TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Wharton
2020 Soybean
Performance Trial

TEXAS A&M AGRILIFE

Brand	Variety	GE Trait(s)	Maturity Group	Plant Height (in)	Lodging (%)	Shattering Score	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Mission	A4828X	Roundup Ready 2 Xtend Soybeans	4.8	35	0	0	12.4	49.3	53
University of Arkansas	R15-2422	Conventional	4.7	35	8	0	13.7	48.3	52
Credenz	CZ 5420	Roundup Ready 2 Xtend Soybeans	5.4	36	0	0	14.4	51.6	51
University of Missouri	S17-20780	Conventional	5.4	35	1	0	16.1	51.5	50
Dyna-Gro	S49EN79	Enlist E3 Soybeans	4.9	30	0	1	14.8	51.8	50
Dyna-Gro	S52XS39	Roundup Ready 2 Xtend Soybeans with STS	5.2	35	0	3	12.6	52.5	50
University of Missouri	S16-13165	Conventional	4.8	41	0	0	14.7	52.7	49
Credenz	CZ 5299	Roundup Ready 2 Xtend Soybeans	5.2	35	0	2	13.3	51.4	48
University of Missouri	S17-10809	Roundup Ready Soybeans	4.7	30	3	3	14.9	53.1	48
Mission	A4950X	Roundup Ready 2 Xtend Soybeans	4.9	36	0	1	12.2	51.0	48
Dyna-Gro	S48XT90	Roundup Ready 2 Xtend Soybeans	4.8	32	0	2	14.0	50.3	48
Credenz	CZ 4979	Roundup Ready 2 Xtend Soybeans	4.9	33	0	0	15.3	52.3	47
Credenz	CZ 5000	Roundup Ready 2 Xtend Soybeans	5.0	29	0	0	14.2	51.5	47
University of Missouri	S16-12805	Conventional	5.5	39	3	3	14.2	48.9	46
University of Arkansas	R13-14635RR	Roundup Ready Soybeans	5.4	34	0	0	15.1	52.2	46
Credenz	CZ 4730	Roundup Ready 2 Xtend Soybeans	4.7	31	0	0	14.1	51.0	45
University of Missouri	S17-2193	Conventional	4.8	35	0	0	14.7	50.5	45
Dyna-Gro	S49XT70	Roundup Ready 2 Xtend Soybeans	4.9	34	0	0	14.4	50.0	45
Credenz	CZ 5515	LibertyLink Soybeans	5.5	38	3	0	15.3	50.8	44
Credenz	CZ 4649	LibertyLink Soybeans	4.6	35	0	0	17.6	52.9	44
University of Missouri	S16-12774	Conventional	5.3	33	0	1	15.3	51.9	43

*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked variety. Shattering score is based on a 0-9 scale. 0 = no shattering, 9 = severe.

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University of Missouri	S17-6302		4.7	35	0	0	12.7	48.2	42
Credenz	CZ 4918	LibertyLink Soybeans	4.9	28	0	1	13.7	49.9	42
University of Missouri	S17-17195	Conventional	4.7	32	0	2	16.0	51.9	40
University of Missouri	S17-5044	Roundup Ready Soybeans	4.6	34	0	0	14.6	50.9	39
University of Missouri	S17-10339	Roundup Ready Soybeans	4.9	39	0	0	13.9	47.7	39
University of Missouri	S17-1828	Conventional	4.5	28	0	1	14.9	49.5	30

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Mean				34	1	1	14.4	50.9	46
C.V. %				5.0	532.6	114.9	10.7	4.0	10.0
P>f (hybrid)				0.000			0.001	0.006	0.000
L.S.D.				2.4			2.2	2.9	6.4

Agronomic information

Plant Date	3/27/2020
Harvest Date	8/17/2020
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	140,000
Precipitation (in)	31.5
Irrigation (in)	

Herbicide

3/29: sprayed 1 qt/ac Mad Dog + 2 oz/ac Valor. 5/12: sprayed 60 oz/ac Warrant Ultra + 16 oz/ac Select Max

Soil Type	Loam
Tillage	Conventional
Previous Crop	Soybeans

Trial Notes

*5/13: 1.1 lb/ac Boron applied with dry fertilizer
*5/29: Fungicide - 6 oz/ac Satori + 1 oz/ac Freeway
*5/30: Insecticide - 5 oz/ac Indigo + 4 oz/ac Liberate
*6/12: Insecticide - 5 oz/ac Indigo + 4 oz/ac Liberate

*7/8: Insecticide - 5 oz/ac Indigo + 4 oz/ac Liberate
*8/11: Burndown: 10 oz/ac Parazone 3SL + 1 oz/ac Freeway

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Howard Wittig

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at $p < 0.05$. Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using a SRES Advanced planter with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.

For additional information contact:
Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	22
P2O5 (lb/ac)	31
K2O (lb/ac)	62
S (lb/ac)	7
Zn (lb/ac)	1

Soil Analysis Report**

NO3-N (ppm)	15	pH	7.5
P (ppm)*	43	Conductivity (umho/cm)	182
K (ppm)*	208	Ca (ppm)*	3,604
S (ppm)*	7	Mg (ppm)*	253
		Na (ppm)*	13

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