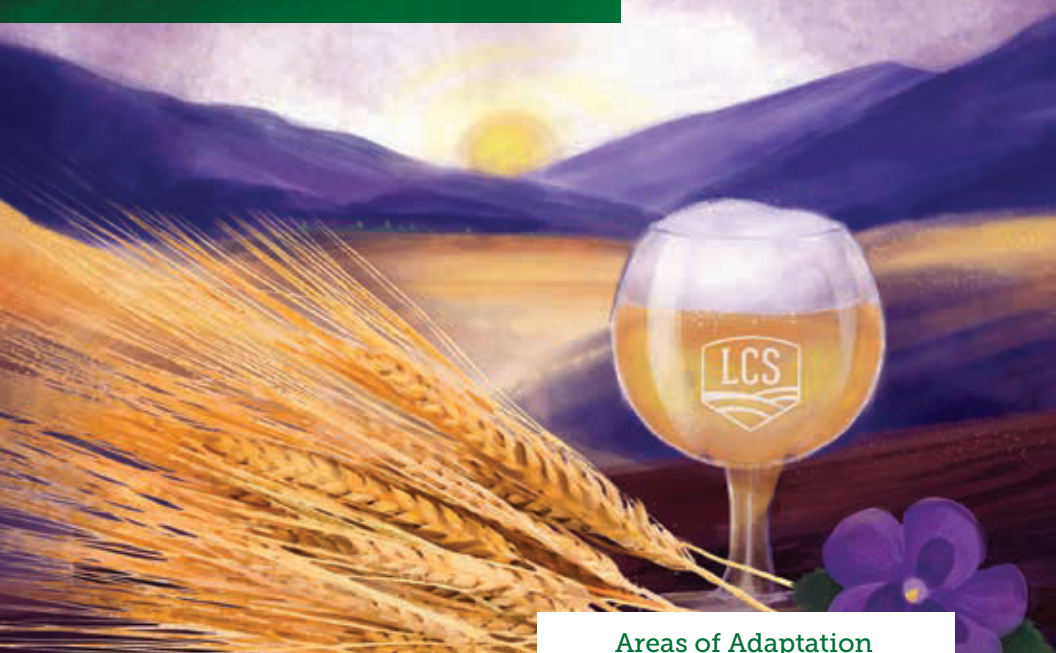


2-ROW WINTER

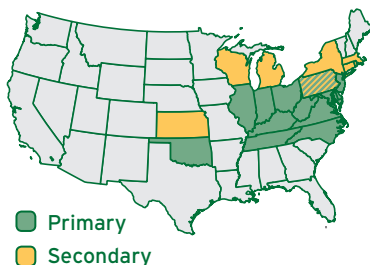
LCS Violetta



Bred for the Craft Spectrum

Excellent adaptation to the Eastern U.S., but grown as far west as Oklahoma. A combination of superior yield and a strong craft beer profile.

Areas of Adaptation



By the Numbers

#1 choice

for double cropping

Consistent
extract 80+% d.b. (FG)

Excellent
test weight

Malting & Brewing LCS Violetta



Malting Specifications

	Specification	2016 LCS ¹ Fort Collins, Colorado	2015 WMBT ² Glen Mills, Pennsylvania	2015 WMBT ² Wooster, Ohio	2015 WMBT ² Corvallis, Oregon
Barley	Plump (On 6/64) (%)	98.2	99.6	93.7	92.1
	Moisture (%)	13.0	-	-	-
	Total Protein (% d.b.)	11.3	-	-	12.0
	Pre-Harvest Sprouting (RVA)	166.0	-	-	-
	DON (ppm)	< 0.1	-	-	-
Malt	Extract, Fine Grind (% d.b.)	81.2	80.6	80.3	78.9
	Wort Color (Deg. Lov.)	1.68	2.14	2.41	2.26
	Diastatic Power (Deg. L)	154	106	179	252
	Alpha Amylase (D.U.)	48.4	41.9	69.0	64.2
	Soluble Protein (% d.b.)	4.40	3.70	5.40	5.41
	Total Protein (% d.b.)	10.8	9.1	13.0	12.8
	Soluble/Total	40.7	40.1	42.1	42.8
	Beta-Glucan (ppm)	114	45	207	142
	Free Amino Nitrogen (FAN)	170	144	223	237

Malt House Analysis¹

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
90	44.9	95.5	0	25	70	5	0

¹ LCS data, obtained from Hartwick College:

hartwick.edu/about-us/centers-institutes/center-for-craft-food-and-beverage/

² Data obtained from Winter Malting Barley Trial (WMBT): triticeaetoolbox.org/barley/

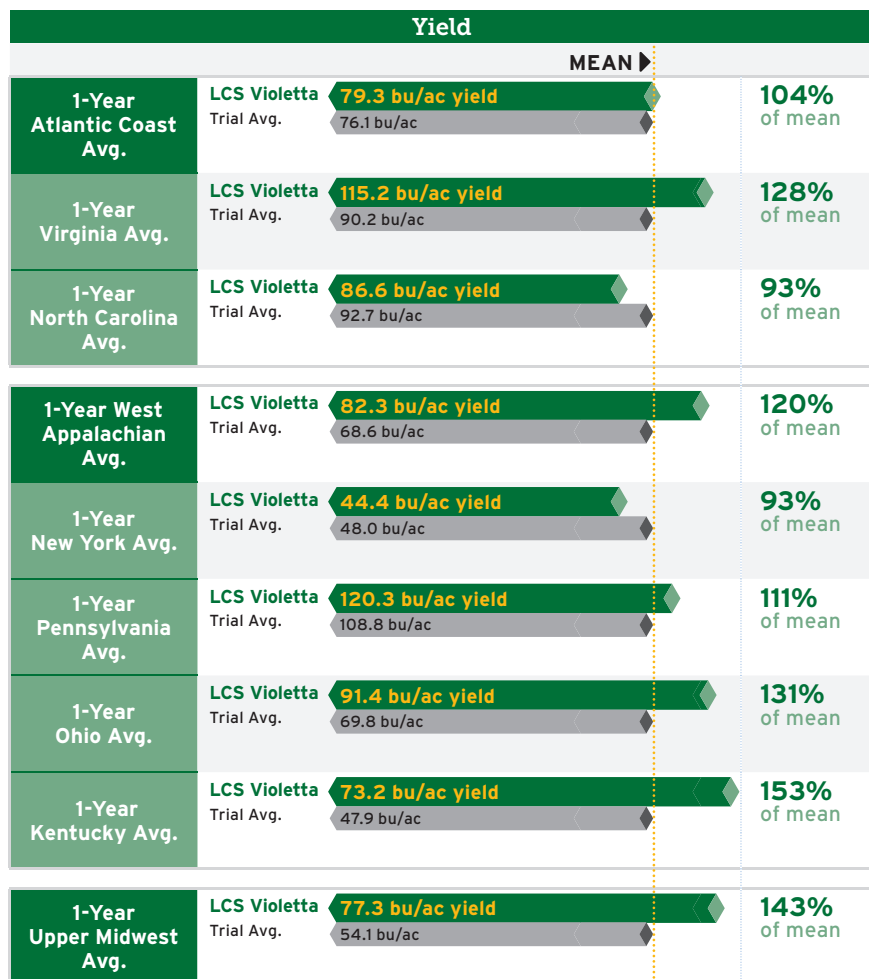
Single-season use grower agreement required.



970.498.2200

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Growing LCS Violetta



Agronomic Features					
WMBT Atlantic Coast ¹					
	TW (lb/bu)	Height (in)	Winter-Hardiness (DOM*)	Heading (RVA)	Lodging (0-9)
LCS Violetta	48.5	28.9	99.0	-1.8	3.1
LCS Calypso	47.0	33.8	99.3	1.0	2.9
Charles	42.3	24.2	93.3	-2.8	4.1
McGregor	42.4	33.3	99.0	1.0	2.6
WMBT West Appalachian ¹					
	TW (lb/bu)	Height (in)	Winter-Hardiness (DOM*)	Heading (RVA)	Lodging (0-9)
LCS Violetta	46.7	31.1	93.3	-2.3	3.3
LCS Calypso	45.6	32.3	92.2	0.7	5.5
Charles	36.8	27.7	90.0	-1.0	6.6
McGregor	46.3	33.0	96.7	-2.2	5.8
WMBT Upper Midwest ¹					
	TW (lb/bu)	Height (in)	Winter-Hardiness (DOM*)	Heading (RVA)	Lodging (0-9)
LCS Violetta	-	23.4	100.0	-4.7	-
LCS Calypso	-	24.0	89.9	-2.8	-
Charles	-	22.2	100.0	0.8	-
McGregor	-	23.8	98.9	-0.5	-
Virginia Tech 3-Year Agronomic Summary ²					
	TW (lb/bu)	Height (in)	Winter-Hardiness (DOM*)	Heading (RVA)	Lodging (0-9)
LCS Violetta	47.4	30.0	96.0	6.0	0.0
Thoroughbred	47.7	34.0	96.0	5.0	3.0
Atlantic	47.5	31.0	93.0	-2.0	3.0
Secretariat	48.1	31.0	92.0	-1.0	5.0
Virginia Tech Disease Summary ²					
	2-Year (2014, 2015)		3-Year (2014, 2015, 2016)		
	FHB Index (0-100)	DON ³ (ppm)	Leaf Rust (0-9)	Net Blotch (0-9)	Powd. Mildew (0-9)
LCS Violetta	25.8	14.4	1.0	2.0	0.0
Thoroughbred	30.9	21.5	3.0	4.0	4.0
Atlantic	34.4	18.7	4.0	3.0	0.0
Secretariat	31.8	17.5	4.0	2.0	0.0

¹ Data compiled from Winter Malting Barley Trial (WMBT) 2016 & 2015 crop years

Full data sets available: <https://triticeaetoolbox.org/barley/>

² Data compiled from VT Cooperative Extension 2016 Small Grains Report

Full data sets available: pubs.ext.vt.edu/category/grains.html

³ DON and FHB scores obtained from inoculated nurseries to simulate heavy pressure

*Days off mean of trial