

WINTER MALTING BARLEY TRIAL – 2024 RESULTS

Variety	HC Yield (bu/A)	HC Density (lb/bu)	CO Yield (bu/A)	CO Density (lb/bu)
20211573~	51.07	59.9	38.48	57.6
11ARS652-7	74.40	47.0	53.94	43.4
13ARS526-8	49.34	42.8	36.77	39
16ARS622-248	47.45	41.5	33.74	35
16ARS627-037	41.76	44.7	39.03	40.8
2MW19_3013-004	68.32	48.2	62.01	48.5
Avalon	52.43	47.5	46.03	47.3
Charles	80.43	36.6	21.96	35
DH141947	82.41	48.3	63.28	43.2
DH162310	66.52	47.1	71.66	44.6
DH170472	62.30	45.8	57.97	44
DH171854	47.93	44.9	37.3	41.9
Flavia	100.12	50.5	19.02	44.8
GHRIL0201-103	102.78	47.5	53.53	47.1
GHRIL02JY-077	81.22	43.7	33.79	42.8
GHRIL02OPL-190	87.35	45.1	39.53	45.6
GHRIL02SCL-010	75.56	45.6	43.26	43.5
Hirondella*	144.60	44.4	109.12	46
LCS Violetta	110.92	47.2	46.58	45.5
Marouetta*	155.89	46.7	100.42	45.8
OM 140088	37.85	48.4	55.93	46.3
Secretariat	70.45	51.9	75.15	49.3
VT Beahm**	40.05	47.4	12.24	44.4
W2M001	79.01	36.9	81.38	45.7
W2M002	55.55	49.6	46.85	43.7
W6M003*	51.94	45.2	44.78	40.9
Wintmalt	67.95	45.7	16.07	42.9
GRAND MEAN	73.97	46.3	49.62	44.24
STDEV	29.43	4.38	23.39	4.33

SITE DETAILS

HC = Hickory Corners, MI

CO = Cooks, MI

Planting date: HC- 9/26/23
CO – 9/19/23

Fertility: HC-30 lbs N/A, 35 lbs P/A, 60 lbs K/A, 10 lbs S/A Fall Applied. 90 lbs N/A, 12 lbs S/A, 0.13 lb B/A Spring Applied.

CO-12 lbs. N/A, 24 lbs. P/A, 24 lbs. K/A fall applied plus N credit from field peas. 67 lbs N/A, 24 S/A Spring Applied

Herbicide: 13.5 oz/A Huskie

Fungicide: 13.7 oz/A Miravis Ace (HC Only)

Harvest: HC-6/24/24
CO-7/31/24

Growing season conditions: A mild fall and winter resulted in good winter survival, including at Cooks which is in Michigan's Upper Peninsula. Spring conditions were relatively wet and warm which led to shortened grain fill periods at HC which reduced yield potential, particularly for the 2 row varieties.

*Six-row varieties

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

~Hulless varieties

#Test Weights were recorded after cleaning grain for quality analysis

WINTER MALTING BARLEY TRIAL – 2024 HC QUALITY

Variety	% CP (Protein)	Plump (6/64)	Thin	GE 4 ml	GE 8 ml	GC	SN	DON (ppm)
20211573~	11.2	79.3	3.4	98	95	98	163	0.20
11ARS652-7	10.5	63.4	5.4	97	83	98	112	0.23
13ARS526-8	11.5	48.0	20.8	87	75	92	19	0.25
16ARS622-248	10.5	66.4	5.5	97	77	96	20	0.27
16ARS627-037	11.9	50.6	10.9	84	62	90	15	0.19
2MW19_3013-004	11.2	90.1	0.7	31	29	94	156	0.21
Avalon	11.7	77.8	5.8	75	38	100	148	0.33
Charles	11.8	85.1	12.5	93	79	98	15	0.24
DH141947	10.6	93.0	6.2	93	24	97	155	0.32
DH162310	11.7	82.6	1.9	98	84	99	26	0.20
DH170472	11.7	88.0	1.6	93	87	100	92	0.26
DH171854	11.9	75.7	2.3	30	21	100	154	0.44
Flavia	11.6	83.5	16.6	50	26	97	149	0.33
GHRIL0201-103	11.2	75.4	20.4	93	52	98	147	0.30
GHRIL02JY-077	11.9	56.0	34.5	95	46	100	106	0.28
GHRIL02OPL-190	11.9	76.1	2.8	91	32	99	150	0.23
GHRIL02SCL-010	11.9	66.9	5.2	94	56	97	126	0.37
Hirondella*	10.2	71.6	26.2	60	37	96	157	0.23
LCS Violetta	12.5	71.8	24.4	51	25	98	159	0.22
Marouetta*	9.8	85.3	13.9	67	27	99	178	0.29
OM 140088	11.3	87.6	1.5	88	86	96	51	0.22
Secretariat	11.1	86.0	1.7	24	14	99	179	0.91
VT Beahm**	12.0	69.0	3.6	10	4	93	184	0.37
W2M001	10.9	78.2	3.5	90	50	97	167	0.22
W2M002	10.8	79.7	2.1	98	77	98	108	0.22
W6M003*	11.7	43.8	15.2	40	19	96	136	0.41
Wintmalt	11.4	88.4	10.6	90	39	98	151	0.32
GRAND MEAN	11.3	74.8	9.6	74.7	49.8	97.1	119	0.30
STDEV	0.63	13.26	9.08	27.1	26.9	2.49	56	0.14

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%
- 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 1 month after harvest. This timing may have resulted in lower GE's due to varieties still exhibiting dormancy.

Warm conditions during grain fill in Hickory Corners resulted small kernels across most varieties.

WINTER MALTING BARLEY TRIAL – 2024 CO QUALITY

Variety	% CP (Protein)	Plump (6/64)	Thin	GE 4 ml	GE 8 ml	GC	SN	DON (ppm)
20211573~	9.9	78.8	1.9	97	94	94	9	0.21
11ARS652-7	9.6	79.1	1.5	86	56	99	13	0.22
13ARS526-8	11.2	61.6	7.2	32	34	69	5	0.24
16ARS622-248	10.4	74.5	2.7	45	49	64	4	0.16
16ARS627-037	10.4	66	4.3	17	14	77	5	0.15
2MW19_3013-004	10.6	97.4	0.4	96	44	100	155	0.18
Avalon	12.3	87.3	1	97	39	99	138	0.25
Charles	11.4	83.7	2.5	59	38	76	5	0.29
DH141947	10.1	96.6	0.4	88	56	99	137	0.22
DH162310	10.1	96.8	0.5	72	51	93	6	0.26
DH170472	11.1	97	0.4	64	58	93	7	0.28
DH171854	10.9	84.2	1.3	98	31	98	118	0.19
Flavia	11.5	91.9	1.2	92	37	99	124	0.18
GHRIL0201-103	11.7	85.1	1.6	98	45	97	138	0.26
GHRIL02JY-077	11.2	62	4	97	33	97	115	0.28
GHRIL02OPL-190	11.3	78.9	2.1	100	40	98	136	0.24
GHRIL02SCL-010	10.7	82.2	1.7	97	50	99	91	0.24
Hirondella*	8.4	95.9	0.7	100	75	98	121	0.31
LCS Violetta	10.5	97.1	0.3	93	44	100	160	0.37
Marouetta*	8.0	98.7	0.1	100	48	98	143	0.26
OM 140088	10.9	97.9	0.2	62	48	95	8	0.22
Secretariat	10.0	92.2	1.2	96	63	93	166	0.21
VT Beahm**	10.7	86.2	1.2	72	7	92	154	0.17
W2M001	9.8	94.5	0.9	92	41	97	82	0.31
W2M002	10.1	91.3	1	76	52	91	8	0.14
W6M003*	11.9	65.8	5.5	86	37	99	122	0.19
Wintmalt	10.7	94.3	0.8	93	36	96	123	0.24
GRAND MEAN	10.6	85.8	1.7	81.7	45.2	93	84	0.23
STDEV	0.96	11.66	1.71	22.2	16.8	9.6	63	0.05

CO 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
- SN >120

The Cooks location was tested for quality 5 months after harvest.

The site experienced drier than normal conditions during the growing season, then had significant rain during physiological maturity. Harvest was delayed due to waiting for the winter wheat to be harvested around the plot.

