

WINTER MALTING BARLEY TRIAL – 2022 RESULTS

Hickory Corners, Michigan

Variety	Yield (bu/A)	Test Weight (lbs/bu) #	Heading Date	Height (inch)
13ARS503-1	127.9	53.0	5/25	30.7
13ARS506-8	128.0	51.7	5/28	27.0
13ARS514-5	97.1	49.5	5/30	24.3
2MW18_4462-008	108.7	50.5	5/26	35.3
AC 15/172/43	121.0	50.0	5/25	33.7
Amaze 10*~	96.6	58.7	5/27	34.7
Avalon	105.2	53.9	5/27	36.7
Charles	113.4	47.6	5/27	27.3
Dementiel*	134.7	51.0	5/27	30.7
DH0214-007	107.2	51.0	5/26	30.3
DH02FL-028	103.5	49.4	5/30	30.7
DH141222	117.4	51.6	5/26	28.7
DH141225	113.3	52.7	5/27	31.3
DH141917	121.3	49.9	5/30	30.7
Endeavor	121.1	52.3	5/30	33.0
Flavia	105.0	51.2	5/27	28.3
Hirondella*	104.7	49.0	5/29	31.0
KWS Donau	122.6	51.3	5/30	31.0
KWS Faro*	121.8	50.8	5/25	30.3
KWS Somerset	111.8	51.3	5/30	32.3
LCS Calypso	105.6	48.5	5/27	31.0
LCS Puffin	100.6	51.8	5/27	27.7
LCS Violetta	104.2	51.6	5/27	29.7
Lyberac	114.7	50.8	5/28	28.7
Marouetta*	125.5	49.0	5/25	33.3
MW12_4007-001	122.2	49.5	5/22	34.7
Nomini**	66.9	48.5	5/20	36.7
Pixel*	133.1	47.6	5/27	30.3
RIL02FL-029	110.5	52.2	5/30	34.7
RIL02WI-013	107.2	49.7	5/29	33.7
SC 104865*	112.3	50.0	5/25	31.0
SC 113669*	110.8	50.7	5/26	32.7
Secretariat	97.5	49.6	5/23	30.3
Teepee	119.4	51.3	5/29	30.7
Thoroughbred*	125.7	51.6	5/25	34.3
VA15H-73 2R~	96.2	58.2	5/27	35.0
VA16BFHB-268 NA**	58.5	49.2	5/20	38.3
VA16M-84	109.0	53.0	5/30	37.0
VA17M-13DH1720*	116.4	49.8	5/26	31.7
VA19M-16DH2261	100.4	53.7	5/26	31.3
VA20MFHB-18DH541	114.8	51.0	5/27	29.3
Wintmalt	110.3	51.2	5/30	30.7
Grand Mean	110.6	51.1	5/26	31.7
STDEV	14.6	2.2	2.4	2.9

HICKORY CORNERS

Planting date: 10/20/2021

Fertility: 10/19/2021 – 30 lbs N/acre, 50 lbs P/acre, 10 lbs S/acre.

4/5/2022 60 lbs K/acre, 75 lbs N/acre, 10 lbs S/acre.

Herbicide: 5/5/2022 13.5 oz/acre Huskie

Fungicide: 5/31/2022 13.7 oz/acre Miravis Ace

Harvest: 7/07/2022

Growing season conditions: An average winter was followed by a wet spring, but a 3-week dry period in late June.

Research site details:

W.K. Kellogg Biological Station (KBS): Project managed by Brook Wilke, Josh Dykstra, James DeDecker and Christian Kapp

Previous crop: Soybeans

Soil type: Kalamazoo Loam

*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 – 2022 QUALITY

Hickory Corners, Michigan

Variety	% Protein	Plump (6/64)	Thin	GE 4 ml	GE 8 ml	GC	RVU	DON (ppm)
13ARS503-1	9.1	95.3	0.3	69	25	99	118	0.3
13ARS506-8	9.8	94.5	0.3	90	55	99	138	0.17
13ARS514-5	9.9	88.9	1.1	48	26	84	48	0.14
2MW18_4462-008	11.2	98.5	0.1	96	92	97	163	0.34
AC 15/172/43	10.2	99	0.1	97	87	99	150	0.32
Amaze 10*~	10.9	46.9	4.6	100	96	98	163	0.29
Avalon	11.3	99.5	0.1	100	96	100	137	0.33
Charles	9.6	98.1	0.2	85	78	99	38	0.17
Dementiel*	9.3	97.6	0.2	99	87	98	159	0.48
DH0214-007	11.1	98.9	0.1	94	89	99	171	0.2
DH02FL-028	9.9	96.1	0.2	99	97	99	159	0.16
DH141222	9.7	99.2	0	96	86	100	134	0.24
DH141225	10	99.7	0	96	85	99	143	0.51
DH141917	10.3	99	0.1	98	90	99	148	0.13
Endeavor	10	87.6	1.1	52	17	88	71	0.17
Flavia	10.7	99.3	0	100	89	99	152	0.2
Hirondella*	10.4	97.8	0.1	99	100	100	155	0.41
KWS Donau	10.4	99.3	0.1	99	93	100	148	0.19
KWS Faro*	8.7	97.8	0.2	99	98	100	124	0.51
KWS Somerset	9.8	98.8	0.1	100	98	98	167	0.14
LCS Calypso	10.5	98.4	0	95	97	98	161	0.14
LCS Puffin	10	98.6	0.1	97	97	100	146	0.16
LCS Violetta	10.2	98.9	0.1	100	93	97	169	0.37
Lyberac	9.1	98	0.2	100	94	100	153	0.47
Marouetta*	9	98.5	0.1	99	99	100	137	0.57
MW12_4007-001	10.5	96.7	0.4	100	86	97	157	0.28
Nomini**	11.6	88.9	0.5	97	23	95	178	0.26
Pixel*	9.4	97.5	0.1	100	99	99	157	0.66
RIL02FL-029	10.8	93.8	0.3	99	65	97	166	0.13
RIL02WI-013	10.5	97.6	0.1	98	80	99	172	0.08
SC 104865*	9.3	98.2	0.1	98	92	97	156	0.78
SC 113669*	9.7	98.1	0.1	99	91	99	148	0.73
Secretariat	10.8	95.2	0.3	99	94	100	158	0.35
Teepee	10.1	98	0.2	100	94	99	145	0.21
Thoroughbred*	10.1	97.3	0.1	97	95	97	147	0.58
VA15H-73 2R~	11.5	73.5	1.2	97	97	99	171	0.17
VA16BFHB-268 NA**	11.4	77.7	0.6	98	15	97	161	0.24
VA16M-84	11.3	99.2	0	99	95	99	153	0.13
VA17M-13DH1720*	9.2	93.8	0.4	97	97	99	161	0.6
VA19M-16DH2261	11.2	99.4	0	99	96	99	182	0.1
VA20MFHB-18DH541	10.2	98.9	0.1	100	92	99	156	0.29
Wintmalt	9.9	97.5	0.3	95	88	98	154	0.21
Grand Mean	10.2	94.9	0.3	94.7	82.5	98.	147.0	0.3
STDEV	0.7	9.2	0.7	11.3	24.1	3.0	29.5	0.2

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. The consistent spring rainfall followed by dry periods during harvest produced high quality barley across most varieties.

