

WINTER MALTING BARLEY TRIAL – 2023 RESULTS

Variety	HC Yield (bu/A)	HC Head Date	EL Yield (bu/A)	EL Density (lb/bu)
13ARS503-1	104.4	5/12	121.0	47.5
13ARS514-5	46.6	5/22	113.5	43.7
13ARS526-8	74.7	5/20	103.8	45.6
2MW18_3374-001	96.5	5/15	100.6	46.8
2MW18_3374-036	87.0	5/15	115.9	46.5
2MW18_4462-011	76.3	5/17	121.2	44.7
2MW19_3013-004	108.5	5/15	89.3	45.8
Avalon	102.6	5/15	71.6	NA
Caroussel*	87.0	5/17	122.1	46.6
Charles	76.9	5/16	79.0	42.5
Constel*	89.1	5/15	111.0	45.5
Dementiel*	94.7	5/17	138.9	45.8
DH02FL-028	86.3	5/20	97.9	44.9
DH141917	82.3	5/20	116.6	45.6
DH150683	90.6	5/16	128.0	44.7
DH162310	88.4	5/15	100.6	45.2
DH170472	76.0	5/20	NA	NA
Flavia	100.1	5/16	143.9	46.9
Hirondella*	98.0	5/20	132.4	45.6
KWS Orbit	92.1	5/19	157.5	45.9
LCS Calypso	85.0	5/18	87.0	46.6
LCS Violetta	75.3	5/17	115.9	46.3
Marouetta*	109.4	5/15	84.9	45.5
MN Equinox*	79.1	5/13	104.2	46.0
NB21214	64.1	5/16	106.0	NA
OM140088	92.5	5/19	132.4	44.8
OM21010	87.5	5/20	130.8	43.1
OM21115	97.1	5/20	125.6	47.8
OM21515	68.8	5/20	106.4	45.8
OM21969	95.7	5/12	110.9	47.6
OML	89.4	5/18	108.3	48.0
OMR	68.8	5/20	107.8	45.9
OMZ	80.3	5/20	113.5	47.6
Pixel*	89.5	5/16	120.5	45.0
Puffin	78.8	5/18	117.5	48.3
RIL0257-01-011	85.3	5/18	92.2	48.1
RIL02FL-029	76.0	5/20	113.4	47.4
RIL523-PFFN-033	59.1	5/19	97.9	47.7
SB151	104.1	5/15	12.3	NA
Secretariat*	136.3	5/12	113.5	47.2
Teepee	69.4	5/20	110.3	47.3
VA17M-13DH1720 LX*	65.9	5/16	110.8	44.8
VA19M-16DH2261	87.5	5/15	100.9	45.7
VA20MFHB-18DH541	73.4	5/16	134.7	46.6
VT Beahm**	94.6	5/13	7.1	NA
Wintmalt	77.5	5/20	123.5	46.0
GRAND MEAN	85.8	5/17	107.8	46.1
STDEV	15.3	2.5	27.3	1.3

SITE DETAILS

HC = Hickory Corners, MI

EL = East Lansing, MI

Planting date: HC-10/03/22.
EL-10/20/22

Fertility: HC-30 lbs N/A, 30 lbs P/A, 10 lbs S/A Fall Applied. 90 lbs N/A, 12 lbs S/A Spring Applied.

EL-90 lbs N/A Spring Applied.

Herbicide: 13.5 oz/A Huskie

Fungicide: 13.7 oz/A Miravis Ace

Harvest: HC-6/29/23. EL-7/19/23

Growing season conditions: A relatively wet April and early May led to high yield potential, but was followed by drought conditions through grain fill resulting in high protein and small kernels at HC. Heading dates were only measured at HC. Grain density measurements were influenced by awns attached to grain.

*Six-row varieties

**Awnless six-row varieties, both had substantial wildlife damage

~Hulless varieties

#Test Weights were recorded after cleaning grain for quality analysis



WINTER MALTING BARLEY TRIAL – HC 2023 QUALITY

Variety	% Protein	Plump (6/64)	Thin	GE 4 ml	GE 8 ml	GC	RVU	DON (ppm)
13ARS503-1	12.9	34.8	15.7	100	100	99	132	NA
13ARS514-5	16.4	22.1	25.1	99	93	97	19	NA
13ARS526-8	14.5	24.2	35.3	100	96	98	77	NA
2MW18_3374-001	13.3	91.6	0.7	100	100	99	161	NA
2MW18_3374-036	14.7	89.2	0.7	100	99	100	145	NA
2MW18_4462-011	13.7	29.6	18.1	100	99	100	64	NA
2MW19_3013-004	12.9	67.0	5.1	100	100	100	176	NA
Avalon	14.4	44.5	10.6	100	100	100	172	NA
Caroussel*	13.4	58.8	4.3	100	99	100	140	NA
Charles	14.6	46.8	12.9	100	100	99	43	NA
Constel*	13.7	23.2	20.1	99	99	100	120	NA
Dementiel*	12.1	30.4	21.9	98	98	100	124	NA
DH02FL-028	13.9	55.2	5.2	100	100	100	148	NA
DH141917	13.5	67.5	4.6	99	100	100	155	NA
DH150683	14.3	30.5	7.5	100	100	98	119	NA
DH162310	15.2	51.8	8.6	100	99	99	112	NA
DH170472	15.4	28.6	23.5	93	91	99	126	NA
Flavia	13.4	65.4	4.8	96	98	100	165	NA
Hirondella*	13.7	62.3	3.3	98	100	99	132	NA
KWS Orbit	12.3	42.8	8.1	95	95	100	158	NA
LCS Calypso	12.8	66.6	5.0	98	99	95	165	NA
LCS Violetta	14.6	41.6	11.8	94	95	99	159	NA
Marouetta*	13.0	52.8	3.8	99	99	96	141	NA
MN Equinox*	14.4	34.1	13.7	100	100	100	166	NA
NB21214	15.2	60.8	9.4	97	98	100	160	NA
OM140088	14.7	52.9	7.3	98	97	93	58	NA
OM21010	13.9	48.7	6.1	100	100	100	152	NA
OM21115	13.5	42.1	13.4	99	99	99	192	NA
OM21515	16.9	14.3	31.4	100	99	100	159	NA
OM21969	15.0	30.0	12.9	100	100	98	172	NA
OML	14.2	41.9	5.9	100	100	100	164	NA
OMR	13.9	42.7	13.3	100	99	99	149	NA
OMZ	15.4	24.1	17.0	100	100	100	165	NA
Pixel*	13.2	34.7	11.0	99	100	100	146	NA
Puffin	14.9	42.9	7.6	100	100	97	182	NA
RIL0257-01-011	13.9	39.6	16.7	100	99	98	92	NA
RIL02FL-029	14.6	32.3	13.6	93	99	100	161	NA
RIL523-PFFN-033	14.5	36.9	15.2	99	98	99	160	NA
SB151	12.7	35.5	9.1	100	100	97	195	NA
Secretariat*	12.7	52.4	7.9	100	99	100	191	NA
Teepee	14.2	30.2	12.4	100	100	100	147	NA
VA17M-13DH1720 LX*	13.2	16.4	27.2	100	100	100	121	NA
VA19M-16DH2261	14.6	68.8	3.4	99	100	100	168	NA
VA20MFHB-18DH541	13.4	50.6	5.2	94	97	100	161	NA
VT Beahm**	13.7	20.3	27.5	89	89	98	170	NA
Wintmalt	14.9	33.8	13.5	100	100	100	155	NA

HC GRAIN QUALITY

Grain quality is the most important characteristic for malting barley.

If the barley doesn't meet quality specifications, it may be rejected by the malthouse. Conversely, premiums may be offered for barley that meets or exceeds quality standards.

Ideal values for the quality data shown on this page are shown below.

- GC >95%
- Plump >90%
- CP <12.5%
- DON <1.0 ppm
- RVU >120

Grain quality from the Hickory Corners site was analyzed six months after harvest, and 8 months after harvest for East Lansing. Dry conditions during grain fill in Hickory Corners resulted in high protein levels and small kernels. DON was not measured in 2023 due to low levels across all varieties.



WINTER MALTING BARLEY TRIAL – EL 2023 QUALITY

Variety	% Protein	Plump (6/64)	Thin	GE 4 ml	GE 8 ml	GC	RVU	DON (ppm)
Avalon	12.0	94.2	1.0	98	88	97	104	NA
Charles	11.4	94.7	1.0	57	26	77	7	NA
Flavia	11.6	96	0.7	96	57	97	90	NA
Hirondella*	10.5	97.5	0.2	99	82	98	138	NA
LCS Calypso	11.5	95.6	0.4	95	84	96	125	NA
LCS Violetta	11.0	95.6	0.5	95	78	96	114	NA
Marouetta*	10.9	97.3	0.4	97	73	96	116	NA
Wintmalt	10.7	95.7	0.9	90	79	92	74	NA

EL GRAIN QUALITY

Grain quality is the most important characteristic for malting barley.

If the barley doesn't meet quality specifications, it may be rejected by the malthouse. Conversely, premiums may be offered for barley that meets or exceeds quality standards.

Ideal values for the quality data shown on this page are shown below.

- GC >95%
- Plump >90%
- CP <12.5%
- DON <1.0 ppm
- RVU >120

Grain quality from the Hickory Corners site was analyzed six months after harvest, and 8 months after harvest for East Lansing. Dry conditions during grain fill in Hickory Corners resulted in high protein levels and small kernels. DON was not measured in 2023 due to low levels across all varieties.

