

UW-Extension, Buffalo & Chippewa Counties 2018 Spring Malting Barley Variety Results

Seventeen spring malting barley varieties were tested in Buffalo and Chippewa Counties in 2018. Thank you to University of Minnesota, North Dakota State University, Lima Grains and KWS for providing seed for the trial.

The main purpose of the trial is to determine if we can economically produce malting quality barley for the brewing industry. The primary factors measured are yield, protein and DON. DON was not an issue in 2017. Lodging has not been significant in any variety at either location. Additional quality data is available upon request.

Variety	Buffalo Yield (Bu)	DON	Chippewa Yield (Bu)	DON
Lacy	88.97*		44.25	
Pinnacle	100.89*		52.16	
Genesis	92.00*		57.97	
Odyssey	87.82*		60.21	
Genie	43.06		33.63	
Sienna	61.24		61.56*	
Opera	63.65		77.59*	
Tinka	78.99		57.82	
Fanfare	85.30		67.46*	
Amadora	75.82		57.39	
Robust	72.22		48.47	
Morex	86.21		57.3	
Kewaunee	98.52*		50.91	
Rassmusen	89.42*		53.90	
Full Pint	72.14		48.72	
Quest	93.32*		66.64*	
Conlon	95.44*		41.45	
Trial Median	72.22		52.16	
Trial Average	70.96		51.09	
LSD P=0.10	11.83		15.02	
Standard Deviation	9.94		12.613	
CV	12.20		22.85	

*Indicates no significant difference (90% confidence) between the highest yielding varieties in the trial.

Trial Details

Planting Date:

Buffalo Site: April 29, 2018
Chippewa Site: May 7, 2018

Plot Layout:

All plots were four feet by fifteen feet and included four replication in a randomized complete block design.

Fertility:

Phosphorus, Potassium, and Lime were supplied according to soil test data. Thirty pounds of Nitrogen was supplied at planting. Previous crop was soybeans.

Soil Type:

Buffalo Site: Seaton Silt Loam
Chippewa Site: Scott Lake Sandy Loam

Fungicides:

Approach @ 8 oz./acre @ Feekes 8
Prosaro @ 8 oz./acre @ heading

Herbicide:

Huskie @ 12 oz./acre

Harvested:

Buffalo Site: August 12, 2018
Chippewa: August 18, 2018

Growing Season Summary:

Buffalo Site: Hot and wet the last week in May, otherwise cool and wet the rest of the season.

Chippewa Site:

Cooperators:

Joe Bragger and Pat Rasmus, and Chippewa County

Variety	2 or 6 Row	2018		2017	
		Buffalo Yield (Bu)	Chippewa Yield (Bu)	Buffalo Yield (Bu)	Chippewa Yield (Bu)
Lacy	6	88.97*	44.25	90.30	72.03*
Pinnacle	2	100.89*	52.16	98.15	69.09*
Genesis	2	92.00*	57.97	93.95	70.92*
Odyssey	2	87.82*	60.21	136.13*	73.25*
Genie	2	43.06	33.63	--	71.87*
Sienna	2	61.24	61.56*	--	--
Opera	2	63.65	77.59*	--	--
Tinka	2	78.99	57.82	--	--
Fanfare	2	85.30	67.46*	--	--
Amadora	2	75.82	57.39	--	--
Robust	6	72.22	48.47	--	--
Morex	6	86.21	57.3	--	--
Kewaunee	6	98.52*	50.91	--	--
Rassmusen	6	89.42*	53.90	85.84	68.32*
Full Pint	2	72.14	48.72	103.87	71.27*
Quest	6	93.32*	66.64*	87.99	71.84*
Conlon	2	95.44*	41.45	--	--
Trial Median		72.22	52.16	91.68	71.56
Trial Average		70.96	51.09	97.72	71.07
LSD P=0.10		11.83	15.02	14.16	5.53
Standard Deviation		9.94	12.613	11.70	4.57
CV		12.20	22.85	12.08	6.42

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