



HARD RED WINTER WHEAT COAXIUM® FORAGE TRITICALE

2022 SEED GUIDE

# CENTRAL PLAINS

SUPERIOR GENETICS  
PREMIUM VARIETIES

Limagrain 

# Just over a year ago,

**I was very excited about joining LCS.** Today, I'm as excited as ever, but I'll add a new word — grateful. Thanks to our superior CoAXium® and conventional wheat varieties, I've had the opportunity to walk fields with, meet and interact with so many amazing farmers, ag retailers, industry professionals and our dealer network. LCS's CoAXium wheat varieties dominated the market for the third year running in yield, disease protection and acres planted in the Central Plains. We're honored to have been trusted by so many to help eradicate grassy weeds while providing great yields. Our conventional lineup is very strong and always improving, too. Thank you to our top-notch breeding program, the farmers who put their trust in LCS, our exceptional dealer network and our partners in the agriculture industry. **I'm grateful to get to work with you, and I'm here to help at 316.737.7780.**



**Nathan Miller**  
Regional Commercial Manager

## Visit us 24/7

**LimagrainsCerealSeeds.com** is home to the best wheat genetics in the Central Plains. Stop by anytime to find your next high-performance variety, get the most up-to-date data and contact your local seed dealer.

**LimagrainsCerealSeeds.com**



# Bred to perform

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Agronomic, disease resistance and quality scores in this guide are based on the most recent data available at the time of publication, January 2022. Visit **LimagrainsCerealSeeds.com** year-round to see the latest trial data.

Cover photo: LCS Julep in Hutchinson, Kansas



## Racing to victory



**Well rounded**  
disease protection



**Excellent**  
yield potential



**Good tolerance to**  
Fusarium head blight

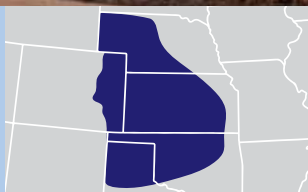


**4 bushel increase**  
over LCS Mint

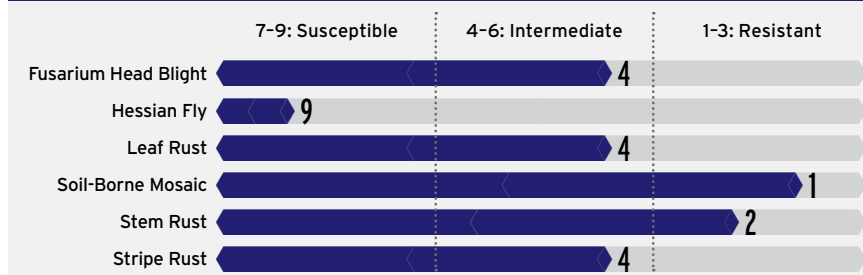
HARD RED WINTER WHEAT

# LCS Runner

ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Acceptable	Acceptable	Most Desirable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Runner	SY Monument	Everest	LCS Mint
Acid Soil Tolerance	Tolerant	Tolerant	Tolerant	Tolerant
Coleoptile Length	Medium-Long	Medium	Medium	Medium-Long
Drought Tolerance	Excellent	Very Good	Average	Excellent
Fall Grazing Potential	Very Good	Good	Average	Good
Fall Ground Cover	Very Good	Good	Good	Good
First Hollow Stem	Intermediate	Later Than Most	Early	Later Than Most
Height	Medium-Tall	Medium-Tall	Medium	Medium-Tall
Maturity	Medium	Medium-Late	Early	Medium-Late
Seed Size	Large	Medium	Large	Medium
Shattering	Good	Very Good	Good	Good
Straw Strength	Very Good	Average	Very Good	Good
Test Weight	Very Good	Good	Good	Very Good
Tillering Ability	Very High	Very High	Intermediate	Intermediate
Winter Hardiness	Excellent	Very Good	Very Good	Average
Yield Potential	Excellent	Excellent	Very Good	Excellent

All available public and private data used in compiling scores

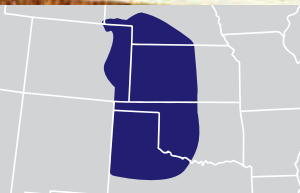




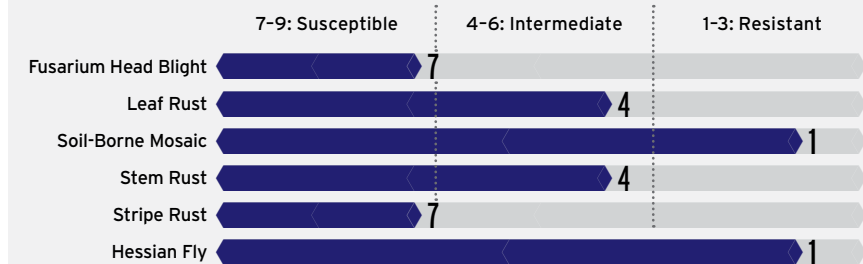
## HARD RED WINTER WHEAT

## LCS Julep

ADAPTATION



## DISEASE TOLERANCE



All available public and private data used in compiling scores

## END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Desirable	Desirable	Acceptable

Data obtained from LCS Quality Laboratory

## Wheat you can bet on



**Large head size**  
and good tillering for  
maximum yield



**Very good**  
drought tolerance



**5 bushel increase**  
over LCS Mint



**Resistant**  
to Hessian fly

## AGRONOMIC FEATURES

	LCS Julep	SY Monument	LCS Mint	Byrd
Acid Soil Tolerance	Tolerant	Tolerant	Tolerant	Mod. Tolerant
Coleoptile Length	Medium	Medium	Medium-Long	Medium-Long
Drought Tolerance	Excellent	Very Good	Excellent	Excellent
Fall Grazing Potential	Excellent	Good	Good	Average
Fall Ground Cover	Very Good	Good	Good	Good
First Hollow Stem	Later Than Most	Later Than Most	Later Than Most	Intermediate
Height	Medium-Tall	Medium-Tall	Medium-Tall	Medium
Maturity	Medium	Medium-Late	Medium-Late	Medium
Seed Size	Large	Medium	Medium	Small
Shattering	Very Good	Very Good	Good	—
Straw Strength	Very Good	Average	Good	Good
Test Weight	Good	Good	Very Good	Average
Tillering Ability	High	Very High	Intermediate	Very High
Winter Hardiness	Very Good	Very Good	Average	Good
Yield Potential	Excellent	Excellent	Excellent	Excellent

All available public and private data used in compiling scores

This variety requires the use of Certified Seed Only.

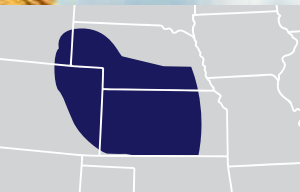


Unauthorized seed multiplication prohibited by law.  
U.S. Plant Variety Protection Number has been granted.

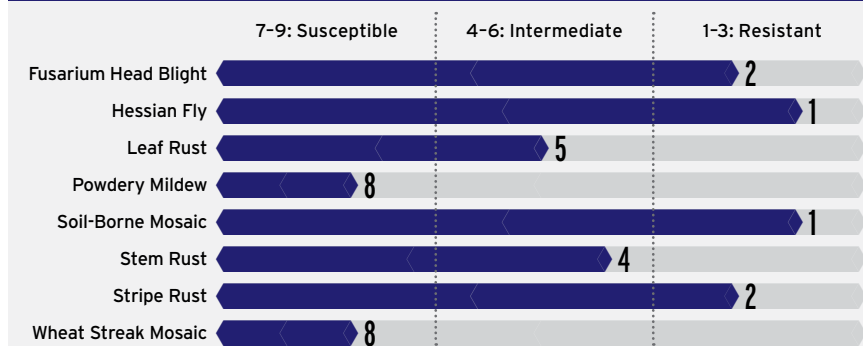


## HARD RED WINTER WHEAT LCS Valiant

ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Desirable	Desirable	Acceptable

Data obtained from LCS Quality Laboratory

## Let your yields soar



**Consistent**  
dryland and irrigation  
performance



**Excellent**  
straw strength



**Very good**  
stripe rust, FHB and  
Hessian fly tolerance



**Early**  
maturity

### AGRONOMIC FEATURES

	LCS Valiant	SY Monument	Byrd	WB Grainfield
Acid Soil Tolerance	Tolerant	Tolerant	Mod. Tolerant	Mod. Tolerant
Coleoptile Length	Medium	Medium	Medium-Long	Medium-Short
Drought Tolerance	Very Good	Very Good	Excellent	Very Good
Fall Grazing Potential	Good	Good	Average	Very Good
Fall Ground Cover	Good	Good	Good	Good
First Hollow Stem	Intermediate	Later Than Most	Intermediate	Intermediate
Height	Medium	Medium-Tall	Medium	Medium-Tall
Maturity	Medium-Early	Medium-Late	Medium	Medium-Late
Seed Size	Medium	Medium	Small	Medium
Shattering	Very Good	Very Good	—	Very Good
Straw Strength	Excellent	Average	Good	Good
Test Weight	Average	Good	Average	Average
Tillering Ability	High	Very High	Very High	High
Winter Hardiness	Excellent	Very Good	Good	Very Good
Yield Potential	Excellent	Excellent	Excellent	Very Good

All available public and private data used in compiling scores

# Wheat you can depend on



**Excellent** drought  
and heat tolerance



**Quick emergence**  
in an early maturity



**Good tolerance**  
to Fusarium head blight



**Very good** stripe  
rust tolerance

HARD RED WINTER WHEAT

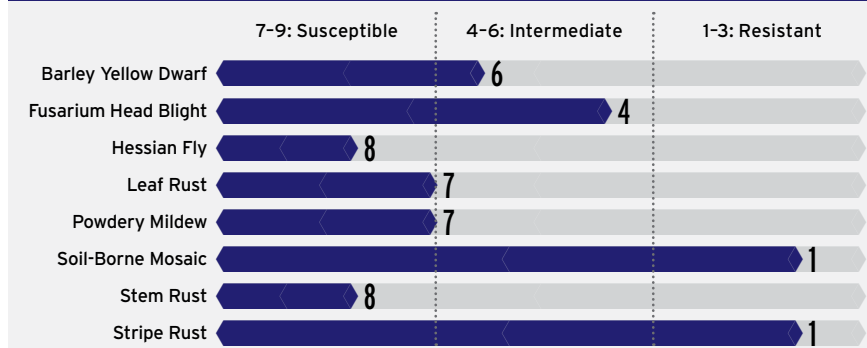
## LCS Revere



ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Acceptable	Less Desirable	Acceptable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Revere	Everest	TAM 111	Byrd
Acid Soil Tolerance	Tolerant	Tolerant	Susceptible	Mod. Tolerant
Coleoptile Length	Medium	Medium	Long	Medium-Long
Drought Tolerance	Excellent	Average	Very Good	Excellent
Fall Grazing Potential	Good	Average	Average	Average
Fall Ground Cover	Excellent	Good	Good	Good
First Hollow Stem	Intermediate	Early	Intermediate	Intermediate
Height	Medium	Medium	Medium-Tall	Medium
Maturity	Medium-Early	Early	Medium-Late	Medium
Seed Size	Large	Large	Small	Small
Shattering	Very Good	Good	Very Good	–
Straw Strength	Good	Very Good	Average	Good
Test Weight	Good	Good	Good	Average
Tillering Ability	High	Intermediate	Intermediate	Very High
Winter Hardiness	Excellent	Very Good	Average	Good
Yield Potential	Excellent	Very Good	Good	Excellent

All available public and private data used in compiling scores

This variety requires the use of Certified Seed Only.



Unauthorized seed multiplication prohibited by law.  
U.S. Plant Variety Protection Number has been granted.





## Strengthen your legacy



**Bred in collaboration** with the University of Nebraska



**Very good** performance under irrigation and dryland



**Excellent** straw strength with stem rust tolerance



**Top yielding** variety in west-central NE over 4 years

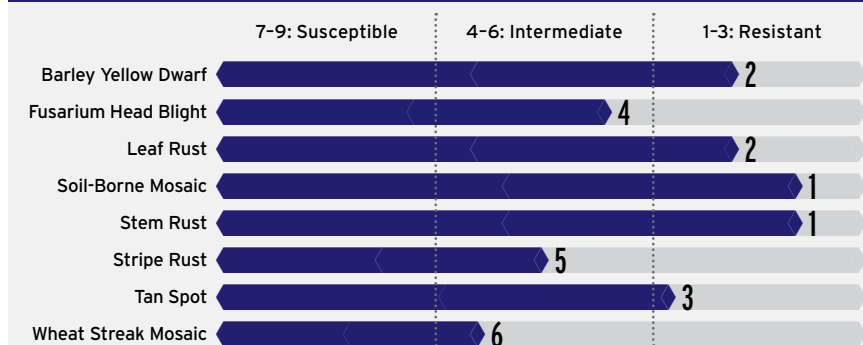
### HARD RED WINTER WHEAT

## LCS Link

ADAPTATION



#### DISEASE TOLERANCE



All available public and private data used in compiling scores

#### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Desirable	Desirable	Desirable

Data obtained from LCS Quality Laboratory

#### AGRONOMIC FEATURES

	LCS Link	WB Grainfield	Overland	SY Wolf
Acid Soil Tolerance	Tolerant	Mod. Tolerant	Susceptible	Mod. Susceptible
Coleoptile Length	Medium	Medium-Short	Medium	Medium
Drought Tolerance	Very Good	Very Good	Very Good	Very Good
Fall Grazing Potential	Good	Very Good	–	Average
Fall Ground Cover	Good	Good	–	Good
First Hollow Stem	Later Than Most	Intermediate	–	Intermediate
Height	Medium-Tall	Medium-Tall	Tall	Medium
Maturity	Late	Medium-Late	Late	Medium
Seed Size	Large	Medium	Medium	Medium
Shattering	Very Good	Very Good	Good	Very Good
Straw Strength	Excellent	Good	Good	Good
Test Weight	Very Good	Average	Good	Good
Tillering Ability	High	High	High	Intermediate
Winter Hardiness	Excellent	Very Good	Very Good	Very Good
Yield Potential	Excellent	Very Good	Good	Excellent

All available public and private data used in compiling scores



## Bred for the long haul



**Excellent** on variable soil types



**Excellent** leaf and stripe rust tolerance



**Very good** protein with broad adaptation



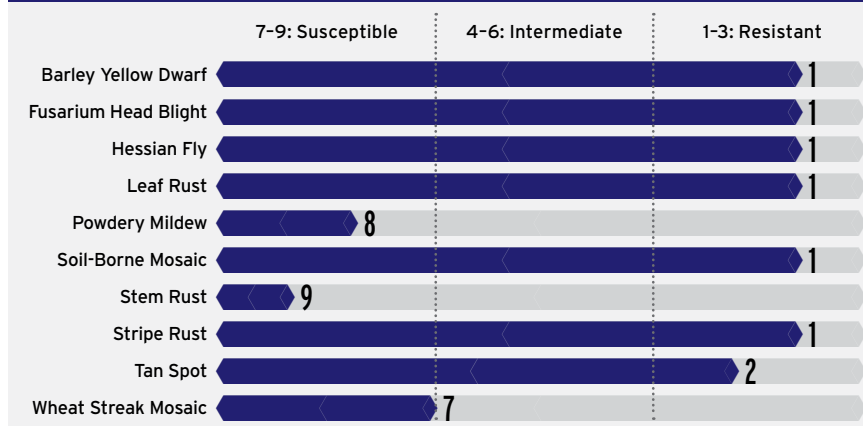
**Superior** straw strength

## HARD RED WINTER WHEAT LCS Chrome

ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Acceptable	Less Desirable	Acceptable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Chrome	Byrd	WB Grainfield	SY Monument
Acid Soil Tolerance	Tolerant	Mod. Tolerant	Mod. Tolerant	Tolerant
Coleoptile Length	Medium	Medium-Long	Medium-Short	Medium
Drought Tolerance	Very Good	Excellent	Very Good	Very Good
Fall Grazing Potential	Average	Average	Very Good	Good
Fall Ground Cover	Good	Good	Good	Good
First Hollow Stem	Later Than Most	Intermediate	Intermediate	Later Than Most
Height	Medium-Tall	Medium	Medium-Tall	Medium-Tall
Maturity	Medium-Late	Medium	Medium-Late	Medium-Late
Seed Size	Medium	Small	Medium	Medium
Shattering	Good	—	Very Good	Very Good
Straw Strength	Excellent	Good	Good	Average
Test Weight	Very Good	Average	Average	Good
Tillering Ability	High	Very High	High	Very High
Winter Hardiness	Very Good	Good	Very Good	Very Good
Yield Potential	Excellent	Excellent	Very Good	Excellent

All available public and private data used in compiling scores



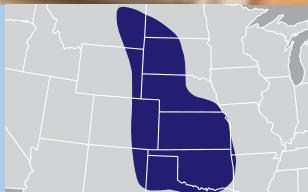


## HARD RED WINTER WHEAT

## LCS Mint

Almost as good as a license to print money!

ADAPTATION

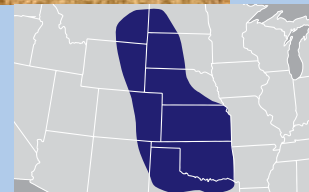


## HARD RED WINTER WHEAT

## T158

Dependable on-farm performance

ADAPTATION

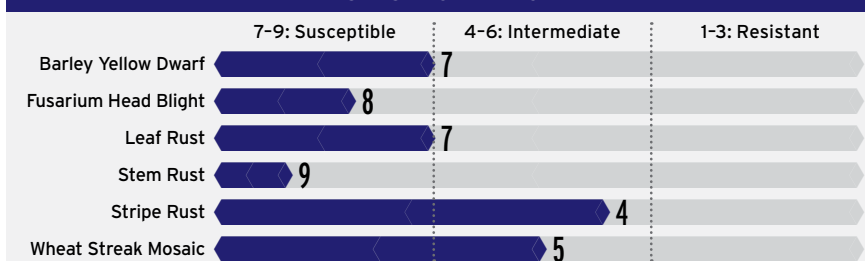


## AGRONOMIC FEATURES

	LCS Mint	SY Monument	TAM 111	Byrd
Coleoptile Length	Medium-Long	Medium	Long	Medium-Long
Drought Tolerance	Excellent	Very Good	Very Good	Excellent
Height	Medium-Tall	Medium-Tall	Medium-Tall	Medium
Maturity	Medium-Late	Medium-Late	Medium-Late	Medium
Straw Strength	Good	Average	Average	Good
Test Weight	Very Good	Good	Good	Average

All available public and private data used in compiling scores

## DISEASE TOLERANCE



All available public and private data used in compiling scores

## END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Less Desirable	Desirable	Desirable

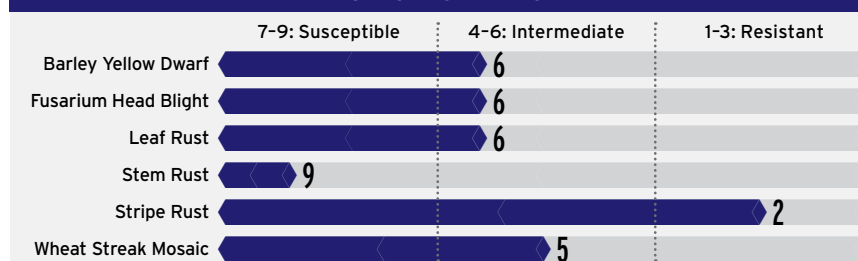
Data obtained from LCS Quality Laboratory

## AGRONOMIC FEATURES

	T158	Everest	TAM 111	Byrd
Coleoptile Length	Medium	Medium	Long	Medium-Long
Drought Tolerance	Excellent	Average	Very Good	Excellent
Height	Medium	Medium	Medium-Tall	Medium
Maturity	Medium-Early	Early	Medium-Late	Medium
Straw Strength	Good	Very Good	Average	Good
Test Weight	Good	Good	Good	Average

All available public and private data used in compiling scores

## DISEASE TOLERANCE



All available public and private data used in compiling scores

## END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Acceptable	Acceptable	Desirable

Data obtained from LCS Quality Laboratory

# GIVE WEEDS THE AX



## DEFEND YOUR FIELDS

WITH AN ARSENAL OF COAXIUM® HARD RED WINTER WHEAT VARIETIES BRED TO DESTROY GRASSY WEEDS



## Grow wheat, not weeds

**The solution for yield-robbing weeds you've been asking for is here. Certified seed is available this season, and we expect it to go fast.**

The CoAXium® Wheat Production System combines elite varieties and a patented non-GMO herbicide tolerance trait known as AXigen® with Aggressor® brand herbicides. This combination helps protect fields from annual and perennial grassy weeds that shrink yield through inter-crop competition and reduce overall crop quality.

Stewardship delivers cleaner fields and higher yields. To prolong the utility, features and benefits of CoAXium technology, growers must:

- Sign a CoAXium grower stewardship agreement
- Use Certified seed
- Use only labeled rates of Aggressor herbicides by weed species
- Prevent grassy weed escapes from going to seed
- Rotate herbicide modes of action between crop cycles
- Use CoAXium no more than two years in a row



The CoAXium hard red winter wheat varieties on the next few pages are part of the next generation of elite genetics from Limagrain Cereal Seeds. These game-changing lines have been tested and retested for trait tolerance, seedling vigor, disease resistance, adaptation and yield in a wide variety of growing conditions.

**Get serious about grassy weed control. Fetch your AX.**  
[LimagrainCerealSeeds.com/CoAXium](http://LimagrainCerealSeeds.com/CoAXium)





## Gains and grains



**Newest** CoAXium®  
release



**Top-notch**  
disease package



**Curl mite**  
resistance



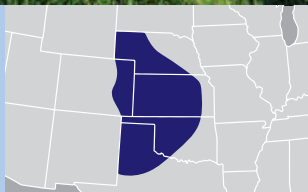
**Excellent**  
grazer

HARD RED WINTER WHEAT

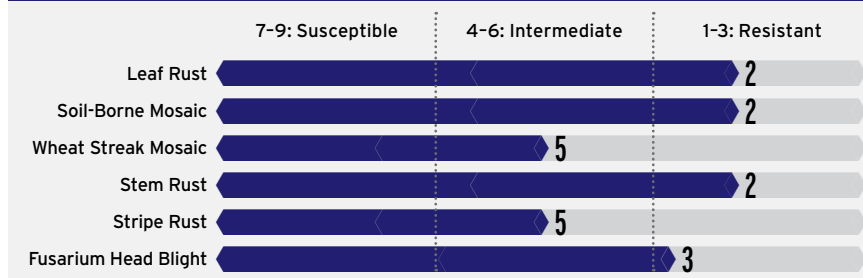
# LCS Galloway AX



ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Less Desirable	Acceptable	Acceptable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Galloway AX	SY AP18 AX	Crescent AX	DoubleStop CL+
Coleoptile Length	Medium	Medium-Long	Medium	Long
Drought Tolerance	Very Good	Good	Very Good	Good
Fall Grazing Potential	Excellent	Very Good	Good	Excellent
Fall Ground Cover	Good	Very Good	–	Very Good
Height	Medium	Medium	Medium	Tall
Maturity	Medium-Early	Medium	Early	Late
Protein	Very Good	Average	–	Excellent
Seed Size	Average	Average	Small	Large
Shattering	Very Good	–	–	Good
Straw Strength	Excellent	Good	Very Good	Very Good
Test Weight	Good	Average	Very Good	Very Good
Tillering Ability	Excellent	Very High	–	High
Winter Hardiness	Excellent	Average	Good	Very Good
Yield Potential	Excellent	Excellent	Above Average	Excellent

All available public and private data used in compiling scores



## Strong and steady



**Latest maturing**  
CoAXium® line



**Very good**  
straw strength  
and standability



**LCS Chrome-like**  
appearance



**Broad**  
adaptation

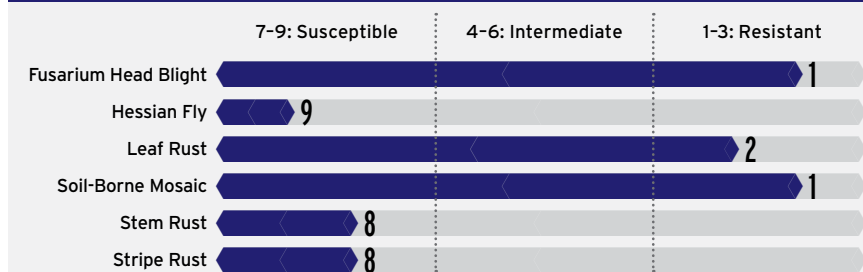
## HARD RED WINTER WHEAT LCS Steel AX



ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Acceptable	Desirable	Desirable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Steel AX	SY AP18 AX	Crescent AX	DoubleStop CL+
Coleoptile Length	Medium-Long	Medium-Long	Medium	Long
Drought Tolerance	Very Good	Good	Very Good	Good
Fall Grazing Potential	Excellent	Very Good	Good	Excellent
Fall Ground Cover	Excellent	Very Good	–	Very Good
First Hollow Stem	Later Than Most	–	–	–
Height	Medium-Tall	Medium	Medium	Tall
Maturity	Late	Medium	Early	Late
Protein	Average	Average	–	Excellent
Seed Size	Medium	Average	Small	Large
Shattering	Excellent	–	–	Good
Straw Strength	Excellent	Good	Very Good	Very Good
Test Weight	Very Good	Average	Very Good	Very Good
Tillering Ability	Very High	Very High	–	High
Winter Hardiness	Excellent	Average	Good	Very Good
Yield Potential	Excellent	Excellent	Above Average	Excellent

All available public and private data used in compiling scores

This variety requires the use of Certified Seed Only. A signed Stewardship Agreement is required before purchase.



Unauthorized seed multiplication prohibited by law.  
U.S. Plant Variety Protection Number has been applied for.



## Blast away grassy weeds



**Top CoAXium**  
performer in KS, OK, NE  
and CO



**Excellent**  
yield stability



**Quick emergence**  
and good grazer

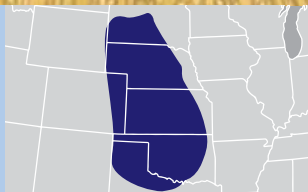


**Excellent**  
straw strength

## HARD RED WINTER WHEAT LCS Atomic AX



ADAPTATION



### DISEASE TOLERANCE



All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Unacceptable	Most Desirable	Less Desirable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Atomic AX	SY AP18 AX	Crescent AX	DoubleStop CL+
Coleoptile Length	Medium-Long	Medium-Long	Medium	Long
Drought Tolerance	Excellent	Good	Very Good	Good
Fall Grazing Potential	Excellent	Very Good	Good	Excellent
Fall Ground Cover	Excellent	Very Good	–	Very Good
First Hollow Stem	Intermediate	–	–	–
Height	Medium	Medium	Medium	Tall
Maturity	Early	Medium	Early	Late
Protein	Average	Average	–	Excellent
Seed Size	Large	Average	Small	Large
Shattering	Very Good	–	–	Good
Straw Strength	Excellent	Good	Very Good	Very Good
Test Weight	Good	Average	Very Good	Very Good
Tillering Ability	Intermediate	Very High	–	High
Winter Hardiness	Very Good	Average	Good	Very Good
Yield Potential	Excellent	Excellent	Above Average	Excellent

All available public and private data used in compiling scores



## Engineered to beat weeds



**National Wheat Yield**  
Contest winner



**Great choice**  
for dryland and  
irrigated acres



**Excellent** disease  
package

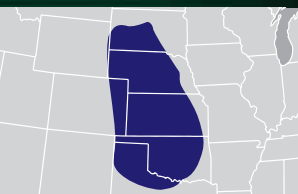


**Top-end**  
yield potential

### HARD RED WINTER WHEAT LCS Helix AX



ADAPTATION



#### DISEASE TOLERANCE



All available public and private data used in compiling scores

#### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Desirable	Most Desirable	Acceptable

Data obtained from LCS Quality Laboratory

#### AGRONOMIC FEATURES

	LCS Helix AX	SY AP18 AX	Crescent AX	DoubleStop CL+
Coleoptile Length	Medium-Long	Medium-Long	Medium	Long
Drought Tolerance	Excellent	Good	Very Good	Good
Fall Grazing Potential	Good	Very Good	Good	Excellent
Fall Ground Cover	Good	Very Good	–	Very Good
First Hollow Stem	Intermediate	–	–	–
Height	Medium	Medium	Medium	Tall
Maturity	Medium-Early	Medium	Early	Late
Protein	Very Good	Average	–	Excellent
Seed Size	Large	Average	Small	Large
Shattering	Very Good	–	–	Good
Straw Strength	Very Good	Good	Very Good	Very Good
Test Weight	Excellent	Average	Very Good	Very Good
Tillering Ability	Intermediate	Very High	–	High
Winter Hardiness	Very Good	Average	Good	Very Good
Yield Potential	Excellent	Excellent	Above Average	Excellent

All available public and private data used in compiling scores





## A quantum leap in weed eradication



**Excellent**  
grazer



**Excellent**  
dryland performance



**Highest protein**  
and test weight in the  
CoAXium® lineup

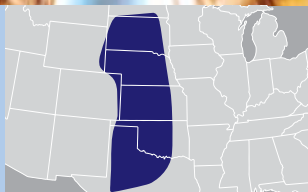


**Very good**  
FHB and stripe rust  
tolerance

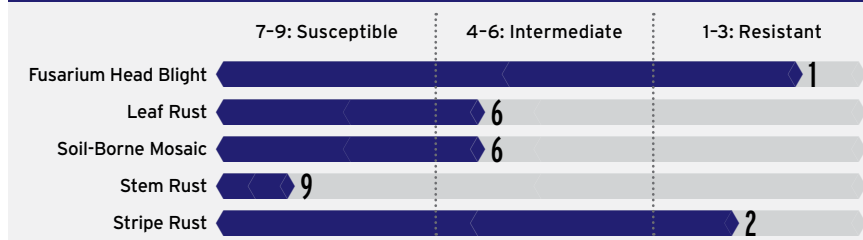
### HARD RED WINTER WHEAT LCS Photon AX



ADAPTATION



#### DISEASE TOLERANCE



All available public and private data used in compiling scores

#### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Desirable	Desirable	Most Desirable	Acceptable

Data obtained from LCS Quality Laboratory

#### AGRONOMIC FEATURES

	LCS Photon AX	SY AP18 AX	Crescent AX	DoubleStop CL+
Coleoptile Length	Medium	Medium-Long	Medium	Long
Drought Tolerance	Very Good	Good	Very Good	Good
Fall Grazing Potential	Excellent	Very Good	Good	Excellent
Fall Ground Cover	Excellent	Very Good	–	Very Good
First Hollow Stem	Intermediate	–	–	–
Height	Medium-Tall	Medium	Medium	Tall
Maturity	Medium-Early	Medium	Early	Late
Protein	Excellent	Average	–	Excellent
Seed Size	Large	Average	Small	Large
Shattering	Very Good	–	–	Good
Straw Strength	Good	Good	Very Good	Very Good
Test Weight	Excellent	Average	Very Good	Very Good
Tillering Ability	Very High	Very High	–	High
Winter Hardiness	Very Good	Average	Good	Very Good
Yield Potential	Very Good	Excellent	Above Average	Excellent

All available public and private data used in compiling scores

## Powerful weed control



**Two-gene resistance**  
to Aggressor® brand  
herbicides



**Proven  
performance**  
in the Central Plains



**Very good**  
drought tolerance



**Good**  
WSMV tolerance

## HARD RED WINTER WHEAT LCS Fusion AX



ADAPTATION



### DISEASE TOLERANCE

	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Barley Yellow Dwarf		5	
Fusarium Head Blight	9		
Hessian Fly	9		
Leaf Rust	8		
Powdery Mildew	9		
Soil-Borne Mosaic		6	
Stem Rust	9		
Stripe Rust	9		
Tan Spot		5	
Wheat Streak Mosaic		5	

All available public and private data used in compiling scores

### END-USE QUALITY

Overall Quality	Baking Quality	Dough Properties	Milling Quality
Acceptable	Less Desirable	Acceptable	Less Desirable

Data obtained from LCS Quality Laboratory

### AGRONOMIC FEATURES

	LCS Fusion AX	SY AP18 AX	Crescent AX	DoubleStop CL+
Coleoptile Length	Medium-Long	Medium-Long	Medium	Long
Drought Tolerance	Excellent	Good	Very Good	Good
Fall Grazing Potential	Good	Very Good	Good	Excellent
Fall Ground Cover	Excellent	Very Good	–	Very Good
First Hollow Stem	Intermediate	–	–	–
Height	Medium-Tall	Medium	Medium	Tall
Maturity	Medium	Medium	Early	Late
Protein	Average	Average	–	Excellent
Seed Size	Medium	Average	Small	Large
Shattering	Good	–	–	Good
Straw Strength	Average	Good	Very Good	Very Good
Test Weight	Below Average	Average	Very Good	Very Good
Tillering Ability	High	Very High	–	High
Winter Hardiness	Very Good	Average	Good	Very Good
Yield Potential	Very Good	Excellent	Above Average	Excellent

All available public and private data used in compiling scores



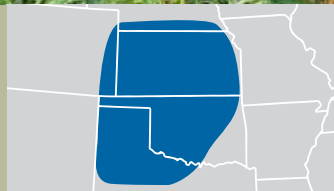


## FORAGE WHEAT

## T173

Make hay with T173

ADAPTATION



**High**  
tonnage potential



**Taller plant**  
stature with long,  
thin leaves



**Awnless**  
variety, ideal  
for grazing



**Excellent**  
tolerance to leaf rust



## FORAGE BARLEY

## LCS Saturn

A ringer for forage barley



**Excellent**  
straw strength



**Good option**  
for use in cover  
crop mixes



**Very good**  
stripe and leaf  
rust tolerance

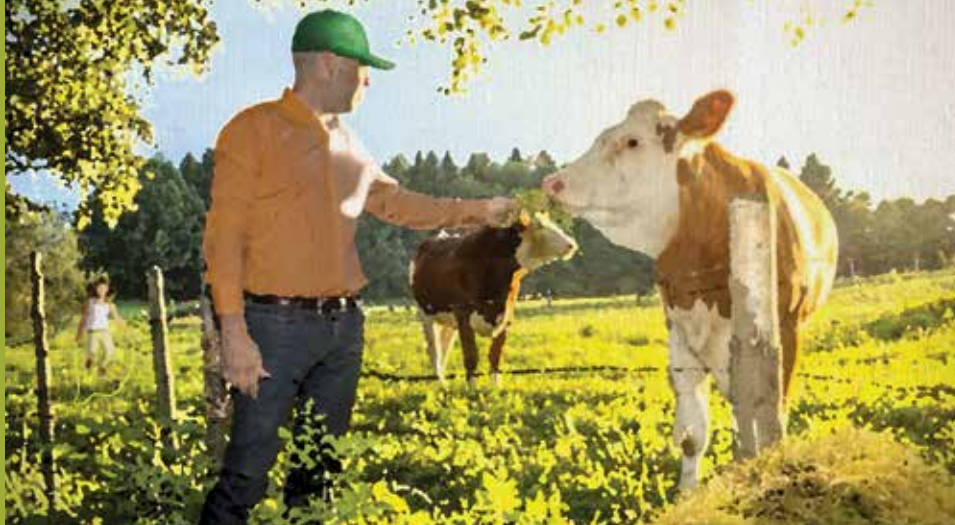


**Higher**  
than average  
protein content



LCS Saturn is an awned forage barley



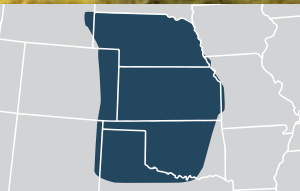


## TRITICALE

## LCS Bar

Raise the bar on forage yield

ADAPTATION



**Medium** height  
with **excellent**  
standability



**Excellent**  
tolerance to stripe, leaf  
and stem rust



**Good**  
leaf-to-stem ratio



**Very good**  
forage and grain yield



## Superior wheat quality

**Limagrain Cereal Seeds is the only private breeding program with a dedicated, state-of-the-art quality lab.** The LCS Quality Laboratory utilizes a comprehensive set of data, compiled over multiple years, to determine the end-use quality of all wheat varieties we release. Key attributes include:

**Baking quality**, including loaf volume, cookie diameter and dough rheology.

**Milling quality**, including flour yields and protein loss from grain to flour.

**Dough Properties**, including water absorption, gluten strength and percentage of protein content.

These characteristics are weighted and combined into a single score: baking quality (30%), dough properties (20%), milling quality (40%), test weight (5%) and Dough Properties (5%). Overall end-use quality is classified in one of four categories:

**Most Desirable.** Elite varieties with excellent intrinsic (kernel) qualities and a superior combination of milling, baking and dough properties.

**Desirable.** High-demand varieties with strong intrinsic qualities and very good to good milling, baking and dough properties.

**Acceptable.** One or more quality parameters may have minor flaws. Overall, these varieties are acceptable to end users.

**Less Desirable.** Varieties with quality parameters that are less than adequate for current end-user standards or a single critical flaw.



Nathan Miller &  
Dr. Marla Barnett

# Call us wheat geeks.

We consider it a badge of honor.

At LCS, we're *really* into wheat. When we're not knee-deep in the field, we're inspecting the newest crosses, pouring over trial data or testing flour in the quality lab. Our quest to bring the best wheat in the world to Central Plains farmers is all-consuming and never-ending. We wouldn't have it any other way.

Need to max out yield in your field? **Call us.**

☎ 316.737.7780