

2019 Texas Barley Variety Trial Results



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2019

Texas Barley Variety Trials

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Texas A&M AgriLife Extension Service

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Introduction

At one point in time, barley was grown on nearly 600,000 acres in Texas (NASS, 2014), but acres steadily decreased to roughly 15,000 acres by the end of the century (1999 final year reported by NASS). As acres decreased in the state, so did active barley breeding and research. However, recent trials suggest that barley is still competitive with current wheat varieties for forage and grain production despite having no new varietal development in Texas in over a decade. The last variety released by Texas A&M AgriLife was ‘TAMbar 501’ in 2004 for forage and feed grain (Marshall et al., 2003). Recent interest by producers and consumer interest in locally grown ingredients has created a need for the continuation of barley research in Texas. According to FSA, Texas producers grew 31,600 acres of barley during the 2018-2019 season, all but a couple hundred acres of which were grown for forage or feed grain. However, niche markets are opening up in the distilling and local malting industries.

In 2013, evaluations of malt barley varieties in Texas began in order to determine the feasibility of barley production in the state for malting and distilling. This publication will provide information from the 2019 harvest year. Trials evaluated both spring and winter types, 2-row and 6-row types, and a mix of commercially available barley varieties along with breeding material from multiple public barley breeding programs at universities around the US. Screening new germplasm in Texas will potentially identify better adapted lines for varietal release that exceed performance of current varieties selected under different environments.

Interpreting the Data:

Yield and test weight at each location have been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, CV, and LSD values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

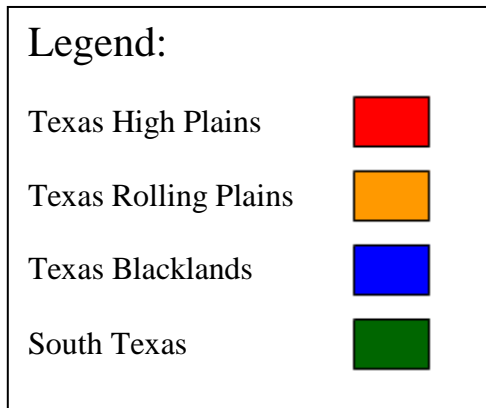
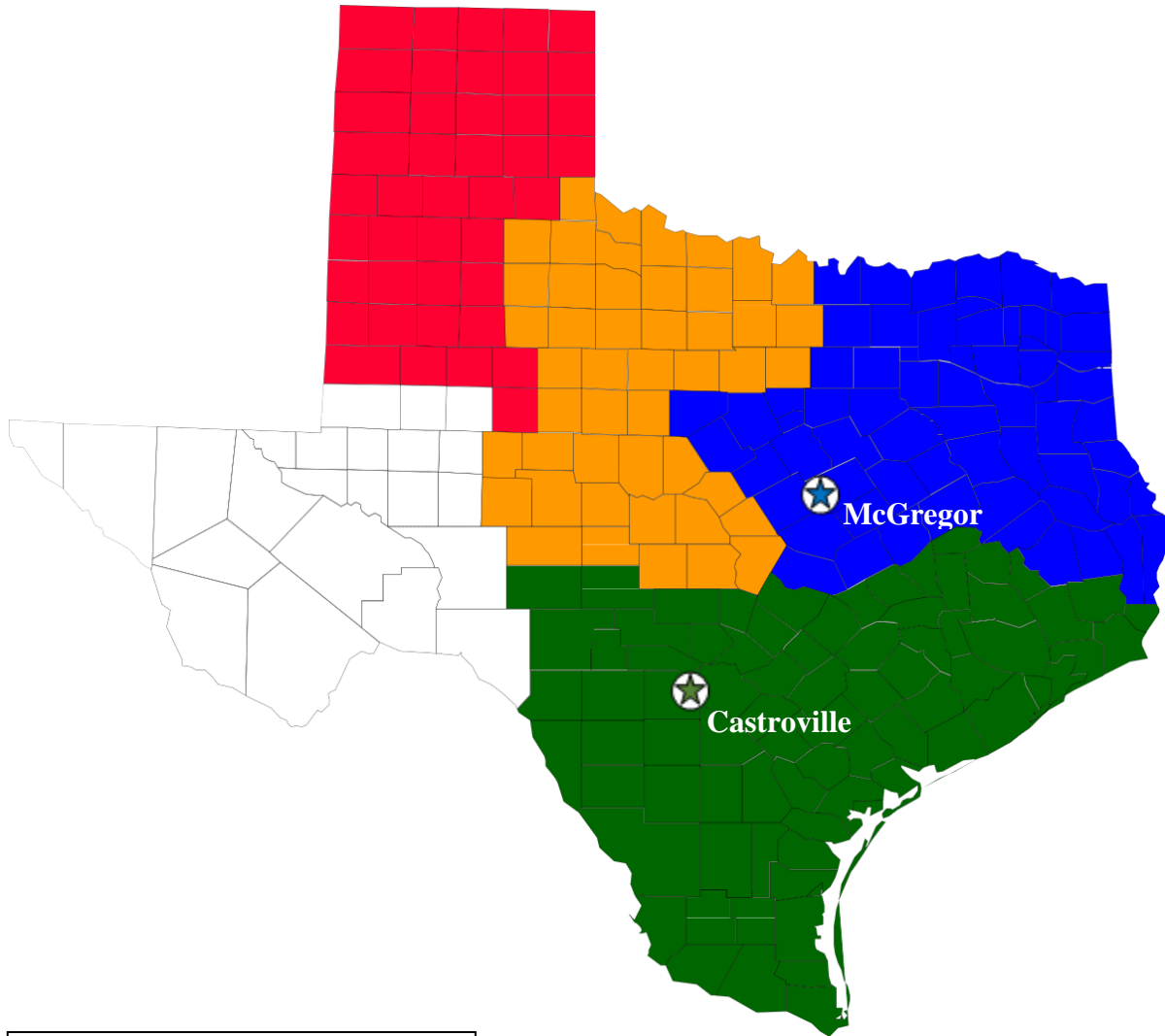
The mean is another term for the average. Therefore, a mean yield is the average of all plots within a trial. Individual variety yields can be compared to the mean yield to determine how these varieties performed within the trial (i.e. were they above or below average?). This average can also be used as an indication of the environment for that location. A low mean yield can indicate poor growing conditions were experienced in that season; likewise, a high yield average can indicate favorable growing conditions.

The CV (Coefficient of Variation) value, expressed as a percentage, indicates the level of unexplained variability present within the trial. A high CV value indicates a lot of variability existed within the trial not related to normal variations that might be expected between the varieties in the test. This variability may be the result of non-uniform stands, non-uniform insect or disease pressure, variability in harvesting, or other issues. CV values in excess of 15% signify that there were problems in the trial, leading the reader to question the validity of the data as a true representation of varietal performance.

The LSD (Least Significant Difference) value is a numeric range to help the reader determine if the varieties performed differently from one another within the trial. If the LSD value is 5 bu/ac in a trial in which Variety A yielded 36 bu/a and Variety B yielded 30 bu/a, then Variety

A is said to be significantly better. In that same trial with an LSD value of 5 bu/ac at a 0.05 (5%) significance level, the statistical inference one could say is that Variety A would yield better than Variety B in 19 out of 20 trials conducted in which there was at least a 5 bushel difference in yield. In this hypothetical comparison, you might have a 20th trial with a 5 bu/ac difference that there is not truly a statistical difference between Variety A and B, but random chance caused the 5 bushel difference.

Texas Small Grains Regional Map



2019 Texas Region Overview

Texas Blacklands: Fall conditions were very wet which delayed or prevented planting in many parts of the region. Slightly drier weather arrived in mid-January allowing for timely topdressing and herbicide application. A cold front in early March resulted in below freezing temperatures which may have caused minor damage to early maturing cultivars. Semi steady rains continued into May and June which delayed harvest of some fields.

South Texas: The 2018-2019 growing season was one of the most difficult in recent memory for most areas of South Texas. After a hot and dry summer, very wet weather began in mid-September which lasted until spring. Relentless rain in the fall delayed or prevented planting for most of the region. Despite the abundance of rain, rust levels were not as high as may have been expected. Powdery mildew was also present at some locations on susceptible varieties. Conditions improved slightly in time for harvest while temperatures remained mild throughout May and early June.

Texas Locations Agronomic Data: 2019

Location¹	Cooperator(s)	Yield Limiting Issues	Planting Date	Fertilizer (Total lb N/A)	Water*	Pesticide Applied (Date)
Castroville	Rollin Mangold	None	11/26/2018	60	IL	None
McGregor	Texas A&M AgriLife Research Farm	None	11/18/2018	60	D	Herbicide (Ally and Amber) 3/1/2019

¹All locations were conventionally tilled and planted on 7-inch row spacing. Standard seeding rate was 50 lb per acre.

*Irrigation: IL = Irrigated Limited, D = Dryland

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2019 Spring Barley Variety Trial: Blacklands & South Texas Regional Summary

Rank [†]	Variety	Developer	# Row	Yield (bu/a)			Test Wt (lb/bu)
				AVG	Castroville	McGregor	2018
1	06N6_66*	NDSU	6-Row	87.0	75.8	98.1	48.3
2	06N6_71*	NDSU	6-Row	86.0	74.1	97.9	49.1
3	LCS Odyssey	Limagrain	2-Row	79.1	57.8	100.3	47.2
4	09N2_21*	NDSU	2-Row	78.6	75.8	81.5	49.3
5	Pinnacle	NDSU	2-Row	78.3	62.2	94.5	48.0
6	08N6_91*	NDSU	6-Row	77.7	66.3	89.0	48.6
7	LCS Genie	Limagrain	2-Row	76.9	66.9	86.9	48.6
8	Scarlett	Saatzucht Breun	2-Row	76.2	63.8	88.6	48.5
9	08BA_54*	Anheuser-Busch	6-Row	75.5	63.0	88.0	48.7
10	06MT_67*	MSU	2-Row	74.4	73.6	75.2	50.8
11	06N2_70*	NDSU	2-Row	74.2	62.9	85.4	50.7
12	09BA_37*	Anheuser-Busch	6-Row	72.9	57.0	88.8	48.8
13	CDC Copeland	AAFC	2-Row	72.4	53.1	91.6	48.2
14	07BA_09*	Anheuser-Busch	6-Row	70.8	62.9	78.7	46.9
15	ND Genesis	NDSU	2-Row	69.1	60.3	77.8	49.2
16	Conlon	NDSU	2-Row	68.0	53.0	82.9	49.7
17	06BA_81*	Anheuser-Busch	6-Row	67.6	68.7	66.4	50.6
18	09MT_16*	MSU	2-Row	66.8	57.9	75.7	48.5
19	08BA_44*	Anheuser-Busch	6-Row	66.2	47.2	85.2	47.5
20	08WA_40*	WSU	2-Row	65.1	48.7	81.4	50.0
Mean				74.1	62.5	85.7	48.9
LSD (0.05)				11.8	11.6	17.5	1.7
CV (%)				13.9	11.2	12.3	3.0

*Experimental breeding line.

[†]Varieties ranked according to 2-location yield average.



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2018 Spring Barley Variety Trial: Castroville, TX

Rank[†]	Variety	Developer	# Row	Yield (bu/a)	Test Wt (lb/bu)
1	09N2_21*	NDSU	2-Row	75.8	51.6
2	06N6_66*	NDSU	6-Row	75.8	50.7
3	06N6_71*	NDSU	6-Row	74.1	51.2
4	06MT_67*	MSU	2-Row	73.6	53.0
5	06BA_81*	Anheuser-Busch	6-Row	68.7	53.1
6	LCS Genie	Limagrain	2-Row	66.9	53.3
7	08N6_91*	NDSU	6-Row	66.3	51.7
8	Scarlett	Saatzucht Breun	2-Row	63.8	52.3
9	08BA_54*	Anheuser-Busch	6-Row	63.0	51.7
10	06N2_70*	NDSU	2-Row	62.9	53.3
11	07BA_09*	Anheuser-Busch	6-Row	62.9	52.2
12	Pinnacle	NDSU	2-Row	62.2	50.7
13	ND Genesis	NDSU	2-Row	60.3	51.8
14	09MT_16*	MSU	2-Row	57.9	53.2
15	LCS Odyssey	Limagrain	2-Row	57.8	51.4
16	09BA_37*	Anheuser-Busch	6-Row	57.0	52.4
17	CDC Copeland	AAFC	2-Row	53.1	51.3
18	Conlon	NDSU	2-Row	53.0	52.9
19	08WA_40*	WSU	2-Row	48.7	52.2
20	08BA_44*	Anheuser-Busch	6-Row	47.2	50.3
Mean				62.5	52.0
LSD (0.05)				11.6	1.5
CV (%)				11.2	1.8

*Experimental breeding line.

[†]Varieties ranked according to 2019 yield.



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2019 Spring Barley Variety Trial: McGregor, TX

Rank [†]	Variety	Developer	# Row	Yield (bu/a)		Test Wt
				2-year [§]	2019	(lb/bu)
1	06N6_71*	NDSU	6-Row	95.1	97.9	47.0
2	LCS Odyssey	Limagrain	2-Row	93.2	100.3	43.0
3	06N6_66*	NDSU	6-Row	90.7	98.1	45.8
4	08BA_44*	Anheuser-Busch	6-Row	88.8	85.2	44.7
5	09N2_21*	NDSU	2-Row	87.0	81.5	46.9
6	Scarlett	Saatzucht Breun	2-Row	86.7	88.6	44.7
7	09BA_37*	Anheuser-Busch	6-Row	85.9	88.8	45.2
8	Pinnacle	NDSU	2-Row	85.8	94.5	45.2
9	08BA_54*	Anheuser-Busch	6-Row	85.7	88.0	45.8
10	08N6_91*	NDSU	6-Row	84.6	89.0	45.6
11	07BA_09*	Anheuser-Busch	6-Row	83.4	78.7	41.6
12	Conlon	NDSU	2-Row	82.2	82.9	46.5
13	08WA_40*	WSU	2-Row	81.4	81.4	47.7
14	06MT_67*	MSU	2-Row	80.4	75.2	48.7
15	06N2_70*	NDSU	2-Row	79.9	85.4	48.1
16	CDC Copeland	AAFC	2-Row	77.2	91.6	45.0
17	LCS Genie	Limagrain	2-Row	76.1	86.9	43.8
18	ND Genesis	NDSU	2-Row	76.0	77.8	46.6
19	09MT_16*	MSU	2-Row	75.5	75.7	43.9
20	06BA_81*	Anheuser-Busch	6-Row		66.4	48.0
Mean				84.0	85.7	45.7
LSD (0.05)				NS	17.5	2.4
CV (%)				14.6	12.3	3.2

*Experimental breeding line.

[†]Varieties ranked according to 2-year then 2019 yield.

[§]2-year average based on 2018 and 2019 data.



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2019 Winter Barley Variety Trial: Blacklands & South Texas Regional Summary

Rank [†]	Variety	Developer	# Row	Yield (bu/a)			Test Wt
				AVG	Castroville	McGregor	(lb/bu)
1	MW76_2*	OSU	6-Row	97.2	92.9	101.6	48.1
2	F5_23_1*	OSU	6-Row	89.7	86.4	93.0	47.6
3	F5_32_1*	OSU	6-Row	87.8	81.4	94.2	46.0
4	OR813*	OSU	6-Row	87.1	82.8	91.3	46.8
5	F5_5_1*	OSU	6-Row	85.5	77.5	93.5	45.5
6	PSU-5*	PSU	6-Row	85.0	87.7	82.3	47.1
7	MW118_4*	OSU	6-Row	83.9	67.4	100.4	46.1
8	MW116_3*	OSU	6-Row	82.6	81.2	84.0	47.6
9	MW122_1*	OSU	6-Row	82.5	81.2	83.7	46.9
10	MW118_3*	OSU	6-Row	82.1	74.7	89.5	47.2
11	F5_121_2*	OSU	6-Row	82.1	70.6	93.5	44.3
12	OR103*	OSU	6-Row	80.0	76.5	83.5	45.8
13	MW120_8*	OSU	6-Row	79.7	68.9	90.4	47.8
14	Short_16*	OSU	6-Row	79.1	74.8	83.3	47.3
15	F5_9_2*	OSU	6-Row	79.0	70.3	87.7	49.1
16	08OR_30*	OSU	6-Row	78.9	65.2	92.6	45.9
17	F5_47_3*	OSU	6-Row	78.8	74.8	82.8	45.7
18	OBA11_13*	OSU	6-Row	77.9	71.8	83.9	47.2
19	TAMbar 501	TAMU	6-Row	77.8	69.4	86.1	45.9
20	F5_88_3*	OSU	6-Row	76.3	54.4	98.1	40.9
21	Endeavor	USDA/UI	2-Row	75.7	72.2	79.2	48.7
22	MW118_1*	OSU	6-Row	75.4	53.8	97.1	42.5
23	07OR_6*	OSU	6-Row	73.6	60.6	86.5	45.7
24	PSU-2*	PSU	6-Row	72.9	68.9	77.0	45.9
25	LCS Calypso	Limagrain	2-Row	72.8	59.8	85.8	47.3
26	LCS Nerea	Limagrain	2-Row	72.1	65.3	79.0	49.6
27	08BA_54*	Anheuser-Busch	6-Row	71.9	59.8	84.0	48.4
28	Short_13*	OSU	6-Row	71.6	68.3	74.9	47.5
29	F5_135_4*	OSU	6-Row	71.2	53.5	88.8	41.3
30	F5_126_2*	OSU	6-Row	71.0	53.7	88.2	42.9
31	OR91*	OSU	6-Row	70.7	59.0	82.5	44.7
32	Flavia	Ackerman	2-Row	70.0	49.8	90.2	44.8
33	PSU-1*	PSU	6-Row	69.0	58.4	79.6	45.3
34	OR818*	OSU	6-Row	68.4	59.1	77.7	45.2
35	F5_113_2*	OSU	6-Row	67.7	44.4	91.1	40.2
36	MW80_1*	OSU	6-Row	67.3	59.4	75.2	46.4
37	07OR_4*	OSU	6-Row	64.7	41.8	87.5	44.0
38	Thoroughbred	VT	6-Row	64.5	66.2	62.7	45.7
39	F5_129_1*	OSU	6-Row	62.0	45.1	78.8	41.8
40	PSU-4*	PSU	6-Row	60.8	45.9	75.7	45.2
41	PSU-3*	PSU	6-Row	49.5	30.7	68.3	43.9
42	LCS Casanova	Limagrain	2-Row	49.4	33.3	65.4	47.0
Mean				74.9	64.7	85.0	45.8
LSD (0.05)				13.5	16.1	17.2	1.9
CV (%)				15.9	15.3	12.4	3.6

*Experimental breeding line.

[†]Varieties ranked according to 2-location yield average.



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2019 Winter Barley Variety Trial: Castroville, TX

Rank [†]	Variety	Developer	# Row	Yield (bu/a)	Test Wt (lb/bu)
1	MW76_2*	OSU	6-Row	92.9	49.8
2	PSU-5*	PSU	6-Row	87.7	48.9
3	F5_23_1*	OSU	6-Row	86.4	50.1
4	OR813*	OSU	6-Row	82.8	49.1
5	F5_32_1*	OSU	6-Row	81.4	47.3
6	MW116_3*	OSU	6-Row	81.2	49.6
7	MW122_1*	OSU	6-Row	81.2	49.2
8	F5_5_1*	OSU	6-Row	77.5	47.6
9	OR103*	OSU	6-Row	76.5	48.9
10	F5_47_3*	OSU	6-Row	74.8	48.9
11	Short_16*	OSU	6-Row	74.8	50.3
12	MW118_3*	OSU	6-Row	74.7	50.4
13	Endeavor	USDA/UI	2-Row	72.2	50.6
14	OBA11_13*	OSU	6-Row	71.8	49.2
15	F5_121_2*	OSU	6-Row	70.6	46.2
16	F5_9_2*	OSU	6-Row	70.3	49.5
17	TAMbar 501	TAMU	6-Row	69.4	47.3
18	MW120_8*	OSU	6-Row	68.9	50.0
19	PSU-2*	PSU	6-Row	68.9	48.7
20	Short_13*	OSU	6-Row	68.3	49.8
21	MW118_4*	OSU	6-Row	67.4	48.9
22	Thoroughbred	VT	6-Row	66.2	50.3
23	LCS Nerea	Limagrain	2-Row	65.3	50.3
24	08OR_30*	OSU	6-Row	65.2	49.2
25	07OR_6*	OSU	6-Row	60.6	47.7
26	08BA_54*	Anheuser-Busch	6-Row	59.8	50.8
27	LCS Calypso	Limagrain	2-Row	59.8	48.9
28	MW80_1*	OSU	6-Row	59.4	50.0
29	OR818*	OSU	6-Row	59.1	47.5
30	OR91*	OSU	6-Row	59.0	47.0
31	PSU-1*	PSU	6-Row	58.4	48.1
32	F5_88_3*	OSU	6-Row	54.4	42.0
33	MW118_1*	OSU	6-Row	53.8	43.2
34	F5_126_2*	OSU	6-Row	53.7	42.4
35	F5_135_4*	OSU	6-Row	53.5	41.3
36	Flavia	Ackerman	2-Row	49.8	46.7
37	PSU-4*	PSU	6-Row	45.9	46.1
38	F5_129_1*	OSU	6-Row	45.1	41.4
39	F5_113_2*	OSU	6-Row	44.4	40.5
40	07OR_4*	OSU	6-Row	41.8	47.1
41	LCS Casanova	Limagrain	2-Row	33.3	47.3
42	PSU-3*	PSU	6-Row	30.7	44.8
Mean				64.7	47.7
LSD (0.05)				16.1	1.9
CV (%)				15.3	2.4

*Experimental breeding line.

[†]Varieties ranked according to 2019 yield.



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2019 Winter Barley Variety Trial: McGregor, TX

Rank [†]	Variety	Developer	# Row	Yield (bu/a)		Test Wt (lb/bu)
				2-year [§]	2019	2019
1	MW76_2*	OSU	6-Row	114.8	101.6	46.4
2	MW118_1*	OSU	6-Row	108.0	97.1	41.8
3	F5_121_2*	OSU	6-Row	104.2	93.5	42.4
4	TAMbar 501	TAMU	6-Row	104.2	86.1	44.5
5	F5_32_1*	OSU	6-Row	102.9	94.2	44.6
6	F5_113_2*	OSU	6-Row	102.8	91.1	39.9
7	F5_23_1*	OSU	6-Row	101.0	93.0	45.2
8	MW118_4*	OSU	6-Row	100.9	100.4	43.4
9	07OR_4*	OSU	6-Row	100.3	87.5	40.9
10	LCS Calypso	Limagrain	2-Row	96.3	85.8	45.7
11	OBA11_13*	OSU	6-Row	96.1	83.9	45.2
12	07OR_6*	OSU	6-Row	95.2	86.5	43.6
13	Thoroughbred	VT	6-Row	94.8	62.7	41.2
14	MW116_3*	OSU	6-Row	93.2	84.0	45.7
15	Flavia	Ackerman	2-Row	92.9	90.2	42.9
16	F5_47_3*	OSU	6-Row	91.9	82.8	42.4
17	Endeavor	USDA/UI	2-Row	90.1	79.2	46.8
18	MW118_3*	OSU	6-Row	89.7	89.5	44.1
19	Short_16*	OSU	6-Row	89.1	83.3	44.3
20	Short_13*	OSU	6-Row	84.2	74.9	45.2
21	MW120_8*	OSU	6-Row	81.6	90.4	45.6
22	MW122_1*	OSU	6-Row	80.3	83.7	44.6
23	08BA_54*	Anheuser-Busch	6-Row	73.1	84.0	46.0
24	MW80_1*	OSU	6-Row	67.2	75.2	42.7
25	F5_88_3*	OSU	6-Row		98.1	39.8
26	F5_5_1*	OSU	6-Row		93.5	43.3
27	08OR_30*	OSU	6-Row		92.6	42.7
28	OR813*	OSU	6-Row		91.3	44.4
29	F5_135_4*	OSU	6-Row		88.8	41.2
30	F5_126_2*	OSU	6-Row		88.2	43.4
31	F5_9_2*	OSU	6-Row		87.7	48.7
32	OR103*	OSU	6-Row		83.5	42.7
33	OR91*	OSU	6-Row		82.5	42.5
34	PSU-5*	PSU	6-Row		82.3	45.2
35	PSU-1*	PSU	6-Row		79.6	42.5
36	LCS Nerea	Limagrain	2-Row		79.0	48.9
37	F5_129_1*	OSU	6-Row		78.8	42.2
38	OR818*	OSU	6-Row		77.7	42.9
39	PSU-2*	PSU	6-Row		77.0	43.2
40	PSU-4*	PSU	6-Row		75.7	44.2
41	PSU-3*	PSU	6-Row		68.3	42.9
42	LCS Casanova	Limagrain	2-Row		65.4	46.6
Mean				93.9	85.0	43.9
LSD (0.05)				14.3	17.2	2.2
CV (%)				13.3	12.4	3.1

*Experimental breeding line.

[†]Varieties ranked according to 2019 yield.

[§] 2-year average based on 2018 and 2019 data.

In-state Barley Variety Distributor List

Variety	Developer	Row #	Type	Distributor	Address	Phone Number
Baldwin	--	6-row	Winter	Warner Seed	P.O. Box 1877, Hereford, TX	(806) 364-4470
Hoody	--	6-row	Winter	Warner Seed	P.O. Box 1877, Hereford, TX	(806) 364-4470
PENNBar 66	PSU	6-row	Winter	Gaylon Ward Seed	US Hwy. 60, Hereford, TX	(806) 258-7394
Schuyler	--	6-row	Winter	Warner Seed	P.O. Box 1877, Hereford, TX	(806) 364-4470
TAMbar 500	TAMU	6-row	Winter	Gaylon Ward Seed	US Hwy. 60, Hereford, TX	(806) 258-7394
				Justin Seed	P.O. Box 6, Justin, TX	(940) 648-2751
				Turner Seed	211 CR 151, Breckenridge, TX	(800) 072-2861

Out-of-state Barley Variety Distributor List

Variety	Developer	Row #	Type	Distributor	Address	Phone Number
AC Metcalfe	SeCan	2-row	Spring	Northern Seed	205 9th Avenue South, Suite 205 Great Falls, MT	(406) 952-1000
Conlon	NDSU	2-row	Spring	Albert Lea Seed	1414 W Main St, Albert Lea, MN	(800) 352-5247
Full Pint	OSU	2-row	Spring	Territorial Seed	PO Box 158, Cottage Grove, OR	(800) 626-0866
Haybet	MSU	2-row	Spring	Byron Seed	775 N 350 E, Rockville, IN	(618) 599-8369
				Pulse USA	2002 Northern Plains Drive Bismarck, ND	(701) 530-0734
				Westland Seed	36272 Round Butte Rd. Ronan, MT	(800) 547-3335
Hockett	SeCan	2-row	Spring	Northern Seed	205 9th Avenue South, Suite 205 Great Falls, MT	(406) 952-1000
				Prairie Gold Farms	1285 6th Street East Dickinson, ND	(701) 260-4138
LCS Calypso	Limagrain	2-row	Spring	Albert Lea Seed	1414 W Main St, Albert Lea, MN	(800) 352-5247
				Schmidt Farms	1068 West North Union Rd Auburn, MI	(989) 529-8829
LCS Genie	Limagrain	2-row	Spring	Schmidt Farms	1068 West North Union Rd Auburn, MI	(989) 529-8829
LCS Odyssey	Limagrain	2-row	Spring	Schmidt Farms	1068 West North Union Rd Auburn, MI	(989) 529-8829
ND Genesis	NDSU	2-row	Spring	Albert Lea Seed	1414 W Main St Albert Lea, MN	(800) 352-5247
				Broten Farms	1635 106th Ave SE Dazey, ND	(701) 733-2257
				Buchholz Seed	4255 153rd Ave SE Durbin, ND	(701) 347-4058
				Herman Seed	5475 US-281 Minnewaukan, ND	(701) 466-2396
P-919	--	6-row	Winter	Byron Seed	775 N 350 E, Rockville, IN	(618) 599-8369
				Green Cover Seed	918 Road X, Bladen, NE	(402) 469-6784
				Johnston Seed	319 West Chestnut, Enid, OK	(800) 375-4613
				Simon Grain	7682 Gove County Rd. Z Quinter, KS	(785) 754-2151
Pinnacle	NDSU	2-row	Spring	Albert Lea Seed	1414 W Main St Albert Lea, MN	(800) 352-5247
				Herman Seed	5475 US-281 Minnewaukan, ND	(701) 466-2396
				Nettum Seeds	307 Main St. Caledonia, ND	(701) 430-1149

Out-of-state Barley Variety Distributor List CONTINUED

Variety	Developer	Row #	Type	Distributor	Address	Phone Number
TAMbar 501	TAMU	6-row	Winter	Simon Grain	7682 Gove County Rd. Z Quinter, KS	(785) 754-2151
Thoroughbred	VT	6-row	Winter	BFG Supply Co.	14500 Kinsman Rd., Burton, OH	(800) 883-0234
				Byron Seeds	775 N 350 E, Rockville, IN	(618) 599-8369
				DKG Seed Farms	5043 Coal Bank Rd., Orrville, OH	(330) 465-7079
				Renwood Farms Seed	17303 Sandy Point Rd Charles City, VA	(804) 798-5263
				Wimberly Farms	P.O. Box 187, Princess Anne, MD	(410) 651-2706

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