0	2	4	R
Beck's Hybrids	380	3	0	1	2	4	R
Prairie Brand Seeds	PB-3677R2	4	0	0	2	4	R
e-Merge/Schillinger Genetics	E3553	3	1	0	2	4	R
Dyna-Gro Seed	S3805N	3	0	0	2	4	R
Mycogen	5N354R2	4	0	0	2	5	R
LG Seed Xtend	C3911RX	4	0	0	2	5	R
Martin Seed Inc.	M35C	4	0	0	2	5	R
Stine Seed Co.	36LE32	1	0	3	2	5	R
Beck's Hybrids	366L4	4	0	1	2	5	R
LG Seed	C3848	4	1	0	2	5	R
Dyna-Gro Seed	S35LS15	4	0	0	2	6	R
LG Seed	C3904LL	5	0	0	2	6	R
Dyna-Gro Seed	S36LL77	5	0	0	2	6	R
e-Merge/Schillinger Genetics	E3975s	4	0	0	2	6	R
U of I	Illini 3822NSTS	3	0	2	3	6	R
Growmark, Inc.	39A60	5	0	0	3	7	R
Beck's Hybrids	3753X2	6	0	0	3	7	R
Prairie Brand Seeds	PB-3878R2	3	0	2	3	7	R
Growmark, Inc.	38X60	3	1	2	3	7	R
Prairie Brand Seeds	PB-3586R2	4	1	1	3	7	R
e-Merge/Schillinger Genetics	E3520s	4	2	0	3	8	R
Burrus Seed	Hobbit 355LL	5	2	0	3	8	R
Stine Seed Co.	38RE02	6	0	1	3	8	R
Dyna-Gro Seed	S39RY65	5	2	0	3	8	R
Growmark, Inc.	39C42	7	0	0	3	8	R
Dairyland Seed	DSR-3630/R2Y	6	1	0	4	8	R
Growmark, Inc.	37X60	7	0	0	4	9	R
Stine Seed Co.	34LE32	8	0	0	4	10	R
U of I	Illini 3989N	8	0	0	4	10	R
Burrus Seed	Power Plus 36J3™* _{brand}	8	0	0	4	10	R
Stine Seed Co.	37RI02	7	2	0	4	10	R
Growmark, Inc.	35L42	5	3	1	4	10	R
Channel	3917R2X	6	0	4	5	12	R

2016 USB SDS Commercial Variety Test

Maturity Group III Late – Shawneetown IL, Valmeyer IL and Monmouth IL

Company	Entry	Shawneetown	Valmeyer	Monmouth	Mean	Relative	Suggested
		Foliar DX	Foliar DX	Foliar DX	Foliar DX	DX	Category
Kruger Seed	K2X-3852	4	6	0	5	12	R
LG Seed	C3753LL	9	1	0	5	12	R
Beck's Hybrids	382L4	4	1	6	5	13	R
Dyna-Gro Seed	S35RY83	3	0	8	5	13	R
e-Merge/Schillinger Genetics	E3776s	10	1	0	6	14	R
e-Merge/Schillinger Genetics	E3865s	10	0	3	6	15	R
e-Merge/Schillinger Genetics	E3782s	10	2	1	6	15	R
Burrus Seed	Power Plus 39R5 ^{TM*} _{brand}	12	1	0	6	15	R
e-Merge/Schillinger Genetics	E3692s	9	2	1	7	16	R
Dyna-Gro Seed	S38RY87	5	1	8	7	16	R
e-Merge/Schillinger Genetics	E3494	10	4	1	7	18	R
e-Merge/Schillinger Genetics	E3756s	12	2	2	7	18	R
Dairyland Seed	DSR-3838/R2Y	7	0	9	8	18	R
U of I	Illini 3814	5	6	6	8	19	R
Stine Seed Co.	38LF22	6	9	2	8	20	R
U of I	Illini 3711N	6	6	6	9	22	MR
Check	MAC02-256 (sus)	9	5	5	9	22	MR
LG Seed	C3511LL	11	10	0	11	25	MR
Check	Morgan (sus)	24	49	11	42	101	S
	Mean	4	1	1			
	<i>P</i> > <i>F</i>	<.0001	<.0001	<.0001			
	LSD	6	5	4			

2016 USB SDS Commercial Variety Test
Maturity Group IV Early – Shawneetown, IL and Valmeyer, IL

Company	Entry	Shawneetown Foliar DX	Valmeyer Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Beck's Hybrids	4453X2	0	0	0	0	R
Check	Ripley (res)	0	0	0	0	R
Beck's Hybrids	449L4	0	0	0	0	R
e-Merge/Schillinger Genetics	E4394	1	0	0	1	R
Stine Seed Co.	42LF22	1	0	1	1	R
LG Seed	C4411R2	2	0	1	2	R
Growmark, Inc.	44X60	2	0	1	2	R
Growmark, Inc.	40X60	2	0	1	2	R
Baker Seed	Baker 4052NRR	2	0	1	2	R
Burrus Seed	Hoblit 426LL	0	3	1	3	R
Beck's Hybrids	418NR ^{TM*} brand	0	3	2	4	R
Burrus Seed	Power Plus 42V6 ^{TM*} brand	2	2	2	4	R
LG Seed	C4100LL	4	0	2	4	R
Beck's Hybrids	424L4	3	1	2	4	R
Stine Seed Co.	41LF32	4	0	2	4	R
Dairyland Seed	DSR-4225/R2Y	1	5	3	6	R
Mycogen	5N424R2	2	4	3	6	R
Growmark, Inc.	43X60	0	6	3	6	R
LG Seed Xtend	C4458RX	0	7	4	8	R
Beck's Hybrids	4291X2	2	6	4	8	R
Dyna-Gro Seed	S43XS27	0	8	4	9	R
LG Seed	C4145R2	3	5	4	9	R
Dyna-Gro Seed	39RY43	2	7	4	9	R
Stine Seed Co.	42LI32	0	9	5	10	R
Dyna-Gro Seed	S40LL35	8	2	5	10	R
e-Merge/Schillinger Genetics	E4194	5	5	5	11	R
Burrus Seed	Hoblit 405LL	5	5	5	11	R
Prairie Brand Seeds	PB-4343R2	6	6	6	12	R
Baker Seed	Baker 4322NRR	3	8	6	12	R
Baker Seed	Baker 4462NRR	0	11	6	12	R
LG Seed	C4322R2	1	11	6	13	R
Beck's Hybrids	419L4	6	6	6	13	R
Mycogen	5N433R2	3	9	6	13	R
Dairyland Seed	DSR-4011/R2Y	7	7	7	14	R
Channel	4216R2X/SR	3	10	7	14	R
e-Merge/Schillinger Genetics	E4356s	5	9	7	15	R
Stine Seed Co.	42LH22	13	1	7	15	R
Stine Seed Co.	42LH02	5	11	8	16	R
Stine Seed Co.	41RI32	8	.	8	17	R
Channel	4116R2X	2	14	8	17	R
Beck's Hybrids	401	7	9	8	17	R
Dyna-Gro Seed	S42RY77	2	15	8	17	R
LG Seed Xtend	C4239RX	2	16	9	19	R

2016 USB SDS Commercial Variety Test
Maturity Group IV Early – Shawneetown, IL and Valmeyer, IL

Company	Entry	Shawneetown Foliar DX	Valmeyer Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Beck's Hybrids	431N	13	6	9	19	R
Growmark, Inc.	41L42	11	8	10	20	R
Dyna-Gro Seed	S42LL63	10	14	12	25	MR
Check	MAC02-4757 (sus)	12	.	12	25	MR
GDM Seeds, INC.	R2D2213008244-8	11	14	12	26	MR
Dyna-Gro Seed	S43RY95	4	24	14	29	MR
Dyna-Gro Seed	S4307N	11	18	14	30	MR
LG Seed	C4221R2	18	11	14	30	MR
Growmark, Inc.	42X50	.	15	15	31	MR
Prairie Brand Seeds	PB-4186R2	5	26	15	32	MR
Growmark, Inc.	44L60	15	16	16	32	MR
Stine Seed Co.	41RH22	19	13	16	33	MR
Pfister	41RS01	9	28	19	39	MR
Growmark, Inc.	43C60	.	19	19	40	MR
Dyna-Gro Seed	S44LS76	15	23	19	40	MR
GDM Seeds, INC.	R2D2213004340-8	19	23	21	44	MS
Check	Spencer (sus)	29	68	48	101	S
	Mean	6	9			
	<i>P</i> > <i>F</i>	<.0001	<.0001			
	LSD	10	16			

2016 USB SDS Commercial Variety Test
Maturity Group IV Late – Shawneetown, IL and Valmeyer, IL

Company	Entry	Shawneetown Foliar DX	Valmeyer Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Beck's Hybrids	494L4	.	0	0	0	R
Dyna-Gro Seed	S48XT56	0	0	0	0	R
Check	LS94-3207 (res)	0	0	0	0	R
Stine Seed Co.	49LH02	0	0	0	0	R
Growmark, Inc.	49X60	0	1	0	1	R
LG Seed Xtend	C4845RX	1	0	0	1	R
Beck's Hybrids	4991X2	1	0	0	1	R
Check	Pharaoh (res)	2	0	1	2	R
e-Merge/Schillinger Genetics	E4616	3	0	2	3	R
Beck's Hybrids	454L4	3	0	2	3	R
Mycogen	5N480R2	2	2	2	3	R
e-Merge/Schillinger Genetics	E4892s	2	2	2	3	R
Stine Seed Co.	45RI02	0	5	2	4	R
Channel	4616R2X/SR	4	1	3	5	R
Dyna-Gro Seed	S46XS87	3	3	3	5	R
e-Merge/Schillinger Genetics	E4846s	4	2	3	6	R
Beck's Hybrids	460	4	3	3	6	R
Channel	4717R2X/SR	3	4	3	6	R
Stine Seed Co.	43RI02	7	0	3	6	R
Channel	4517R2X/SR	6	1	4	7	R
Beck's Hybrids	4653X2	7	1	4	7	R
Channel	4916R2X/SR	9	0	4	8	R
e-Merge/Schillinger Genetics	49X568	7	3	5	8	R
Beck's Hybrids	453R4 ^{TM*} _{brand}	7	4	5	9	R
Stine Seed Co.	47RI02	7	4	5	10	R
e-Merge/Schillinger Genetics	E4510s	7	4	6	10	R
Dyna-Gro Seed	S45XS37	11	1	6	10	R
Dyna-Gro Seed	S49XS76	4	7	6	10	R
Stine Seed Co.	48RI23	12	0	6	11	R
Dyna-Gro Seed	S49XT07	4	8	6	11	R
Beck's Hybrids	465R4 ^{TM*} _{brand}	9	5	7	13	R
Growmark, Inc.	46X60	9	8	8	15	R
Pfister	47R22	12	4	8	15	R
Growmark, Inc.	48X60	5	12	9	16	R
Stine Seed Co.	48LI32	8	12	10	18	R
GDM Seeds, INC.	GDM15X002	15	5	10	19	R
LG Seed	C4585LL	14	7	10	19	R
LG Seed	C4780R2	13	8	10	19	R
GDM Seeds, INC.	R2D2213017253-12	11	10	10	19	R
Stine Seed Co.	47LF32	6	16	11	20	R
Pfister	45R203	5	17	11	20	R
University of Missouri	S12-3791	23	0	11	21	MR
Dyna-Gro Seed	31RY45	14	9	11	21	MR
Check	DP 4933RR (int)	10	13	11	21	MR
Stine Seed Co.	48RI22	14	9	12	21	MR
LG Seed	C4867R2	14	10	12	22	MR

2016 USB SDS Commercial Variety Test
Maturity Group IV Late – Shawneetown, IL and Valmeyer, IL

Company	Entry	Shawneetown Foliar DX	Valmeyer Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Dyna-Gro Seed	S45LL97	16	8	12	22	MR
e-Merge/Schillinger Genetics	E4575	14	12	13	23	MR
Baker Seed	Baker 4552NRR	17	9	13	24	MR
LG Seed Xtend	C4615RX	5	22	14	25	MR
Stine Seed Co.	44LI03	6	22	14	26	MR
e-Merge/Schillinger Genetics	E4765	9	20	14	26	MR
Baker Seed	Baker 4842NRRSTS	9	23	16	29	MR
University of Missouri	S12-3782	12	21	16	30	MR
Dyna-Gro Seed	S48RS53	17	18	17	31	MR
Beck's Hybrids	474L4	9	27	18	32	MR
Stine Seed Co.	48RI02	34	2	18	33	MR
Beck's Hybrids	487R4 ^{TM*} _{brand}	14	22	18	33	MR
GDM Seeds, INC.	R2D2212007038-12	22	16	19	35	MR
GDM Seeds, INC.	DM4609	16	22	19	35	MR
GDM Seeds, INC.	R2D2211010490-9	23	21	22	40	MR
Dyna-Gro Seed	S45XS66	32	12	22	40	MR
LG Seed	C4696R2	14	31	22	41	MS
GDM Seeds, INC.	R2D2213003324-15	36	13	24	45	MS
Beck's Hybrids	493R4 ^{TM*} _{brand}	24	26	25	45	MS
GDM Seeds, INC.	GDM15X004	35	21	28	51	MS
Check	S03-007CR (sus)	35	26	30	55	MS
GDM Seeds, INC.	R2D2212007038-6	39	27	33	59	MS
Burrus Seed	Power Plus 46A5 ^{TM*} _{brand}	17	50	33	61	S
LG Seed Xtend	C4900RX	46	37	41	75	S
Growmark, Inc.	47L50	15	70	42	77	S
University of Missouri	S12-2418	44	50	47	86	S
Dyna-Gro Seed	S49LL34	48	47	47	86	S
Stine Seed Co.	50LF32	51	45	48	88	S
GDM Seeds, INC.	GDM15X012	43	53	48	88	S
Check	CM 497 (sus)	43	68	55	101	S
Growmark, Inc.	49L50	34	78	56	102	S
GDM Seeds, INC.	R2D2213002899-5	63	57	60	109	S
	Mean	15	15			
	P > F	<.0001	<.0001			
	LSD	17	22			

2016 USB SDS Commercial Test

Maturity Group V Early – Shawneetown, IL and Valmeyer, IL

Company	Entry	Shawneetown Foliar DX	Valmeyer Foliar DX	Mean Foliar DX	Relative DX	Suggested Category
Beck's Hybrids	513R4 ^{TM*} brand	.	0	0	0	R
Check	Essex (int)	.	1	1	2	R
GDM Seeds, INC.	R2D2211011077-4	8	0	4	8	R
University of Missouri	S11-17025	13	0	7	12	R
Stine Seed Co.	52LI20	13	1	7	13	R
Dyna-Gro Seed	S52RY75	13	3	8	15	R
Stine Seed Co.	55RI02	16	1	8	15	R
Mycogen	5N522R2	18	1	9	17	R
GDM Seeds, INC.	R2D2212001769-1	21	0	11	19	R
University of Missouri	S12-4718	18	6	12	22	MR
University of Missouri	S11-20124	28	1	15	26	MR
GDM Seeds, INC.	R2D2213016808-7	28	3	16	28	MR
Mycogen	5N523R2	25	7	16	29	MR
Stine Seed Co.	51LE20	28	13	21	37	MR
Dyna-Gro Seed	S54XT17	18	23	21	37	MR
Stine Seed Co.	51LI32	31	16	24	43	MS
GDM Seeds, INC.	GDM15X019	46	4	25	46	MS
Dyna-Gro Seed	S52LL66	31	21	26	48	MS
Stine Seed Co.	50LD02	46	8	27	50	MS
GDM Seeds, INC.	R2D2212000566-5	28	27	27	50	MS
Check	Camp (sus)	37	20	28	52	MS
Dyna-Gro Seed	S52RS86	60	2	31	57	MS
e-Merge/Schillinger Genetics	E5110	52	11	31	57	MS
GDM Seeds, INC.	GDM15X009	46	22	34	62	S
Check	V82-2191 (sus)	34	.	34	62	S
Stine Seed Co.	54LE23	41	36	38	70	S
Stine Seed Co.	51RH20	73	4	39	70	S
LG Seed	C5121LL	38	41	40	72	S
Beck's Hybrids	522L4	47	41	44	80	S
GDM Seeds, INC.	R2D2213024984-3	67	42	54	99	S
Check	A5403 (sus)	74	36	55	100	S
	Mean	34	13			
	P > F	<.0001	<.0001			
	LSD	24	17			

2016 USB SDS Commercial Test
Maturity Group V Late – Shawneetown IL

Company	Entry	Shawneetown Foliar DX	Relative DX	Suggested Category
Check	Forrest (res)	0	0	R
Check	A5560 (res)	0	0	R
Dyna-Gro Seed	S55LS75	19	30	MR
GDM Seeds	R2D2213025562-1	20	31	MR
Stine Seed Co.	54LD00	22	35	MR
GDM Seeds	GDMI5X032	30	47	MS
GDM Seeds	R2D2212004876-2	33	52	MS
GDM Seeds	R2D2212004876-4	35	55	MS
GDM Seeds	R2D2212004876-6	36	57	MS
GDM Seeds	GDM15X020	53	83	S
Check	DP 105 (sus)	64	101	S
GDM Seeds	GDM15X006	64	101	S
	Mean	32		
	<i>P</i> > F	<.0001		
	LSD	22		

2016 USB SDS Commercial Test
Maturity Group III Late – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown FLS	Valmeyer FLS	Mean FLS
Public SDS Check	LD11-13814R	0	0	0
Growmark, Inc.	39C42	0	0	0
Burrus Seed	Power Plus 39R5™* _{brand}	0	0	0
e-Merge/Schillinger Genetics	E3756s	0	0	0
Mycogen	5N354R2	0	0	0
Dairyland Seed	DSR-3630/R2Y	1	0	0
e-Merge/Schillinger Genetics	E3494	1	0	0
LG Seed	C3904LL	1	0	0
LG Seed	C3900	1	0	1
Dyna-Gro Seed	S3805N	1	0	1
e-Merge/Schillinger Genetics	E3553	2	0	1
Prairie Brand Seeds	PB-3586R2	1	2	1
LG Seed	C3753LL	1	2	1
LG Seed	C3770R2	2	1	2
e-Merge/Schillinger Genetics	E3520s	2	1	2
e-Merge/Schillinger Genetics	E3865s	3	0	2
Beck's Hybrids	380	2	1	2
LG Seed	C3848	4	0	2
Pfister	35R201	3	1	2
Stine Seed Co.	38RE02	3	1	2
Channel	3617R2X	4	0	2
Prairie Brand Seeds	PB-3878R2	4	1	2
e-Merge/Schillinger Genetics	E3692s	3	1	2
e-Merge/Schillinger Genetics	E3782s	4	1	2
LG Seed	C3989R2	4	1	2
e-Merge/Schillinger Genetics	389F.YC	4	1	2
Prairie Brand Seeds	PB-3699R2	4	1	2
Growmark, Inc.	37X60	3	2	3
e-Merge/Schillinger Genetics	E3575s	4	2	3
Growmark, Inc.	39A60	6	0	3
e-Merge/Schillinger Genetics	E3796s	4	3	3
Dyna-Gro Seed	S37XT47	4	3	3
Prairie Brand Seeds	PB-3677R2	6	1	3
U of I	Illini 3989N	4	3	3
Prairie Brand Seeds	PB-3956R2	5	2	3
Public SDS Check	LD11-13342Ra	5	1	3
e-Merge/Schillinger Genetics	E3975s	5	2	3
Dairyland Seed	DSR-3838/R2Y	6	1	3
Beck's Hybrids	350	5	2	4
Beck's Hybrids	387R4™* _{brand}	5	2	4
U of I	Illini 3866N	6	1	4
Dyna-Gro Seed	S38RY87	5	2	4
Burrus Seed	Power Plus 38K6™* _{brand}	6	2	4
Beck's Hybrids	3753X2	4	3	4
Brodbeck	396R2	6	2	4
e-Merge/Schillinger Genetics	E3776s	3	5	4
Dairyland Seed	DSR-3745/R2Y	6	2	4
Kruger Seed	K2X-3852	6	2	4
Dyna-Gro Seed	S35RY83	5	3	4
Burrus Seed	Power Plus 35C7™* _{brand}	6	2	4
Burrus Seed	Hoblit 355LL	6	2	4
LG Seed Xtend	C3550RX	5	3	4
Stine Seed Co.	34LE32	6	2	4

2016 USB SDS Commercial Test

Maturity Group III Late – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown	Valmeyer	Mean
		FLS	FLS	FLS
Beck's Hybrids	366L4	6	3	5
Dyna-Gro Seed	S39RY65	6	3	5
Kruger Seed	K2X-3552	5	4	5
Latham Hi-Tech Seeds	Latham L3548R2X	5	4	5
Martin Seed Inc.	M35Xtend	6	4	5
Public SDS Check	Morgan	6	3	5
Public SDS Check	MAC02-256	6	4	5
U of I	Illini 3613N	6	4	5
Dyna-Gro Seed	S35XT97	6	4	5
Beck's Hybrids	354L4	6	4	5
Stine Seed Co.	37RI02	6	4	5
U of I	Illini 3711N	6	4	5
Growmark, Inc.	39X60	5	5	5
Channel	3816R2X/SR	6	4	5
Martin Seed Inc.	M35C	5	5	5
Dyna-Gro Seed	S35LS15	6	4	5
LG Seed	C3511LL	6	4	5
Beck's Hybrids	394L4	6	4	5
Burrus Seed	Hoblit 384LL	6	4	5
Channel	3917R2X	6	4	5
Public SDS Check	SS02-15897	5	5	5
Stine Seed Co.	36LE32	5	5	5
Beck's Hybrids	382L4	6	4	5
Stine Seed Co.	38LF22	6	4	5
Growmark, Inc.	38L32	6	5	6
Dyna-Gro Seed	S37RS96	6	5	6
Growmark, Inc.	35L42	6	5	6
Public SDS Check	LD06-7862	6	5	6
Stine Seed Co.	38LE02	6	5	6
Dyna-Gro Seed	S38LL54	6	5	6
Dyna-Gro Seed	S39XT67	6	5	6
Dyna-Gro Seed	S36LL77	6	5	6
LG Seed Xtend	C3911RX	6	5	6
Prairie Brand Seeds	PB-3747R2	6	6	6
LG Seed	C3647R2	6	6	6
U of I	Illini 3822NSTS	6	6	6
Beck's Hybrids	3953X2	7	5	6
Channel	3517R2X	6	6	6
Burrus Seed	Power Plus 36J3 ^{TM*} brand	7	5	6
Mycogen	5N363R2	6	6	6
U of I	Illini 3814	7	5	6
U of I	Illini 3849N	6	6	6
Dyna-Gro Seed	S38XS46	6	6	6
Growmark, Inc.	38X60	6	6	6
Beck's Hybrids	3553X2	3	2	3
	Mean	5	3	
	P > F	<.0001	<.0001	
	LSD	1	3	

2016 USB SDS Commercial Test

Maturity Group IV Early – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown FLS	Valmeyer FLS	Mean FLS
Growmark, Inc.	44X60	0	0	0
Stine Seed Co.	41LF32	0	0	0
Public SDS Check	MAC02-4757 (res)	0	.	0
Burrus Seed	Power Plus 42V6 ^{TM*} brand	0	0	0
Beck's Hybrids	4453X2	0	0	0
Beck's Hybrids	401	0	0	0
LG Seed Xtend	C4458RX	0	0	0
Beck's Hybrids	424L4	0	0	0
Stine Seed Co.	42LH02	0	0	0
Dyna-Gro Seed	S44LS76	0	0	0
LG Seed	C4100LL	0	0	0
Dyna-Gro Seed	S40LL35	0	0	0
Burrus Seed	Hoblit 426LL	1	0	0
Stine Seed Co.	42LI32	1	0	0
Stine Seed Co.	42LF22	1	0	0
Growmark, Inc.	41L42	0	0	0
Burrus Seed	Hoblit 405LL	1	0	0
Dyna-Gro Seed	S42RY77	0	1	1
Dyna-Gro Seed	S42LL63	1	0	1
GDM Seeds, INC.	R2D2213008244-8	1	1	1
Beck's Hybrids	419L4	2	0	1
GDM Seeds, INC.	R2D2213004340-8	2	1	1
Beck's Hybrids	431N	3	0	2
Public SDS Check	Ripley	4	0	2
Dairyland Seed	DSR-4225/R2Y	3	2	2
Mycogen	5N424R2	3	2	3
Growmark, Inc.	40X60	4	1	3
LG Seed	C4145R2	4	2	3
Dyna-Gro Seed	S43XS27	4	2	3
Baker Seed	Baker 4052NRR	5	2	3
e-Merge/Schillinger Genetics	E4394	5	2	4
LG Seed	C4221R2	5	2	4
Growmark, Inc.	43X60	5	2	4
Dairyland Seed	DSR-4011/R2Y	4	3	4
Mycogen	5N433R2	5	2	4
Stine Seed Co.	41RH22	5	2	4
Beck's Hybrids	449L4	6	2	4
Beck's Hybrids	4291X2	6	2	4
Stine Seed Co.	41RI32	4	.	4
Growmark, Inc.	43C60	.	4	4
Baker Seed	Baker 4462NRR	6	2	4
Channel	4116R2X	5	3	4
e-Merge/Schillinger Genetics	E4194	6	3	5
Prairie Brand Seeds	PB-4343R2	7	2	5
Baker Seed	Baker 4322NRR	7	2	5
Dyna-Gro Seed	S43RY95	5	4	5
Dyna-Gro Seed	39RY43	7	2	5
Dyna-Gro Seed	S4307N	7	3	5
Growmark, Inc.	42X50	.	5	5
Prairie Brand Seeds	PB-4186R2	6	5	5
Pfister	41RS01	6	5	5
LG Seed	C4322R2	7	4	6

2016 USB SDS Commercial Test
Maturity Group IV Early – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown FLS	Valmeyer FLS	Mean FLS
e-Merge/Schillinger Genetics	E4356s	6	5	6
Growmark, Inc.	44L60	7	4	6
Stine Seed Co.	42LH22	6	6	6
Beck's Hybrids	418NR ^{TM*} _{brand}	7	6	6
LG Seed	C4411R2	7	6	7
Channel	4216R2X/SR	7	6	7
LG Seed Xtend	C4239RX	7	6	7
Public SDS Check	Spencer	7	6	7
	Mean	4	2	
	<i>P</i> > <i>F</i>	<.0001	<.0001	
	LSD	2	2	

2016 USB SDS Commercial Test

Maturity Group IV Late – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown FLS	Valmeyer FLS	Mean FLS
Beck's Hybrids	494L4	.	0	0
Beck's Hybrids	465R4 ^{TM*} brand	0	0	0
Stine Seed Co.	44LI03	0	0	0
Stine Seed Co.	49LH02	0	0	0
Growmark, Inc.	47L50	0	0	0
Burrus Seed	Power Plus 46A5 ^{TM*} brand	0	0	0
Public SDS Check	LS94-3207	0	0	0
Beck's Hybrids	4653X2	0	0	0
University of Missouri	S12-2418	0	0	0
GDM Seeds, INC.	GDM15X012	0	0	0
Dyna-Gro Seed	S45XS37	0	0	0
GDM Seeds, INC.	R2D2213017253-12	0	0	0
Stine Seed Co.	47LF32	0	0	0
GDM Seeds, INC.	R2D2213002899-5	0	0	0
Stine Seed Co.	47RI02	0	0	0
University of Missouri	S12-3782	0	0	0
GDM Seeds, INC.	DM4609	0	0	0
GDM Seeds, INC.	R2D2212007038-12	0	0	0
Stine Seed Co.	48LI32	0	0	0
Dyna-Gro Seed	S49XT07	0	0	0
Beck's Hybrids	487R4 ^{TM*} brand	0	1	0
Beck's Hybrids	453R4 ^{TM*} brand	0	0	0
LG Seed Xtend	C4900RX	1	0	0
Growmark, Inc.	49L50	1	0	1
Dyna-Gro Seed	S45LL97	1	0	1
Dyna-Gro Seed	S49LL34	0	1	1
Dyna-Gro Seed	31RY45	0	1	1
GDM Seeds, INC.	GDM15X002	0	1	1
University of Missouri	S12-3791	1	0	1
GDM Seeds, INC.	R2D2212007038-6	0	1	1
Beck's Hybrids	493R4 ^{TM*} brand	1	1	1
Dyna-Gro Seed	S45XS66	0	2	1
Public SDS Check	Pharaoh	2	0	1
Beck's Hybrids	474L4	0	3	1
Stine Seed Co.	50LF32	5	0	3
Public SDS Check	S03-007CR	5	1	3
e-Merge/Schillinger Genetics	E4575	5	1	3
Stine Seed Co.	48RI02	4	2	3
GDM Seeds, INC.	GDM15X004	6	0	3
Channel	4916R2X/SR	3	4	3
Growmark, Inc.	49X60	6	1	4
LG Seed Xtend	C4615RX	7	0	4
LG Seed Xtend	C4845RX	6	1	4
Growmark, Inc.	48X60	7	1	4
Public SDS Check	DP 4933RR	6	1	4
e-Merge/Schillinger Genetics	E4765	6	2	4

2016 USB SDS Commercial Test

Maturity Group IV Late – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown FLS	Valmeyer FLS	Mean FLS
Beck's Hybrids	4991X2	6	2	4
Beck's Hybrids	460	7	1	4
Stine Seed Co.	48RI23	7	1	4
Growmark, Inc.	46X60	7	1	4
Public SDS Check	CM 497	5	3	4
Dyna-Gro Seed	S46XS87	7	1	4
LG Seed	C4780R2	7	1	4
Channel	4717R2X/SR	8	1	4
Dyna-Gro Seed	S48XT56	7	2	4
Pfister	47R22	7	2	5
Dyna-Gro Seed	S48RS53	7	3	5
Channel	4517R2X/SR	5	4	5
Dyna-Gro Seed	S49XS76	7	3	5
e-Merge/Schillinger Genetics	E4892s	8	2	5
Stine Seed Co.	45RI02	8	2	5
e-Merge/Schillinger Genetics	E4510s	8	2	5
e-Merge/Schillinger Genetics	49X568	7	3	5
e-Merge/Schillinger Genetics	E4846s	7	4	5
Mycogen	5N480R2	7	3	5
e-Merge/Schillinger Genetics	E4616	8	3	5
Beck's Hybrids	454L4	8	3	6
LG Seed	C4585LL	8	3	6
Channel	4616R2X/SR	7	4	6
Pfister	45R203	8	4	6
Baker Seed	Baker 4552NRR	8	4	6
LG Seed	C4696R2	8	4	6
GDM Seeds, INC.	R2D2213003324-15	8	4	6
Baker Seed	Baker 4842NRRSTS	8	5	6
LG Seed	C4867R2	8	5	7
GDM Seeds, INC.	R2D2211010490-9	7	6	7
Stine Seed Co.	43RI02	9	5	7
Stine Seed Co.	48RI22	8	6	7
	Mean	4	2	
	<i>P</i> > <i>F</i>	<.0001	<.0001	
	LSD	2	2	

2016 USB SDS Commercial Test

Maturity Group V Early – Frogeye Leaf Spot Rating

Company	Entry	Shawneetown	Valmeyer	Mean
		FLS	FLS	FLS
Beck's Hybrids	513R4 ^{TM*} brand	.	0	0
Mycogen	5N522R2	0	0	0
Public SDS Check	V82-2191	0	.	0
Beck's Hybrids	522L4	0	0	0
Dyna-Gro Seed	S52RY75	0	0	0
University of Missouri	S11-20124	0	0	0
University of Missouri	S12-4718	0	0	0
Dyna-Gro Seed	S52LL66	0	0	0
Stine Seed Co.	54LE23	0	0	0
University of Missouri	S11-17025	0	0	0
LG Seed	C5121LL	0	0	0
GDM Seeds, INC.	GDM15X009	0	0	0
Stine Seed Co.	55RI02	0	0	0
Stine Seed Co.	51LE20	0	0	0
GDM Seeds, INC.	R2D2212000566-5	0	0	0
GDM Seeds, INC.	GDM15X019	0	0	0
GDM Seeds, INC.	R2D2213024984-3	0	1	1
GDM Seeds, INC.	R2D2213016808-7	0	1	1
GDM Seeds, INC.	R2D2211011077-4	0	1	1
GDM Seeds, INC.	R2D2212001769-1	0	1	1
Stine Seed Co.	50LD02	0	2	1
Dyna-Gro Seed	S54XT17	2	1	1
Stine Seed Co.	51LI32	4	0	2
Public SDS Check	Essex	.	3	3
Stine Seed Co.	52LI20	6	0	3
Public SDS Check	Camp	5	5	5
Public SDS Check	A5403	6	5	5
Dyna-Gro Seed	S52RS86	8	6	7
Mycogen	5N523R2	8	6	7
e-Merge/Schillinger Genetics	E5110	8	6	7
Stine Seed Co.	51RH20	8	6	7
	Mean	1.9	1.5	
	<i>P</i> > <i>F</i>	<.0001	<.0001	
	LSD	0.8	1.6	