

GREAT WESTERN MALTING

REQUEST FOR INCLUSION ON THE AMBA RECCOMENDED VARIETY LIST

October 24, 2012

Variety: Wintmalt

Variety Description: Two Row Winter Malting Barley

Wintmalt is a European high yielding winter two row with a good disease resistance package. It was added to the EU recommended list in for the 2008/2009 crop year. It out yields current German two rows with 108 % yield compared to the average of existing German varieties, and 2 % better than the highest yielding variety Finesse. Malting quality Europe is good with high plump, low protein, good modification, low viscosity and good fermentability.

Wintmalt is adapted to Central Washington and shows good winter hardiness. Nebraska Winter Survival rates are shown below.

WINTMALT NEBRSKA SURVIVAL		
Entry	Variety	WinSur LSMEAN
5	OR76	92.5
8	93Ab631	77.5
18	Saturn	76.4
3	McGregor	75.6
14	04/153/2	70.0
10	Wintmalt	61.4
13	03/220/158	60.3
11	KW 2-832	59.7
4	maja	53.3
7	93Ab669	50.6
2	Strider	47.5
6	Endeavour	47.2
12	KW 2-849	45.0
16	04/028/36	41.1
1	Charles	37.8
17	Famosa	35.6
9	02Ab1604	34.7
15	04/002/23	30.6

SOURCE: PAT HAYES

Commercial yields in Washington are up to 4.5 tons per acre, as compared to 3 tons per acre for Metcalfe.

Yield data from one strip plot near Corvallis, OR is shown below.

Variety	yield (lbs/ac)	test weight (lbs/bu)	plump (% on 6/64)	moisture	protein
Verdant	6042	51.7	97	9.4	12.1
OR 818	6795	51	93	8.4	11.8
Alba	9759	54.9	98	8	12.1
Maja	6830	54.3	90	8.7	11.9
Charles	7177	49.5	97	7.9	12
Wintmalt	8104	53.8	98	7.9	12.3
Endeavor	7765	54.4	93	8.1	12.6

Estimate Yield based on one plot near Corvallis, OR.
Source : Pat Hayes, OSU

Wintmalt exhibited good yield and good test weight, and sizing relative to other winter barley's in this single plot.

Malt Quality

Malt quality is acceptable and would be rated as very good for a winter two row. Following is analysis from two batches of malt produced at the GWM Vancouver, WA plant.

GWM BATCHMALT ANALYSIS																				
WINTMALT																				
Batch	Variety	Crop Year	malt moisture	extra fine dry	wort colour	malt protein	wort protein	stratio	fan	alpha amylase	dp	wort beta glucan	wort viscosity	friability	wort ph	turbidity	malt size 28	malt size 24	malt size 20	malt size thru 20
9799	WINT	2011	4.1	82.6	2.20	10.39	4.59	44.2	183	50.3	125	81	1.54	93.2	6.29	17.2	76.6	16.9	4.8	1
104	WINT	2012	3.8	81.4	2.55	9.58	5.04	52.7	193	53.9	132	39	1.47	97.9	6.01	7.9	87.1	10.3	2.3	0.3

The malt analysis shows good extract, good sizing, and moderate enzyme levels with low Beta Glucan. Therefore we would respectfully request AMBA add this variety to the AMBA recommended list.

Bruce French

Director of Malting and Technical Services

Great Western Malting