

2019 Delaware Soybean Variety Trial Results

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Thank you to the companies who participated and support the trials. Special thanks to the cooperating farmers for their assistance. Thank you also to our farm staff for their help in operating and maintaining equipment and with support and logistics without which these trials would not be possible.

Location Georgetown
 Maturity Group 3.3-4.4
 Trial ID: Soy GT Full Season 1-19
 Irrigated Conv. Tillage
 Previous crop Corn
 Plant date 5/10/2019
 Harvest date 10/1/2019

Variety	Company	Yield bu./A*		T.W.	Height (in.)	Maturity (Julian)	Group	Rank x Yield GT FS 1
S41XS98	Dyna-Gro	81.33	a	54.23	28	267	4.1	1
S43XS27	Dyna-Gro	79.59	ab	50.55	28	276	4.3	2
7447XTS	UniSouth Genetics, Inc.	77.75	abc	50.35	30	275	4.4	3
SC8399X	Seed Consultants	76.82	a-d	52.1	29	267	3.9	4
SH 3814 LL	Meherrin Ag.	76.37	a-d	52.33	27	270	3.8	5
LS4487XS	Local Seed	75.32	a-e	52.3	32	272	4.4	6
ARMOR X38D53	ARMOR SEED	74.7	a-e	52.83	25	266	3.8	7
S42EN89	Dyna-Gro	74.65	a-e	53.28	27	268	4.2	8
S44-C7X	Syngenta - NK Brand	73.19	a-f	51.15	27	275	4.4	9
7410ET	UniSouth Genetics, Inc.	73.1	a-f	54.23	24	270	4.1	10
S39EN19	Dyna-Gro	72.74	a-f	51.53	26	270	3.9	11
SH 4019 LLGT27	Meherrin Ag.	72.74	a-f	53.28	31	275	4	12
LSX4201GLS	Local Seed	72.58	a-g	53.67	27	270	4.2	13
H43-27R2X	Hubner Seed	71.6	a-h	51.51	30	275	4.3	14
S42-B9XS	Syngenta - NK Brand	71.19	a-h	52.58	27	268	4.2	15
CZ 3929 GTLL	BASF	70.5	a-i	52.28	30	272	3.9	16
ARMOR 44-D92	ARMOR SEED	70.36	a-i	51.8	29	275	4.4	18
7370ET	UniSouth Genetics, Inc.	69.97	a-i	52.85	25	266	3.7	17
SC8428X	Seed Consultants	69.44	a-i	53.8	26	268	4.2	19
7429ET	UniSouth Genetics, Inc.	69.4	a-i	53	27	269	4.2	20
7399ET	UniSouth Genetics, Inc.	68.88	a-i	52.78	25	269	3.9	21

HS 44X80	Growmark FS	67.07	a-i	52.83	28	266	4.4	22
S39-G2X	Syngenta - NK Brand	67.02	a-i	52.38	28	267	3.9	23
ARMOR 42-D27	ARMOR SEED	66.4	a-i	53.73	27	269	4.2	24
S37EN39	Dyna-Gro	65.49	a-i	52.74	24	266	3.9	25
C4227RX	LG Seeds	65.43	a-i	53.4	28	268	4.2	26
7440ETS	UniSouth Genetics, Inc.	65.27	a-i	50.68	29	276	4.4	27
LSX4301XS	Local Seed	61.63	b-i	51.68	26	274	4.2	28
LGS3777RX	LG Seeds	61.38	b-i	51.93	27	265	3.7	29
C3985RX	LG Seeds	59.91	c-i	52.45	26	269	3.9	30
SH 4020 Enlist E3	Meherrin Ag.	59.46	c-i	52.48	26	269	4	31
LSX3701GL	Local Seed	59.36	c-i	51.83	25	265	3.7	32
CZ 3519 GTLL	BASF	59.33	c-i	52.83	29	265	3.5	33
7390ET	UniSouth Genetics, Inc.	58.45	d-i	51.17	21	270	3.9	34
LS3787XS	Local Seed	57.82	e-i	52.28	26	265	3.7	35
CZ 3309 GTLL	BASF	56.06	f-i	51.85	29	264	3.3	36
S39XT68	Dyna-Gro	54.19	ghi	52.25	25	267	3.9	37
H39-28R2X	Hubner Seed	54.13	hi	50.78	26	265	3.9	38
S37-A4X	Syngenta - NK Brand	52.3	i	53.38	23	264	3.7	39

LSD P=.05	18.452	2.092
Standard Deviation	11.337	1.493
CV	16.79	2.85
Grand Mean	67.511	52.384

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Georgetown
 Maturity Group 3.3-4.4
 Trial ID Soy GT Double Crop 1-19
 Irrigated No-till
 Plant 7/3/2019
 Harvest 10/28/2019

Variety	Company	Yield bu./A*		T.W.	Group	Rank x Yield GT DC 1
S42EN89	Dyna-Gro	60	a	55.4	4.2	1
S41XS98	Dyna-Gro	59.02	ab	55.6	4.1	2
ARMOR 42-D27	ARMOR SEED	58.33	abc	55.6	4.2	3
C3985RX	LG Seeds	58.32	abc	55.1	3.9	4
SH 4020 Enlist E3	Meherrin Ag.	57.34	a-d	54.5	4	5
S42-B9XS	Syngenta - NK Brand	57.24	a-d	55.5	4.2	6
C4227RX	LG Seeds	56.93	a-e	55.7	4.2	7
S44-C7X	Syngenta - NK Brand	56.73	a-e	55.3	4.4	8
SH 4019 LLGT27	Meherrin Ag.	56.36	a-e	55.3	4	9
CZ 3519 GTLL	BASF	56.16	a-f	56.1	3.5	10
S39XT68	Dyna-Gro	55.81	a-g	55.0	3.9	11
S43XS27	Dyna-Gro	55.28	a-h	55.8	4.3	12
LSX4201GLS	Local Seed	55.17	a-i	56.4	4.2	13
S37-A4X	Syngenta - NK Brand	54.65	a-j	55.4	3.7	14
ARMOR 44-D92	ARMOR SEED	54.59	a-j	55.7	4.4	15
SH 3814 LL	Meherrin Ag.	54.53	a-k	55.2	3.8	16
LS4487XS	Local Seed	54.07	a-k	55.6	4.4	18
S39-G2X	Syngenta - NK Brand	53.65	a-l	55.5	3.9	17
H43-27R2X	Hubner Seed	53.08	a-l	56.0	4.3	19
CZ 3929 GTLL	BASF	52.62	b-m	55.4	3.9	20
7410ET	UniSouth Genetics, Inc.	52.4	b-m	55.9	4.1	21

7429ET	UniSouth Genetics, Inc.	52.08	b-m	55.3	4.2	22
7440ETS	UniSouth Genetics, Inc.	52.05	b-m	56.0	4.4	23
SC8399X	Seed Consultants	51.78	c-m	55.3	3.9	24
CZ 3309 GTLL	BASF	50.89	d-m	55.8	3.3	25
7447XTS	UniSouth Genetics, Inc.	50.38	d-m	56.0	4.4	26
LGS3777RX	LG Seeds	50.12	e-m	55.6	3.7	27
SC8428X	Seed Consultants	49.22	f-m	55.0	4.2	28
LSX4301XS	Local Seed	48.96	g-m	55.8	4.2	29
S37EN39	Dyna-Gro	48.87	g-m	54.4	3.9	30
LSX3701GL	Local Seed	48.64	h-m	55.3	3.7	31
7399ET	UniSouth Genetics, Inc.	48.53	h-m	54.9	3.9	32
LS3787XS	Local Seed	48.19	i-m	55.3	3.7	33
S39EN19	Dyna-Gro	48.03	j-n	54.4	3.9	34
HS 44X80	Growmark FS	47.58	k-n	55.3	4.4	35
7370ET	UniSouth Genetics, Inc.	46.84	lmn	55.1	3.7	36
ARMOR X38D53	ARMOR SEED	46.03	mn	54.6	3.8	37
7390ET	UniSouth Genetics, Inc.	45.83	mn	52.6	3.9	38
H39-28R2X	Hubner Seed	41.11	n	54.6	3.9	39

LSD P=.05	6.998	1.288
Standard Deviation	4.996	0.919
CV	9.52	1.66
Grand Mean	52.498	55.297

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Georgetown
 Maturity 4.5-5.3
 Trial ID: Soy GT Full Season 2-19
 Irrigated Conv tillage
 Plant 5/10/2019
 Harvest 10/11/2019

Variety	Company	Yield bu./A*		T.W.	Height (in.)	Maturity (Julian)	Group	Rank x Yield GT FS 2
MS 5398	SeedKoz	79.44	a	56.13	36	279	5.3	1
SH 4820 Enlist E3	Meherrin Ag.	79.15	a	56.68	34	279	4.8	2
SH 5215 LL	Meherrin Ag.	78.78	ab	56.2	37	279	5.2	3
CZ 4869X	BASF	78.38	ab	56.65	31	272	4.8	4
MS 4846	SeedKoz	72.47	abc	56.3	29	279	4.8	5
LGS4899RX	LG Seeds	72.23	abc	55.95	29	277	4.8	6
7450ETS	UniSouth Genetics, Inc.	71.35	a-d	56.7	30	272	4.5	7
7460ET	UniSouth Genetics, Inc.	70.97	a-d	56.95	30	275	4.6	8
CZ 4649 LL	BASF	70.77	a-d	57.78	34	278	4.6	9
LS4565XS	Local Seed	69.83	a-d	56.85	34	275	4.5	10
7480XT	UniSouth Genetics, Inc.	67.02	a-e	56.43	30	280	4.8	11
SH 4817 LL	Meherrin Ag.	66.99	a-e	56.25	30	273	4.8	12
SH 4619 LLGT27	Meherrin Ag.	66.97	a-e	56.45	31	278	4.6	13
SH 4920 Enlist E3	Meherrin Ag.	66.89	a-e	55.85	33	278	4.9	14
HS 48X91	Growmark FS	66.62	a-e	56.35	29	279	4.8	15
MS 4616	SeedKoz	66.59	a-e	57.03	34	275	4.6	16
H46-29R2X	Hubner Seed	66.34	a-e	56.55	30	277	4.6	18
SC9469BR	Seed Consultants	66.09	a-e	56.85	28	271	4.5	17
S46XS60	Dyna-Gro	65.75	a-e	55.83	27	277	4.6	19
7479ET	UniSouth Genetics, Inc.	64.53	b-e	56.18	30	279	4.7	20
CZ 4979X	BASF	64.44	b-e	56.75	34	278	4.9	21
CZ 5299X	BASF	63.85	cde	56.33	34	279	5.2	22

7480ET	UniSouth Genetics, Inc.	63.7	c-f	56.4	31	277	4.8	23
7496XTS	UniSouth Genetics, Inc.	62.8	c-f	55.95	33	279	4.9	24
HS 46E92	Growmark FS	62.31	c-f	56.25	32	276	4.6	25
7478XTS	UniSouth Genetics, Inc.	62.22	c-f	56.48	28	274	4.7	26
SH 5120 Enlist E3	Meherrin Ag.	62.18	c-f	56.03	32	276	5.1	27
C4845RX	LG Seeds	61.03	c-f	56.35	28	279	4.8	28
S46XT80	Dyna-Gro	60.59	c-f	55.65	29	276	4.6	29
HS 47E90	Growmark FS	57.54	def	57	30	273	4.7	30
HS 47X90	Growmark FS	57.46	def	56.68	36	277	4.7	31
CZ 4539 GTLL	BASF	54.99	ef	56.18	31	280	4.5	32
S48XT56	Dyna-Gro	49.4	f	54.33	28	279	4.8	33

LSD P=.05	14.344	0.957
Standard Deviation	8.794	0.682
CV	13.25	1.21
Grand Mean	66.353	56.372

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Georgetown
 Maturity 4.5-5.3
 Irrigated No-till
 Trial name Soy GT Double Crop 2-19
 Plant 7/3/2019
 Harvest 10/28/2019

Variety	Company	Yield bu./A*		T.W.	Mat Group	Rank x Yield GT DC 2
CZ 4979X	BASF	61.2	a	56.1	4.9	1
S46XT80	Dyna-Gro	58.9	ab	55.1	4.6	2
HS 47X90	Growmark FS	58.2	abc	55.8	4.7	3
7479ET	UniSouth Genetics, Inc.	57.9	abc	55.9	4.7	4
H46-29R2X	Hubner Seed	57.8	abc	56.4	4.6	5
HS 47E90	Growmark FS	57.7	abc	56.0	4.7	6
SH 5120 Enlist E3	Meherrin Ag.	57.3	a-d	56.0	5.1	7
LS4565XS	Local Seed	56.8	a-e	55.9	4.5	8
CZ 4869X	BASF	56.7	a-e	56.0	4.8	9
SH 4920 Enlist E3	Meherrin Ag.	56.6	a-f	55.6	4.9	10
SH 5215 LL	Meherrin Ag.	56.5	a-g	55.6	5.2	11
SH 4817 LL	Meherrin Ag.	56.1	a-g	55.5	4.8	12
SH 4619 LLGT27	Meherrin Ag.	55.8	a-h	55.6	4.6	13
S46XS60	Dyna-Gro	55.6	a-h	55.3	4.6	14
7480XT	UniSouth Genetics, Inc.	54.7	a-h	56.3	4.8	15
HS 46E92	Growmark FS	54.5	a-i	55.4	4.6	16
SH 4820 Enlist E3	Meherrin Ag.	54.0	a-i	55.4	4.8	18
SC9469BR	Seed Consultants	53.9	a-i	56.2	4.5	17
CZ 5299X	BASF	53.7	a-i	56.2	5.2	19
7478XTS	UniSouth Genetics, Inc.	53.5	a-i	55.7	4.7	20

C4845RX	LG Seeds	52.9	b-i	55.7	4.8	21
MS 5398	SeedKoz	52.6	b-i	56.4	5.3	22
S48XT56	Dyna-Gro	52.4	b-i	55.9	4.8	23
7450ETS	UniSouth Genetics, Inc.	52.2	b-i	56.1	4.5	24
7460ET	UniSouth Genetics, Inc.	50.9	b-i	55.9	4.6	25
MS 4616	SeedKoz	50.5	c-i	55.8	4.6	26
MS 4846	SeedKoz	50.3	c-i	55.3	4.8	27
7480ET	UniSouth Genetics, Inc.	49.1	d-i	55.8	4.8	28
HS 48X91	Growmark FS	49.1	e-i	56.2	4.8	29
LGS4899RX	LG Seeds	48.4	f-i	55.5	4.8	30
CZ 4539 GTLL	BASF	48.3	ghi	55.3	4.5	31
7496XTS	UniSouth Genetics, Inc.	47.7	hi	56.3	4.9	32
CZ 4649 LL	BASF	46.4	i	57.1	4.6	33

LSD P=.05

8.252

0.747

Standard Deviation

5.88

0.532

CV

10.91

0.95

Grand Mean

53.877

55.842

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Kent County (Williamsville)
 Maturity 3.3-4.4
 Trial Name Soy Kent Full Season 1-19
 Irrigated No-till
 Previous crop Corn
 Plant 5/20/2019
 Harvest 11/4/2019

Variety	Company	Yield bu./A		T.W.	Mat. Group	Rank x Yield Kent FS 1
S44-C7X	Syngenta - NK Brand	93.32	a	54.3	4.4	1
LSX4301XS	Local Seed	90.9	ab	55.3	4.2	2
7440ETS	UniSouth Genetics, Inc.	90.8	ab	55.8	4.4	3
SH 4020 Enlist E3	Meherrin Ag.	90.57	ab	54.43	4	4
LS4487XS	Local Seed	90.29	ab	55	4.4	5
7429ET	UniSouth Genetics, Inc.	90.12	ab	54.87	4.2	6
S41XS98	Dyna-Gro	89.18	ab	55.5	4.1	7
S39-G2X	Syngenta - NK Brand	88.77	ab	54.37	3.9	8
SH 4019 LLGT27	Meherrin Ag.	88.63	ab	53.9	4	9
H43-27R2X	Hubner Seed	88.6	ab	55.23	4.3	10
ARMOR 44-D92	ARMOR SEED	88.4	ab	55.23	4.4	11
S42-B9XS	Syngenta - NK Brand	87.09	abc	54.97	4.2	12
SH 3814 LL	Meherrin Ag.	87	abc	54.87	3.8	13
7390ET	UniSouth Genetics, Inc.	86.06	a-d	54.23	3.9	14
HS 44X80	Growmark FS	86.03	a-d	54.8	4.4	15
7410ET	UniSouth Genetics, Inc.	85.92	a-d	54.67	4.1	16
7447XTS	UniSouth Genetics, Inc.	85.54	a-d	54.9	4.4	18
S43XS27	Dyna-Gro	85.01	a-e	54.9	4.3	17
7399ET	UniSouth Genetics, Inc.	84.5	a-e	53.57	3.9	19

C4227RX	LG Seeds	84.49	a-e	55.5	4.2	20
ARMOR 42-D27	ARMOR SEED	84.11	a-e	55.27	4.2	21
LS3787XS	Local Seed	83.49	a-f	54.5	3.7	22
LGS3777RX	LG Seeds	82.82	a-g	54.43	3.7	23
S37EN39	Dyna-Gro	82.81	a-g	53.53	3.9	24
S39EN19	Dyna-Gro	82.67	a-g	53.3	3.9	25
LSX3701GL	Local Seed	80.61	a-g	54.7	3.7	26
S42EN89	Dyna-Gro	80.33	a-g	54.83	4.2	27
CZ 3929 GTLL	BASF	80.08	a-g	53.97	3.9	28
SC8428X	Seed Consultants	79.9	a-g	55.43	4.2	29
S39XT68	Dyna-Gro	79.54	a-g	54.73	3.9	30
7370ET	UniSouth Genetics, Inc.	77.51	b-g	55.03	3.7	31
CZ 3309 GTLL	BASF	77.23	b-g	54.6	3.3	32
S37-A4X	Syngenta - NK Brand	77	b-g	55	3.7	33
ARMOR X38D53	ARMOR SEED	76.71	b-g	54.57	3.8	34
H39-28R2X	Hubner Seed	73.71	c-g	54.43	3.9	35
CZ 3519 GTLL	BASF	71.9	d-g	54.67	3.5	36
LSX4201GLS	Local Seed	70.97	efg	55.23	4.2	37
SC8399X	Seed Consultants	68.97	fg	54.77	3.9	38
C3985RX	LG Seeds	68.84	g	54.57	3.9	39

LSD P=.05	14.56	0.596
Standard Deviation	10.392	0.366
CV	12.51	0.67
Grand Mean	83.064	54.715

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Kent County (Williamsville)
 Maturity 4.5-5.3
 Trial ID Soy Kent Full Season 2-19
 Irrigated No-till
 Previous crop Corn
 Plant 5/20/2019
 Harvest 11/4/2019

Variety	Company	Yield bu./A		T.W.	Mat. Group	Rank x Yield Kent FS 2
MS 5398	SeedKoz	89.41	a	55.88	5.3	1
SH 4920 Enlist E3	Meherrin Ag.	88.71	ab	55.6	4.9	2
CZ 4869X	BASF	86.06	abc	55.2	4.8	3
SH 5215 LL	Meherrin Ag.	85.87	abc	55.43	5.2	4
SH 4817 LL	Meherrin Ag.	85.06	a-d	54.83	4.8	5
CZ 4979X	BASF	84.89	a-d	55.53	4.9	6
HS 47X90	Growmark FS	84.88	a-d	55.5	4.7	7
S46XT80	Dyna-Gro	84.42	a-d	54.9	4.6	8
7450ETS	UniSouth Genetics, Inc.	84.29	a-d	55.68	4.5	9
MS 4846	SeedKoz	83.88	a-d	55.35	4.8	10
7480ET	UniSouth Genetics, Inc.	83.2	a-d	55.45	4.8	11
HS 46E92	Growmark FS	82.83	a-d	55.08	4.6	12
HS 48X91	Growmark FS	82.65	a-d	55.7	4.8	13
7496XTS	UniSouth Genetics, Inc.	81.99	a-d	56.1	4.9	14
CZ 5299X	BASF	81.92	a-d	56.25	5.2	15
7460ET	UniSouth Genetics, Inc.	81.67	a-d	55.98	4.6	16
S48XT56	Dyna-Gro	81.47	a-d	55.3	4.8	18
MS 4616	SeedKoz	81.47	a-d	55.53	4.6	17
7480XT	UniSouth Genetics, Inc.	80.52	a-d	55.58	4.8	19

7478XTS	UniSouth Genetics, Inc.	79.56	a-d	55.25	4.7	20
S46XS60	Dyna-Gro	79.41	a-d	55.2	4.6	21
LGS4899RX	LG Seeds	79.05	a-d	55.35	4.8	22
SH 5120 Enlist E3	Meherrin Ag.	78.83	a-d	55.25	5.1	23
H46-29R2X	Hubner Seed	77.68	a-d	56.3	4.6	24
LS4565XS	Local Seed	77.08	a-d	55.25	4.5	25
7479ET	UniSouth Genetics, Inc.	76.06	bcd	54.8	4.7	26
SC9469BR	Seed Consultants	75.74	cd	55.6	4.5	27
SH 4820 Enlist E3	Meherrin Ag.	75.68	cd	55.23	4.8	28
CZ 4649 LL	BASF	75.63	cd	57.1	4.6	29
C4845RX	LG Seeds	75.45	cd	55.33	4.8	30
SH 4619 LLGT27	Meherrin Ag.	74.13	cd	54.85	4.6	31
HS 47E90	Growmark FS	73.76	cd	55.45	4.7	32
CZ 4539 GTLL	BASF	72.62	d	54.83	4.5	33

LSD P=.05	12.768	0.436
Standard Deviation	9.097	0.31
CV	11.26	0.56
Grand Mean	80.783	55.473

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Dagsboro
 Trial ID: Soy Dags Full Season 1-19
 Maturity 3.3-4.4
 Dryland Conv. Tillage
 Plant 6/4/2019
 Harvest 11/7/2019

Variety	Company	Yield bu./A*		T.W.	Mat. Group	Rank x Yield Dags FS 1
7410ET	UniSouth Genetics, Inc.	71.48	a	54	4.1	1
SH 4019 LLGT27	Meherrin Ag.	71.13	a	54.38	4	2
ARMOR 44-D92	ARMOR SEED	70.2	a	55.43	4.4	3
HS 44X80	Growmark FS	70.07	a	55.65	4.4	4
CZ 3929 GTLL	BASF	69.04	ab	54.74	3.9	5
S41XS98	Dyna-Gro	68.92	ab	55.3	4.1	6
SC8428X	Seed Consultants	67.78	ab	55.05	4.2	7
ARMOR 42-D27	ARMOR SEED	67.53	abc	55.18	4.2	8
LSX4301XS	Local Seed	67.36	a-d	55.44	4.2	9
7447XTS	UniSouth Genetics, Inc.	67.25	a-d	55.5	4.4	10
7440ETS	UniSouth Genetics, Inc.	65.91	a-e	55.78	4.4	11
7390ET	UniSouth Genetics, Inc.	65.4	a-e	54.45	3.9	12
7429ET	UniSouth Genetics, Inc.	65.11	a-e	55.1	4.2	13
S43XS27	Dyna-Gro	64.93	a-e	55.5	4.3	14
S44-C7X	Syngenta - NK Brand	64.3	a-e	54.7	4.4	15
S39EN19	Dyna-Gro	63.64	a-e	53.13	3.9	16
S42EN89	Dyna-Gro	63.03	a-f	55.35	4.2	18
S39-G2X	Syngenta - NK Brand	61.54	a-g	55.05	3.9	17
C3985RX	LG Seeds	61.15	a-h	54.65	3.9	19
SH 3814 LL	Meherrin Ag.	60.46	a-h	55.33	3.8	20

SH 4020 Enlist E3	Meherrin Ag.	60.2	a-h	54.5	4	21
LSX3701GL	Local Seed	58.8	a-i	54.83	3.7	22
S37-A4X	Syngenta - NK Brand	57.81	a-i	50.43	3.7	23
S42-B9XS	Syngenta - NK Brand	57.61	a-i	55.45	4.2	24
LS4487XS	Local Seed	56.7	a-i	55.53	4.4	25
S37EN39	Dyna-Gro	55.67	a-i	53.78	3.9	26
C4227RX	LG Seeds	55.46	a-i	55.65	4.2	27
LS3787XS	Local Seed	53.24	b-j	54.58	3.7	28
H43-27R2X	Hubner Seed	52.91	b-j	55.43	4.3	29
H39-28R2X	Hubner Seed	50.98	c-j	54.78	3.9	30
7370ET	UniSouth Genetics, Inc.	50.96	d-j	55.08	3.7	31
7399ET	UniSouth Genetics, Inc.	49.8	e-j	53.45	3.9	32
SC8399X	Seed Consultants	46.67	f-j	55.4	3.9	33
ARMOR X38D53	ARMOR SEED	45.53	g-j	50.43	3.8	34
CZ 3309 GTLL	BASF	45.46	g-j	53.63	3.3	35
LSX4201GLS	Local Seed	44.79	hij	56.38	4.2	36
S39XT68	Dyna-Gro	42.84	ij	54.88	3.9	37
LGS3777RX	LG Seeds	38.75	j	52	3.7	38
CZ 3519 GTLL	BASF	38.63	j	53.14	3.5	39

LSD P=.05	16.566	3.039
Standard Deviation	10.176	2.168
CV	17.34	3.97
Grand Mean	58.693	54.589

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Dagsboro
 Trial ID: Soy Dags Full Season 2-19
 Maturity 4.5-5.3
 Dryland Conv. Tillage
 Plant 6/4/2019
 Harvest 11/7/2019

Entry #	Variety	Company	Yield bu./A*		T.W.	Mat. Group	Rank x Yield Dags FS 2
444	HS 47X90	Growmark FS	57.8	a	55.6	4.7	1
457	HS 48X91	Growmark FS	56.31	ab	55.65	4.8	2
417	7480ET	UniSouth Genetics, Inc.	56.19	ab	55.2	4.8	3
419	7478XTS	UniSouth Genetics, Inc.	56.1	ab	55.48	4.7	4
447	SH 4920 Enlist E3	Meherrin Ag.	55.61	ab	55.28	4.9	5
503	CZ 5299X	BASF	55.51	ab	56.28	5.2	6
420	MS 4616	SeedKoz	55.47	ab	55.35	4.6	7
456	HS 47E90	Growmark FS	54.52	abc	55.48	4.7	8
435	CZ 4979X	BASF	54.43	abc	55.95	4.9	9
418	7450ETS	UniSouth Genetics, Inc.	54.22	abc	55.83	4.5	10
502	SH 5215 LL	Meherrin Ag.	53.66	a-d	55.48	5.2	11
434	CZ 4869X	BASF	53.55	a-d	55.4	4.8	12
407	H46-29R2X	Hubner Seed	53.19	a-d	55.55	4.6	13
402	C4845RX	LG Seeds	52.91	a-d	55.6	4.8	14
428	SH 4817 LL	Meherrin Ag.	52.65	a-d	55.15	4.8	15
423	SC9469BR	Seed Consultants	52.32	a-d	55.83	4.5	16
403	LGS4899RX	LG Seeds	52.24	a-d	55.53	4.8	18
421	MS 4846	SeedKoz	51.83	a-d	55.15	4.8	17
455	HS 46E92	Growmark FS	51.72	a-d	55.45	4.6	19
504	SH 5120 Enlist E3	Meherrin Ag.	50.61	a-d	55.55	5.1	20

454	7479ET	UniSouth Genetics, Inc.	50.48	a-d	55.5	4.7	21
413	7480XT	UniSouth Genetics, Inc.	50.44	a-d	55.73	4.8	22
430	S46XT80	Dyna-Gro	50.38	a-d	54.93	4.6	23
426	SH 4619 LLGT27	Meherrin Ag.	50.21	a-d	55.4	4.6	24
410	S48XT56	Dyna-Gro	49.6	a-d	55.6	4.8	25
453	CZ 4539 GTLL	BASF	49.45	a-d	55.2	4.5	26
424	CZ 4649 LL	BASF	49.26	bcd	56.88	4.6	27
425	SH 4820 Enlist E3	Meherrin Ag.	48.68	bcd	55.7	4.8	28
450	LS4565XS	Local Seed	48.44	bcd	55.9	4.5	29
501	MS 5398	SeedKoz	46.68	cd	56.15	5.3	30
411	7460ET	UniSouth Genetics, Inc.	46.65	cd	55.93	4.6	31
433	7496XTS	UniSouth Genetics, Inc.	45.63	d	55.73	4.9	32
429	S46XS60	Dyna-Gro	45.3	d	55.6	4.6	33

LSD P=.05	8.525	0.578
Standard Deviation	6.074	0.412
CV	11.71	0.74
Grand Mean	51.882	55.605

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Middletown
 Trial ID: Soy Mtown FS 1-19
 Maturity 3.3-4.4
 Cultural Practices Dryland No-till
 Previous Crop Corn
 Plant 5/22/2019
 Harvest 10/15/2019

Rank x Yield Mtown FS 1

Variety	Company	Yield bu./A*		T.W.	Mat. Group	
7399ET	UniSouth Genetics, Inc.	36.32	a	54.7	3.9	1
LS3787XS	Local Seed	34.2	ab	55.1	3.7	2
ARMOR 44-D92	ARMOR SEED	33.36	abc	56.2	4.4	3
S39EN19	Dyna-Gro	33.06	a-d	54.5	3.9	4
SH 3814 LL	Meherrin Ag.	32.31	a-d	55.9	3.8	5
LSX3701GL	Local Seed	32.27	a-d	55.9	3.7	6
ARMOR X38D53	ARMOR SEED	31.57	a-e	55.4	3.8	7
CZ 3309 GTLL	BASF	31.38	a-e	55.0	3.3	8
S37EN39	Dyna-Gro	31.29	a-f	55.6	3.9	9
SC8399X	Seed Consultants	31.04	a-g	56.0	3.9	10
C3985RX	LG Seeds	30.44	a-h	57.8	3.9	11
S41XS98	Dyna-Gro	30.27	a-h	59.2	4.1	12
H39-28R2X	Hubner Seed	29.72	a-h	54.8	3.9	13
S37-A4X	Syngenta - NK Brand	29.49	a-h	55.9	3.7	14
ARMOR 42-D27	ARMOR SEED	29.28	a-h	57.2	4.2	15
7390ET	UniSouth Genetics, Inc.	29.23	a-h	55.2	3.9	16
S44-C7X	Syngenta - NK Brand	29.04	a-h	55.3	4.4	17
S42-B9XS	Syngenta - NK Brand	29.02	a-h	56.4	4.2	18
7370ET	UniSouth Genetics, Inc.	28.96	a-h	55.6	3.7	19

C4227RX	LG Seeds	28.51	a-i	58.8	4.2	20
7410ET	UniSouth Genetics, Inc.	28.08	b-j	56.5	4.1	21
SC8428X	Seed Consultants	28.07	b-j	56.6	4.2	22
LGS3777RX	LG Seeds	27.72	b-j	48.9	3.7	23
S39-G2X	Syngenta - NK Brand	27.69	b-j	56.5	3.9	24
LSX4301XS	Local Seed	27.08	b-k	56.6	4.2	25
CZ 3929 GTLL	BASF	26.88	b-k	55.3	3.9	26
CZ 3519 GTLL	BASF	26.82	b-k	58.2	3.5	27
S39XT68	Dyna-Gro	26.77	b-k	56.3	3.9	28
SH 4019 LLGT27	Meherrin Ag.	26.47	b-k	56.7	4	29
S42EN89	Dyna-Gro	25.77	c-k	56.1	4.2	30
H43-27R2X	Hubner Seed	25.28	d-k	51.1	4.3	31
LS4487XS	Local Seed	24.18	e-k	57.0	4.4	32
HS 44X80	Growmark FS	23.99	e-k	57.4	4.4	33
SH 4020 Enlist E3	Meherrin Ag.	23.51	f-k	56.9	4	34
S43XS27	Dyna-Gro	23.4	g-k	57.1	4.3	35
7447XTS	UniSouth Genetics, Inc.	22.85	h-k	59.6	4.4	36
7440ETS	UniSouth Genetics, Inc.	20.73	ijk	58.3	4.4	37
7429ET	UniSouth Genetics, Inc.	20.52	jk	55.0	4.2	38
LSX4201GLS	Local Seed	19.62	k	57.6	4.2	39

LSD P=.05	7.81	3.965
Standard Deviation	4.803	2.831
CV	17.09	5.05
Grand Mean	28.108	56.098

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture

Location Middletown
 Trial ID: Soy Mtown FS 2-19
 Maturity 4.5-5.3
 Cultural Practices Dryland No-till
 Previous Crop Corn
 Plant 5/22/2019
 Harvest 10/15/2019

Variety	Company	Yield bu./A*		T.W.	Maturity Group	Rnak x Yield Mtown 2
H46-29R2X	Hubner Seed	36.35	a	56.1	4.6	1
SH 4817 LL	Meherrin Ag.	34.25	ab	55.4	4.8	2
7479ET	UniSouth Genetics, Inc.	32.55	abc	55.4	4.7	3
LGS4899RX	LG Seeds	31.95	a-d	56.2	4.8	4
C4845RX	LG Seeds	31.27	a-e	56.0	4.8	5
MS 4846	SeedKoz	31.04	a-e	55.6	4.8	6
CZ 4979X	BASF	29.69	b-f	56.8	4.9	7
7450ETS	UniSouth Genetics, Inc.	29.46	b-f	55.5	4.5	8
SH 5120 Enlist E3	Meherrin Ag.	29.43	b-f	56.0	5.1	9
7460ET	UniSouth Genetics, Inc.	29.42	b-f	56.2	4.6	10
S48XT56	Dyna-Gro	29.39	b-f	55.7	4.8	11
7480XT	UniSouth Genetics, Inc.	29.16	b-g	56.1	4.8	12
HS 47E90	Growmark FS	28.9	b-g	56.1	4.7	13
S46XS60	Dyna-Gro	28.85	b-g	55.7	4.6	14
MS 4616	SeedKoz	28.77	b-g	57.9	4.6	15
7496XTS	UniSouth Genetics, Inc.	28.18	b-g	56.6	4.9	16
SH 4820 Enlist E3	Meherrin Ag.	28.16	b-g	56.7	4.8	17
HS 47X90	Growmark FS	27.58	c-g	55.6	4.7	18
CZ 4649 LL	BASF	27.37	c-g	56.6	4.6	19

SH 4920 Enlist E3	Meherrin Ag.	27.24	c-g	55.9	4.9	20
LS4565XS	Local Seed	27.18	c-g	56.4	4.5	21
7478XTS	UniSouth Genetics, Inc.	26.96	c-g	56.5	4.7	22
HS 48X91	Growmark FS	26.85	c-g	56.1	4.8	23
S46XT80	Dyna-Gro	26.66	c-g	55.4	4.6	24
CZ 4869X	BASF	26.34	c-h	56.1	4.8	25
7480ET	UniSouth Genetics, Inc.	25.87	d-h	57.6	4.8	26
SC9469BR	Seed Consultants	25.81	d-h	55.8	4.5	27
CZ 5299X	BASF	25.75	d-h	57.4	5.2	28
HS 46E92	Growmark FS	25.6	e-h	55.6	4.6	29
SH 4619 LLGT27	Meherrin Ag.	25.22	e-h	54.2	4.6	30
SH 5215 LL	Meherrin Ag.	23.85	fgh	55.5	5.2	31
MS 5398	SeedKoz	22.89	gh	55.7	5.3	32
CZ 4539 GTLL	BASF	20.35	h	56.5	4.5	33

LSD P=.05	6.302	1.631
Standard Deviation	4.49	1.162
CV	15.96	2.07
Grand Mean	28.132	56.064

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

*Yield corrected to 13.8% moisture