

Michigan Malting Barley Variety Trial 2014  
 Upper Peninsula Research & Extension Center., Chatham, MI  
 Latitude: 46.35° N Longitude: 86.94° W

Variety	Moisture (%)	Test wt (lbs/bu)	Ht (in)	Bu/acre*	Heading date**	Type	Origin†
2B05-0811	15.8	47.9	25.0	92.1	193	2 row	Experimental
2B09-3425	15.6	48.2	23.4	89.5	193	2 row	Experimental
2ND25276	15.7	47.9	24.9	81.4	190	2 row	Experimental
ABI Voyager	16.5	47.6	25.3	83.9	201	2 row	BARI
AC Metcalfe	15.7	49.5	23.6	79.4	193	2 row	Can
Celebration	15.4	50.1	24.3	86.6	188	6 row	BARI
Conlon	15.8	51.1	23.0	76.2	186	2 row	ND
Conrad	15.9	50.0	22.8	87.1	199	2 row	BARI
Innovation	15.8	50.9	25.5	88.9	186	6 row	BARI
Lacey	15.9	51.9	22.6	87.1	188	6 row	MN
LCS Genie	17.2	49.7	20.8	83.3	199	2 row	LCS
Legacy	16.0	47.5	26.8	93.8	188	6 row	BARI
Merit	17.0	48.5	23.9	73.8	199	2 row	BARI
Merit 57	16.5	48.9	26.1	89.2	193	2 row	BARI
NSA 1820	16.5	51.1	20.5	91.0	201	2 row	LG
Odyssey	17.2	48.5	18.4	99.7	199	2 row	LG
Overture	17.0	49.0	20.3	85.3	201	2 row	LG
Pinnacle	16.8	48.5	24.2	91.2	188	2 row	ND
Quest	15.5	50.7	27.6	93.3	186	6 row	MN
Rasmusson	16.0	50.7	23.6	96.1	188	6 row	MN
Robust	16.0	50.6	24.1	74.7	188	6 row	MN
Stellar ND	15.5	48.1	24.6	82.6	186	6 row	ND
Tradition	15.4	50.4	25.3	89.2	186	6 row	BARI
Mean	16.1	49.4	23.8	86.8			
CV%	2.7	1.6	7.8	11.9			
LSD 5%	0.6	1.1	2.6	14.6			

Seeded: 5-10-14

Seeding rate: 96 lbs/ac

Fertility: 108 lbs/ac of 46-0-0

Previous crop: Soybeans (unable to harvest due to inclement weather)

Herbicide: 11 oz/ac Huskie

Fungicide: 8.2 oz/ac of Prosaro at Feekes stage 10.5

Soil type: Eben very cobbly sandy loam

Harvested: 9-3-2014

Design: RCB, plot size 3 x 20', (3 x 18' harvested)

\*Yield adjusted to 13.5% moisture

\*\*Julian calendar date of heading at approximately 50% of spikes

Origin† BARI- Busch Agricultural Resources, Inc.; MN- University of Minnesota; LG- Limagrain;

ND- North Dakota State University; LCS- Limagrain Cereal Seeds

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**Selected quality analysis results**

Variety	Protein	RVA	GE (%)	DON	S/T %	DP (°ASBC)	Alpha- amylase	Beta- glucan (ppm)	FAN (ppm)
2B05-0811	11.8	4.8	70.5	0.01	55.5	64	75.7	475	443
2B09-3425	12.3	4.8	79.5	0.01	55.4	80	82.1	190	483
2ND25276	11.6	8.7	88.5	0.08	45.5	71	67.0	281	264
ABI Voyager	12.3	4.3	60	0.00	61.5	66	63.4	146	439
AC Metcalfe	13.2	5.0	78	0.01	53.4	90	80.4	177	364
Celebration	13.7	29.2	91	0.01	40.1	127	73.9	208	261
Conlon	13.6	10.2	76.5	0.00	37.6	81	56.1	644	234
Conrad	13.5	4.8	78	0.10	50.1	87	70.5	240	354
Innovation	13.6	13.6	96.5	0.01	38.5	104	58.4	311	247
Lacey	12.5	82.2	96.5	0.00	37.0	112	57.2	216	187
LCS Genie	11.6	111.5	63	0.00	36.4	64	43.7	468	173
Legacy	12.7	4.3	80	0.01	51.5	87	64.7	186	344
Merit	12.1	6.9	85.5	0.00	49.0	77	72.2	433	315
Merit 57	11.9	7.8	87.5	0.02	50.3	75	71.6	300	319
NSA 1820	12.3	77.3	54	0.02	35.2	70	38.3	598	207
Odyssey	12.0	95.9	65	0.01	33.7	50	28.7	765	181
Overture	12.2	71.9	67	0.02	38.8	65	40.2	562	224
Pinnacle	10.8	13.2	70.5	0.01	43.4	63	31.2	547	214
Quest	12.2	70.2	69.5	0.00	40.5	113	42.7	510	221
Rasmusson	13.1	127.1	91.5	0.01	37.8	114	67.8	382	229
Robust	13.5	91.5	75	0.01	35.2	95	52.2	577	207
Stellar ND	12.1	4.3	92.5	0.00	41.8	106	71.3	240	244
Tradition	12.9	60.0	75	0.02	35.0	126	64.4	547	197

Michigan Malting Barley Variety Trial 2014

Cooperator: Julian Pilarski., Posen, MI

Latitude: 45.26° N Longitude: 83.69° W

Variety	Moisture (%)	Test wt (lbs/bu)	Ht (in)	Bu/acre*	Heading date**	Type	Origin†
2B05-0811	15.5	51.4	20.5	88.2	197	2 row	Experimental
2B09-3425	15.2	50.7	17.5	88.7	193	2 row	Experimental
2ND25276	15.5	51.9	20.9	91.6	182	2 row	Experimental
ABI Voyager	15.6	51.9	19.6	82.9	189	2 row	BARI
AC Metcalfe	15.4	52.2	20.3	83.9	182	2 row	Can
Celebration	15.1	50.8	20.0	66.8	179	6 row	BARI
Conlon	15.0	52.7	20.6	70.0	178	2 row	ND
Conrad	15.2	52.2	22.0	83.5	197	2 row	BARI
Innovation	15.1	51.0	22.1	75.0	178	6 row	BARI
Lacey	15.1	51.5	22.4	76.7	180	6 row	MN
LCS Genie	15.0	52.9	18.0	85.7	197	2 row	LCS
Legacy	14.9	50.8	21.8	73.8	181	6 row	BARI
Merit	15.6	51.6	20.2	90.5	197	2 row	BARI
Merit 57	15.4	51.7	19.2	84.3	186	2 row	BARI
NSA 1820	15.3	52.5	19.0	78.5	195	2 row	LG
Odyssey	15.3	51.7	19.5	93.5	197	2 row	LG
Overture	14.9	52.6	18.0	90.9	197	2 row	LG
Pinnacle	15.4	51.1	19.1	77.1	182	2 row	ND
Quest	15.0	50.8	21.8	81.4	180	6 row	MN
Rasmusson	15.2	51.6	20.4	83.1	180	6 row	MN
Robust	15.1	50.9	24.3	69.7	181	6 row	MN
Stellar ND	15.0	49.3	19.1	76.2	181	6 row	ND
Tradition	15.0	50.7	22.4	73.5	178	6 row	BARI
Mean	15	51.4	20.3	81.1			
CV%	10.5	1.1	13.7	12.4			
LSD 5%	2.2	0.8	3.9	14.2			

Seeded: 5/7/2014

Seeding rate: 96 lbs/ac

Fertility: 108 lbs/ac of 46-0-0

Previous crop: Soybeans

Herbicide: 11 oz/ac Huskie

Fungicide: 8.2 oz/ac of Prosaro at Feekes stage 10.5

Harvest Date: 8/28/2014

Soil type: Omena fine sandy loam

\*Yield adjusted to 13.5% moisture

\*\*Julian calendar date of heading at approximately 50% of spikes

Origin† BARI- Busch Agricultural Resources, Inc.; MN- University of Minnesota; LG- Limagrain;

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Cooperator: Julian Pilarski., Posen, MI

**Selected quality analysis results**

Variety	Protein	RVA	GE (%)	DON	S/T %	DP (°ASBC)	Alpha- amylase	Beta- glucan (ppm)	FAN (ppm)
2B05-0811	10.7	8.3	89	0.00	48.3	107	82.2	387	287
2B09-3425	11.0	7.4	75	0.01	47.0	124	84.6	136	302
2ND25276	10.5	17.7	96	0.04	42.3	115	76.2	246	223
ABI Voyager	11.3	8.7	81	0.00	51.0	129	80.8	142	315
AC Metcalfe	11.4	7.3	76	0.02	43.7	128	90.4	118	287
Celebration	12.3	81.2	100	0.11	44.0	165	73.3	257	271
Conlon	11.4	92.8	98	0.00	40.1	113	67.8	639	209
Conrad	11.7	7.1	90	0.00	49.4	135	85.9	155	323
Innovation	12.4	85.2	97	0.01	43.0	167	60.9	418	253
Lacey	12.4	102.1	100	0.00	40.7	158	60.6	368	233
LCS Genie	10.4	149.0	97	0.01	39.6	109	51.0	101	194
Legacy	12.2	13.2	96	0.00	47.7	147	73.8	376	289
Merit	10.0	8.0	91	0.00	48.5	103	97.0	163	249
Merit 57	10.8	6.6	87	0.01	49.9	88	103.8	161	273
NSA 1820	10.6	106.1	97	0.01	36.9	88	62.0	83	173
Odyssey	10.1	151.9	99	0.00	38.6	71	54.9	109	167
Overture	10.5	86.2	98	0.01	40.6	74	66.2	163	194
Pinnacle	10.2	116.1	91	0.00	41.7	70	58.1	515	191
Quest	12.4	153.3	98	0.00	43.9	139	67.3	540	234
Rasmusson	12.7	158.8	99	0.00	43.4	142	66.0	341	244
Robust	12.5	62.3	99	0.00	40.8	143	55.2	343	232
Stellar ND	11.9	27.2	96	0.00	42.6	154	64.5	209	229
Tradition	12.6	104.1	96	0.00	41.0	174	66.2	316	223