2-ROW SPRING LCS Odyssey

Malting & Brewing LCS Odyssey

An Adventure in Craft Barley

LCS Odyssey is a must-have variety for distillers, as it is the only malting barley variety available in the United States today rated as non-GN (zero glycosidic nitrile content).





By the Numbers	Non-producer of GN (glycosidic nitrile)			
	#1 choice for cereal cyst nematode resistance	Highest yielding variety in 2016 Montana State University trials		

	Malting Specifications							
	Specification	2016 LCS ¹ Fort Collins, Colorado	2016 MSU ² Bozeman, Montana	2015 MSU ³ Combined Michigan	2013 AMBA ⁴ Idaho Falls, Idaho	2013 AMBA ⁴ Pullman, Washington		
	Plump (On 6/64) (%)	97.0	99.9	97.8	97.9	94.5		
	Moisture (%)	10.4	-	15.0	8.1	8.6		
Barley	Total Protein (% d.b.)	10.9	13.6	10.8	10.7	10.3		
_	Pre-Harvest Sprouting (RVA)	154	-	142	-	-		
	DON (ppm)	< 0.1	-	0.0	-	-		
	Extract, Fine Grind (% d.b.)	82.4	79.0	83.2	82.9	81.2		
	Wort Color (Deg. Lov.)	1.56	1.90	2.45	1.66	1.88		
	Diastatic Power (Deg. L)	110	127	77	125	124		
	Alpha Amylase (D.U.)	54.9	44.7	62.0	61.5	60.4		
Malt	Soluble Protein (% d.b.)	4.40	3.62	4.25	4.78	4.14		
	Total Protein (% d.b.)	11.1	13.6	10.7	11.5	10.9		
	Soluble/Total Protein (% d.b.)	39.6	27.5	42.6	41.8	37.8		
	Beta-Glucan (ppm)	82	190	56	76	78		
	Free Amino Nitrogen (FAN)	160	105	214	192	179		

Malting Specifications

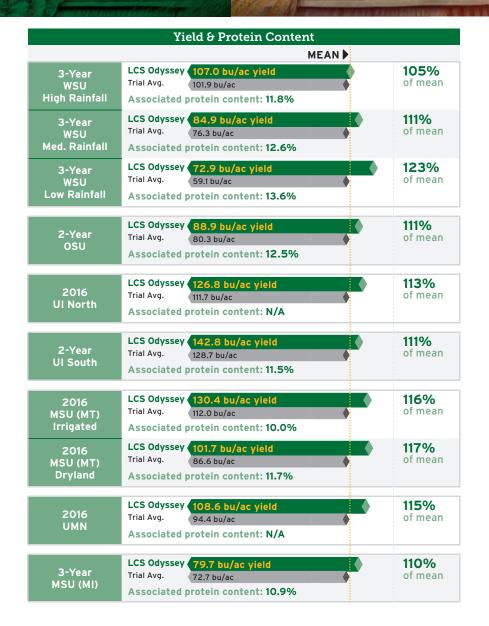
Malt House Analysis ⁷							
Chitting	Steep Out Moisture (%)	Malt Yield	96-Hour Acrospire Count				
(%)		(%)	0-1/4	> 1/4 - 1/2	> 1/2 - 3/4	> 3/4-1	>1
95	45.4	91.3	0	30	35	35	0

1 LCS data, obtained from Hartwick College:

hartwick.edu/about-us/centers-institutes/center-for-craft-food-and-beverage/ 2Data obtained from Montana State University: plantsciences.montana.edu/crops/index.html 3Data obtained from Michigan State University: msue.anr.msu.edu/topic/malting_barley/research 4Data obtained from the American Malting Barley Association: ambainc.org/



Growing LCS Odyssey



Agronomic Features

L	Jniversity of	Idaho South	Oregon State			
	TW (lb/bu)	Height (in)	Heading			Height (in)
LCS Odyssey	48.4	28.7	3.2	LCS Odyssey	50.2	26.3
CDC Copeland	49.1	34.3	0.5	Full Pint	53.5	25.2
AAC Synergy	48.5	32.7	-1.1	CDC Constant	50.2	20.0
AC Metcalfe	50.0	33.7	-1.5	CDC Copeland	50.3	29.0
Moravian 69	46.0	27.0	3.2	AAC Synergy	52.8	29.4

Montana State							
	Irrigated			Dryland			
	TW (lb/bu)	Height (in)	Heading	TW (Ib/bu)	Height (in)	Heading	
LCS Odyssey	52.6	26.7	4.2	53.4	25.1	3.1	
CDC Copeland	53.9	31.9	2.2	53.3	27.8	1.3	
AC Metcalfe	54.0	32.6	-1.8	53.6	29.5	-1.1	
AAC Synergy	52.5	31.7	0.2	53.0	28.7	-0.5	

University of Minnesota						
Lodging (1-9) Height (in) Heading (DOM						
LCS Odyssey	3.4	29.0	2.6			
ND Genesis	3.2	35.2	-0.9			
AC Metcalfe	4.9	35.0	0.6			
AAC Synergy	3.7	34.2	1.1			

Michigan State						
	TW (lb/bu)	Height (in)	Heading (DOM*)	PHS (RVA)		
LCS Odyssey	49.2	22.9	1.3	142.3		
CDC Copeland	37.2	24.0	1.7	77.8		
AC Metcalfe	50.3	25.6	-1.0	51.7		
AAC Synergy	50.4	24.7	-1.7	36.7		

Washington State							
		TW (lb/bu)	Height (in)	Heading (DOM*)			
High	LCS Odyssey	51.7	28.7	8.0			
Rainfall	CDC Copeland	51.4	38.0	8.4			
Medium	LCS Odyssey	52.7	27.0	1.0			
Rainfall	CDC Copeland	51.6	35.0	3.5			
Low	LCS Odyssey	53.1	26.5	1.0			
Rainfall	CDC Copeland	52.5	34.0	3.0			

Data sets are available in their entirety at individual university websites. Links to these websites are listed on **page 32** of this guide. *Days off mean of trial

