

# EuroMalt 2016 NWREC Conventional

Name	Heading	Leaf				Test				
	(Days after Jan. 1)	Height (in)	rust (%)	Mildew (%)	Lodging (%)	Brackling (%)	Ag score (1-4 scale)	Protein (%)	weight (lb/bu)	Yield (lb/A)
Copeland	161	43	50.0	20.0	13	75	3.0	9.2	51	4767
Richard	157	36	5.0	7.5	0	40	3.0	8.5	54	6579
Krona	159	33	5.0	2.5	0	18	2.5	8.3	55	7466
Glassel	159	30	5.0	2.5	0	23	2.5	8.8	54	7654
Belgravia	159	33	5.0	2.5	0	30	3.0	8.8	54	6759
Chronicle	157	32	7.5	7.5	0	18	3.0	8.2	54	7458
Propino	158	30	7.5	5.0	0	10	2.0	8.6	53	6927
Tipple	158	29	10.0	5.0	0	18	2.5	8.2	53	7146
Alexis	160	29	45.0	7.5	0	28	3.0	8.6	53	5342
Cellar	156	28	5.0	5.0	0	50	3.0	8.8	55	6491
Defra	160	30	7.5	10.0	0	18	2.5	8.3	55	6260
Oxbridge	160	27	7.5	7.5	0	8	2.0	7.5	54	6535
Quench	157	25	10.0	5.0	0	5	2.0	9.4	52	6912
Amulet	158	28	40.0	5.0	0	10	3.0	8.4	55	5900
Cocktail	157	25	5.0	5.0	0	5	2.0	8.4	55	6739
Chalice	160	29	10.0	12.5	0	15	2.5	10.0	52	6630
Chariot	158	30	7.5	12.5	0	10	2.0	9.4	54	6288
Decanter	159	30	5.0	5.0	0	8	2.0	8.8	54	7198
Optic	160	39	15.0	12.5	8	23	2.5	8.9	55	7673
Full Pint	154	23	45.0	50.0	0	35	3.0	11.7	50	4772
CV %	0.7	6.9	17.7	25.9	246.0	54.4	15.3	9.8	1.7	6.9
LSD (P=0.05)	2	4	5.5	5.1	5	25	0.8	1.8	2	949
Mean	158	30	14.9	9.5	1	22	2.6	8.8	54	6575
Minimum	154	22	5.0	0.0	0	5	2.0	7.0	48	4367
Maximum	161	45	50.0	50.0	20	90	3.0	13.9	56	8147

# MTVMalt 2016 NWREC Conventional

Name	Heading	Height (in)	Leaf	Mildew (%)	Lodging (%)	Brackling (%)	Ag score (1-4 scale)	Protein (%)	Test	
	(Days after Jan. 1)		rust (%)						weight (lb/bu)	Yield (lb/A)
Baronesse	156	35	13.3	26.7	27	28	3.3	9.6	53	5867
Richard	157	34	20.0	20.0	27	30	3.0	8.4	53	6174
Copeland	159	38	56.7	26.7	33	40	3.3	9.0	51	4285
Full Pint	154	26	33.3	76.7	10	50	3.0	9.4	50	4357
Pilot	159	31	26.7	11.7	0	33	2.7	9.4	52	5512
Genie	158	30	25.0	10.0	7	30	2.7	9.3	53	6105
Overture	158	30	28.3	6.7	3	18	2.3	8.4	52	7286
Odyssey	157	30	23.3	6.7	8	43	3.0	8.1	53	7441
Explorer	154	28	20.0	8.3	2	27	2.7	8.6	52	6254
UC1323	156	34	30.0	25.0	2	17	2.7	8.5	54	5953
UCMV2	151	34	60.0	13.3	0	8	2.3	7.7	54	4944
UCMV3	150	33	53.3	26.7	8	17	2.7	7.5	55	4880
UCMV4	150	38	56.7	23.3	8	50	3.0	8.2	52	5725
UCMV5	149	37	56.7	30.0	3	23	2.3	7.8	55	5447
UCMV6	152	36	48.3	33.3	13	40	3.0	7.7	53	5209
UCMV7	149	34	40.0	23.3	2	25	2.7	8.2	54	5894
UCMV8	148	34	36.7	28.3	0	8	2.0	8.8	54	6112
UCMV9	149	33	45.0	56.7	8	37	3.0	8.3	51	4929
UCMV10	151	39	40.0	33.3	12	67	3.0	7.8	53	5082
UCMV11	150	33	65.0	20.0	2	5	2.3	7.2	51	5106
UCMV12	157	30	66.7	33.3	0	7	2.0	8.7	52	5006
UCMV13	149	32	41.7	40.0	7	12	2.3	7.7	52	5367
UCMV15	150	36	50.0	23.3	7	53	3.0	7.8	51	4932
UCMV17	155	28	36.7	26.7	0	7	2.3	8.1	55	4658
CV %	0.6	8.7	25.3	49.6	213.7	51.5	17.2	8.5	1.7	18.4
LSD (P=0.05)	2	5	16.9	21.4	28	24	0.8	1.2	1	1668
Mean	153	33	40.6	26.3	8	28	2.7	8.3	53	5522
Minimum	148	24	10.0	5.0	0	0	2.0	6.6	50	2909
Maximum	160	43	80.0	80.0	90	80	4.0	10.8	56	8715

# WSU Variety Testing 2016 NWREC Conventional

Name	Heading		Leaf rust (%)	Barley stripe		Mildew (%)	Lodging (%)	Brackling (%)	Ag score (1-4 scale)	Test	
	(Days after Jan. 1)	Height (in)		rust (%)	rust (%)					Protein (%)	weight (lb/bu)
BZ 509-601	154	37	52.5	0.0	55.0	38	73	3.5	9.5	50	5291
Champion	154	33	50.0	0.0	60.0	48	53	3.0	11.1	49	4481
Claymore	157	40	55.0	25.0	65.0	45	55	3.5	10.6	47	5505
Oreana	157	31	45.0	12.5	30.0	15	70	3.5	7.7	49	5446
Bob	154	38	40.0	0.0	60.0	50	55	3.0	8.8	52	4668
LCS Vespa	156	32	25.0	35.0	20.0	5	25	2.5	8.4	51	6328
Lenetah	154	35	55.0	0.0	45.0	15	55	3.5	8.1	52	5321
10WA-106.18	154	40	40.0	30.0	55.0	52	90	3.5	9.7	48	4155
10WA-106.20	153	35	50.0	0.0	75.0	30	55	3.0	8.3	52	5084
Lyon	153	30	35.0	45.0	72.5	15	75	3.0	8.4	51	4742
Muir	155	38	40.0	0.0	70.0	43	18	3.5	8.3	52	4573
10WA-105.C	154	31	65.0	15.0	60.0	5	25	3.0	7.9	51	5252
11WA-105.11	156	32	65.0	0.0	60.0	3	38	2.5	7.7	53	5000
07MWA-202	156	33	32.5	0.0	60.0	8	13	2.5	6.9	53	5441
07MWA-203	156	29	25.0	0.0	50.0	10	15	2.5	7.4	54	5671
07MWA-204	156	32	35.0	0.0	72.5	3	13	2.5	7.0	54	5960
2Ab09-X06F058HL-31	157	33	50.0	15.0	65.0	33	65	3.5	11.9	53	3636
Havener	160	34	65.0	12.5	70.0	8	28	3.0	12.1	56	3616
X05013-T1	158	37	45.0	0.0	67.5	3	28	3.0	10.0	55	5188
CDC Copeland	157	43	55.0	0.0	60.0	15	85	3.5	7.9	50	5373
LCS Genie	157	26	17.5	0.0	5.0	5	28	2.5	10.1	55	5137
LCS Odyssey	156	26	12.5	0.0	5.0	3	18	2.0	8.4	52	6375
LCS Westminster	156	33	12.5	0.0	10.0	5	23	3.0	8.4	51	6854
2Ab08-X05M010-82	156	36	45.0	0.0	42.5	13	38	3.0	8.2	51	6911
10WA-117.17	156	37	70.0	0.0	40.0	20	90	4.0	8.1	51	5105
10WA-117.24	156	39	50.0	0.0	35.0	30	55	3.5	8.6	50	4898
11WA-107.43	154	33	45.0	12.5	55.0	0	30	3.0	8.3	52	6037
11WA-107.58	154	34	45.0	35.0	60.0	10	30	3.0	7.6	52	5498
12WA-120.14	154	35	35.0	30.0	45.0	25	43	2.5	7.3	52	5701
12WA-120.17	155	35	45.0	0.0	55.0	3	55	3.0	7.7	52	6512
CV %	0.4	8.9	23.6	186.3	26.4	138.4	60.0	19.7	17.9	4.1	19.8
LSD (P=0.05)	1	6	20.9	34.0	27.5	52	55	1.2	3.2	4	2156
Mean	155	34	43.4	8.9	50.8	18	45	3.0	8.7	52	5325
Minimum	153	21	10.0	0.0	5.0	0	5	2.0	6.8	43	3014
Maximum	160	44	70.0	60.0	80.0	99	100	4.0	14.8	58	7777

# Oregon Promise 2016 NWREC Conventional

Name	Heading		Leaf				Test			
	(Days after Jan. 1)	Height (in)	rust (%)	Mildew (%)	Lodging (%)	Brackling (%)	Ag score (1-4 scale)	Protein (%)	weight (lb/bu)	Yield (lb/A)
DH120058	157	26	56.7	60.0	30	50	3.3	11.6	50	4983
DH120145	162	26	60.0	80.0	28	43	3.3	12.1	49	4222
DH120031	154	33	63.3	66.7	35	47	3.3	11.7	52	4422
DH120090	153	27	50.0	86.7	12	47	2.7	10.7	51	4621
DH120285	156	25	56.7	73.3	12	67	3.0	10.7	50	4059
120314	151	25	53.3	76.7	40	48	2.7	10.7	54	3563
120331	151	26	56.7	70.0	17	40	2.3	9.8	53	4586
120341	154	24	50.0	66.7	18	35	2.3	9.7	54	4616
120365	150	26	50.0	70.0	23	60	3.0	11.9	52	4626
120374	156	28	56.7	73.3	17	50	2.7	10.7	51	4657
120510	158	28	50.0	63.3	7	27	2.7	10.0	52	5628
120516	156	24	60.0	70.0	15	40	3.0	12.2	49	4292
120520	152	24	50.0	76.7	20	77	3.3	11.4	49	4269
120536	154	26	50.0	66.7	10	57	3.0	9.6	52	5681
120657	158	24	53.3	70.0	15	60	3.0	10.9	50	4243
120661	157	23	56.7	63.3	25	43	3.0	10.2	52	4406
120671	153	24	50.0	76.7	35	60	3.0	11.1	51	4741
120691	156	24	53.3	76.7	2	10	2.0	11.2	51	4289
120731	156	26	63.3	63.3	25	47	3.3	10.8	51	4246
120322	151	32	50.0	76.7	33	47	2.7	10.7	55	4203
120359	156	17	60.0	76.7	5	23	3.0	13.0	47	3396
120373	153	29	60.0	66.7	42	70	3.3	10.8	51	3973
120744	153	18	46.7	86.7	40	50	3.7	13.5	49	4086
120329	154	29	50.0	63.3	7	33	2.7	10.3	52	5600
Golden Promise	158	28	56.7	60.0	20	47	3.0	10.1	50	4451
Full Pint	155	23	36.7	83.3	7	40	3.0	10.9	52	4209
Copeland	159	40	60.0	63.3	10	30	2.7	8.9	53	5507
CV %	0.6	6.6	21.0	13.6	96.6	47.1	16.8	9.2	2.7	13.9
LSD (P=0.05)	2	3	18.6	15.9	32	36	0.8	1.7	2	1028
Mean	155	26	54.1	71.4	20	46	2.9	10.9	51	4503
Minimum	150	16	30.0	40.0	0	5	2.0	8.8	45	2477
Maximum	162	42	70.0	90.0	95	95	4.0	14.4	56	6569

# Hull-less Trial 2016 NWREC Conventional

Name	Heading	Height (in)	Leaf rust (%)	Mildew (%)	Lodging (%)	Brackling (%)	Ag score (1-4 scale)	Yield (lb/A)
	(Days after Jan. 1)							
3-32-8-2R	155	38	20.0	15.0	48	75	3.0	4494
5-36-1-2R	152	40	40.0	20.0	43	50	3.0	3624
Jet	153	32	80.0	15.0	70	100	4.0	1713
Meresse	156	35	60.0	25.0	5	75	3.5	3161
Oscar	154	42	70.0	30.0	43	73	3.5	3199
Purple Prairie	151	35	75.0	30.0	58	90	3.5	1847
Purple Egyptian	151	16	92.5	35.0	3	85	4.0	1056
XO5013-T1	158	35	50.0	45.0	5	33	2.0	4657
Black Beaut 5	153	33	60.0	27.5	13	40	3.0	3340
Black Beaut 6	151	30	65.0	15.0	25	45	3.5	3033
Black Beaut 8	150	31	62.5	22.5	73	70	3.5	3102
Black Beaut 14	151	35	50.0	22.5	53	55	3.5	3307
Black Beaut 17	152	36	55.0	17.5	43	50	3.0	3260
Black Beaut 19	153	34	65.0	35.0	48	68	3.5	2622
Black Beaut 20	155	32	67.5	40.0	33	60	3.0	3043
Tamalpais	150	20	55.0	25.0	0	30	2.5	3733
DH133904	149	28	32.5	15.0	5	10	2.0	4553
DH133476	152	28	55.0	20.0	3	40	3.0	3898
DH133529	154	31	30.0	7.5	15	38	3.0	4815
DH133532	152	28	27.5	5.0	5	65	3.0	3998
DH133535	159	35	15.0	40.0	13	50	3.0	4733
DH133556	150	31	45.0	35.0	8	50	3.0	3951
10.0662	154	29	12.5	7.5	5	15	3.0	4956
10.0655	155	28	10.0	5.0	0	10	2.0	5113
10.0883	160	31	12.5	5.0	0	5	2.5	4329
CV (%)	0.6	9.0	26.5	36.5	90.9	45.0	14.7	19.6
LSD (P=0.05)	2	6	26.4	16.9	46	48	0.9	1449
Mean	153	32	48.3	22.4	24	51	3.1	3581
Minimum	148	14	10.0	5.0	0	0	2.0	779
Maximum	160	43	95.0	50.0	95	100	4.0	5426

# Hull-less Trial 2016 Hedlin's Organic

Name	Heading	Height (in)	Leaf rust (%)	Barley			Brackling (%)	Yield (lb/A)
	(Days after Jan. 1)			Stripe Rust (%)	Mildew (%)	Lodging (%)		
3-32-8-2R	167	34	27.5	0.0	10.0	0	40	2792
5-36-1-2R	160	30	50.0	0.0	45.0	8	55	2438
Jet	159	24	70.0	0.0	55.0	0	98	1749
Meresse	163	22	45.0	30.0	40.0	15	65	2935
Oscar	159	28	70.0	0.0	25.0	35	70	2479
Purple Prairie	162	27	85.0	0.0	40.0	0	45	1013
Purple Egyptian	157	12	97.5	0.0	60.0	20	5	1162
XO5013-T1	166	28	50.0	0.0	12.5	15	25	3288
Black Beaut 5	158	24	67.5	0.0	7.5	0	3	2930
Black Beaut 6	157	22	55.0	0.0	20.0	0	3	2651
Black Beaut 8	156	22	55.0	15.0	10.0	0	3	3057
Black Beaut 14	161	25	50.0	0.0	30.0	0	0	3244
Black Beaut 17	158	26	27.5	15.0	38.0	0	3	3150
Black Beaut 19	157	24	50.0	20.0	8.0	0	8	2783
Black Beaut 20	160	23	45.0	25.0	30.0	5	8	2715
Tamalpais	156	17	85.0	0.0	12.5	5	10	3330
DH133904	156	19	60.0	15.0	32.5	3	8	3571
DH133476	159	18	60.0	10.0	25.0	8	55	3042
DH133529	161	24	47.5	0.0	7.5	15	25	3145
DH133532	158	22	47.5	30.0	17.5	20	53	2802
DH133535	169	26	45.0	0.0	7.5	20	35	3678
DH133556	159	22	62.5	20.0	50.0	25	18	2645
10.0662	161	23	20.0	62.5	10.0	8	25	3263
10.0655	164	21	22.5	60.0	5.0	10	10	3336
10.0883	168	25	17.5	22.5	7.5	0	8	3429
CV %	0.6	6.3	34.3	142.7	44.3	90.5	48.0	14.8
LSD (P=0.05)	2	3	37.2	38.2	22.1	15.7	26.7	861
Mean	160	23	52.5	13.0	24.2	8	27	2825
Minimum	155	11	15.0	0.0	5.0	0	0	1005
Maximum	169	34	100.0	80.0	60.0	40	100	3889

## Screening Trial Methods

**Planting:** NWREC plots were planted on March 31, 2016 and Hedlin's plots were planted on April 19, 2016 using a custom Allis-Chalmers tractor.

**Harvest:** Mature plots were harvested using a Wintersteiger NurseryMaster on August 1, 2016 at NWREC and August 23, 2016 at Hedlin's.

Agronomic score is rated on a 1-4 scale, where 1 is the best looking plot and 4 is the worst.

For additional information contact Steve Lyon ([slyon@wsu.edu](mailto:slyon@wsu.edu)).

For additional variety testing results visit: <http://plantbreeding.wsu.edu>

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