

WINTER MALTING BARLEY TRIAL

2025 HICKORY CORNERS RESULTS

Variety	Yield (bu/A)	Test Weight (lb/bu)	Protein (%)
20211573~	85.7	60.9	12.7
15ARS607-1	132.8	47.8	11.3
16/449/71*	160.5	50.9	9.6
16ARS622-248	119.8	46.3	10.7
16ARS627-037	112.8	50.5	11.0
16ARS634-2	101.1	43.7	11.4
2MW19_3013-004	146.3	55.3	10.7
2MW19_3346-014	141.6	51.5	10.4
Avalon	119.0	54.4	11.4
DH141947	141.2	49.3	10.9
DH171854	88.5	52.4	11.7
DH190077	161.0	51.8	10.6
DH200620	162.9	54.3	10.4
Flavia	141.2	52.5	9.5
GHRIL0201-088	85.4	49.1	12.9
GHRIL02OPL-190	146.6	50.8	11.0
GHRIL02SCL-010	141.4	51.9	9.8
Hirondella*	148.9	48.8	10.0
KWS Orbit*	170.2	52.2	9.3
KWS Delis*	168.5	53.1	10.0
KWS Donau	139.0	51.7	10.2
LCS Calypso	147.5	54	11.3
LCS Violetta	137.2	52.7	10.5
Marouetta*	163.6	51.8	9.3
NB22259	69.0	53	11.9
NB22260	118.1	51.8	11.7
NYBS811-31	126.9		12.2
NYBS811-33	146.7	52.7	9.8
NYBS811-34	157.7	53.6	9.9
NYBS811-43	135.4	50.9	10.5
RILO257-01-011	99.0	48.6	11.3
Secretariat*	90.4	52.9	11.2
TM17.167-008	111.0	50.4	11.5
TM18.236-016	132.7	50.8	11.4
VA22M-158	150.8	54	10.3
VA22M-160	99.3	53.5	12.4
VA22M-30	139.5	55.1	10.8
VT Beahm**	112.6	48.7	12.5
Wintmalt	139.2	48.8	11.3
Grand Mean	130.5	51.6	10.9
STDEV	26.0	2.9	0.9

SITE DETAILS

HC = Hickory Corners, MI

GA = Garden, MI

Planting date: HC- 10/04/24
GA – 9/19/24 (winter killed)

Fertility: HC-18 lbs N/A, 46 lbs P/A, 60 lbs K/A Fall Applied. 108 lbs N/A, 20 lbs S/A, 0.13 lb B/A Spring Applied.

Herbicide: 13.5 oz/A Huskie on 11/7/24

Fungicide: 13.7 oz/A Miravis Ace on 5/19/25

Harvest: HC-7/1/25

Growing season conditions:

Winter was colder than previous years, resulting in winter-kill of all varieties at the Garden location. Spring at HC was mild, but was followed by a warm June that accelerated the grain fill period and maturity.

*Six-row varieties

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

~Hulless varieties

#Test Weights were recorded after cleaning grain for quality analysis

Varieties were sourced from the Winter Malting Barley Trial (WMBT), Virginia Crop Improvement Association, & local seed retailers.

Funding for the trial was provided by the American Malting Barley Association, Bells Brewery, Michigan Brewers Guild, Michigan Crop Improvement Association, & Michigan Craft Beverage Council.

WINTER MALTING BARLEY TRIAL 2025 HICKORY CORNERS GRAIN QUALITY

GRAIN QUALITY

Variety	Plump (%)	Thin (%)	GE (%) 4 ml	GE (%) 8 ml	GC (%)	SN	DON (ppm)
20211573~	90.3	0.7	99	99	99	TBD	TBD
15ARS607-1	89.5	1.1	92	72	94		
16/449/71*	94.4	0.2	96.5	72.5	98		
16ARS622-248	72.1	4.1	97.5	87.5	94		
16ARS627-037	85.6	1.1	88.5	76.5	95		
16ARS634-2	86.4	2.0	86.5	67.5	94		
2MW19_3013-004	95.5	0.6	97.5	93	89		
2MW19_3346-014	97.8	0.1	96.5	85	96		
Avalon	98.3	0.2	100	91	99		
DH141947	94.1	0.6	97	81.5	94		
DH171854	89.6	0.8	95	66.5	97		
DH190077	98.0	0.2	98	93.5	97		
DH200620	97.0	0.4	96.5	75.5	96		
Flavia	95.1	0.4	98	61.5	95		
GHRIL0201-088	79.9	6.4	94.5	91.5	94		
GHRIL02OPL-190	91.6	0.7	98.5	97	96		
GHRIL02SCL-010	97.3	0.3	95	80.5	95		
Hirondella*	81.0	1.6	100	94	92		
KWS Orbit*	93.6	0.9	95.5	58.5	94		
KWS Delis*	92.5	0.5	99.5	69	92		
KWS Donau	98.6	0.2	97	85.5	96		
LCS Calypso	95.7	0.2	98	65	96		
LCS Violetta	95.8	0.4	93.5	67	98		
Marouetta*	96.7	0.1	98.5	89	98		
NB22259	95.7	0.6	96.5	71.5	97		
NB22260	96.1	0.6	93.5	88.5	99		
NYBS811-31	93.6	1.3	88.5	57	90		
NYBS811-33	95.3	0.3	97.5	88.5	98		
NYBS811-34	96.4	0.4	95.5	77	90		
NYBS811-43	91.7	0.8	100	89.5	99		
RILO257-01-011	88.1	3.5	98	82.5	92		
Secretariat*	90.0	0.9	92.5	70	93		
TM17.167-008	89.7	2.0	99.5	87.5	96		
TM18.236-016	93.7	1.2	96	71	97		
VA22M-158	97.2	0.2	99.5	70	98		
VA22M-160	93.6	0.8	96.5	55.5	95		
VA22M-30	97.7	0.2	100	82.5	98		
VT Beahm**	71.6	5.2	26	10	30		
Wintmalt	92.6	0.8	92	61.5	98		
Grand Mean	92.0	1.1	94.4	76.5	93.8		
STDEV	6.5	1.4	11.7	16.2	10.8		

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%
- 4 ml GE >95
- DON <1.0 ppm
- SN >120 – lower indicates pre-harvest sprout
- Water sensitivity 4ml - 8ml GE (difference over 30 indicates WS)

Grain quality from the Hickory Corners site was analyzed 6 months after harvest. This timing provided enough time for most varieties to break dormancy.

Grain was harvested prior to rainy conditions early in July which avoided pre-harvest sprout conditions.