

# NORTHERN PLAINS SEED GUIDE



EDITION THREE

Hard Red Spring Wheat  
Hard Red Winter Wheat

Limagrain 

# Hello!

I'm excited to be representing LCS in the Northern Plains region. Inside this guide, you'll find proven hard red spring wheat and winter wheat varieties, including our fantastic CoAXium® varieties.

Agriculture has always been my passion. I grew up on my family's farm and have been in the seed industry since 2018. I've had the pleasure of seeing the satisfaction growers get when they experience a higher ROI from a variety first-hand. I believe in "Happy Farmer, Happy Life," and I look forward to working with you to bringing the right lines to your wheat acres!

## Zach Thibault

Regional Commercial Manager

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# Bred to thrive

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## Visit us 24/7

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



Agronomic, disease tolerance and quality scores in this guide are based on the most recent data available at the time of publication, March 2026. Visit **LimagrainsCerealSeeds.com** year-round to see the latest trial data.

# Northern Plains Varieties at a glance

Variety	Class	Maturity	Test Weight	Protein	Mill & Bake	Cropping System <small>IRR = Irrigated / DL = Dryland</small>	Winter Hardiness	Standability	Acid Soil	SBMV	WSMV	Stripe Rust	Stem Rust	Leaf Rust	FHB	BLS	CSO	Herbicide Tolerance	Solid Stem	
LCS Ascent	HRSW	Medium	2	4	Desirable	Irr, DL	MT	-	3	-	-	-	5	4	4	4	6	N	None	No
LCS Dual	HRSW	Medium	3	5	Acceptable	Irr, DL	MT	-	3	-	-	-	4	2	4	3	5	N	None	No
LCS Boom	HRSW	Med Early	2	2	Acceptable	Irr, DL	Med	-	2	-	-	-	3	3	3	3	4	N	None	No
LCS Buster	HRSW	Med Late	4	5	Acceptable	DL - Dryland	MT	-	5	-	-	-	3	2	3	3	4	N	None	No
LCS Cannon	HRSW	Early	2	3	Desirable	Irr, DL	MT	-	2	-	-	-	3	3	4	3	5	N	None	No
LCS Rebel	HRSW	Medium	2	2	Most Desirable	Irr, DL	MT	-	2	-	-	-	4	2	5	4	3	N	None	No
LCS Rimfire	HRSW	Medium	2	2	Acceptable	Irr, DL	Med	-	2	-	-	-	5	4	4	5	7	N	None	No
LCS Trigger	HRSW	Med Late	3	6	Less Desirable	Irr, DL	Tall	-	4	-	-	-	5	2	1	3	2	N	None	No
LCS Hammer AX	HRSW	Medium	2	2	Desirable	Irr, DL	Med	-	2	-	-	-	5	5	6	5	7	Y	CoAXium	No
LCS Julep	HRW	Early	3	3	Desirable	Irr, DL, Graze	Tall	1	3	3	1	3	7	4	4	7	-	N	None	No
LCS Helix AX	HRW	Early	1	2	Desirable	Irr, DL	MT	1	2	3	1	8	2	1	1	3	-	Y	CoAXium	No
LCS Warbird AX	HRW	Early	2	2	Desirable	Irr, DL, Graze	MT	1	2	2	2	3	2	9	2	3	-	Y	CoAXium	No
LCS Steel AX	HRW	Late	2	3	Acceptable	Irr, DL, Graze	MT	1	3	2	1	5	8	8	2	1	-	Y	CoAXium	No

1 = Excellent | 9 = Poor | "-" Insufficient Data



# High caliber performance



**High protein**  
with top end yield



**High**  
test weight



**Strong**  
straw



**Top yielder**  
in LCS internal trials  
across ND & MN

## HARD RED SPRING WHEAT

# LCS Rimfire

ADAPTATION



YIELD			
	BU/AC	LCS Rimfire	Trial Avg. MEAN
2024 LCS Trial Minot, ND	86.4	82.7	104% of mean
2024 LCS Trial Steele, ND	74.3	69.3	107% of mean
2024 LCS Trial Glyndon, MN	81.8	76.4	107% of mean
2024 LCS Trial East ND Average	89.7	79.3	113% of mean
2025 NDSU Eastern	81.9	82.0	100% of mean
2025 NDSU Western	64.6	63.1	102% of mean

PROTEIN			
	Protein %	LCS Rimfire	Trial Avg. MEAN
2024 Minot, ND	14.3	13.8	103% of mean
2024 Steele, ND	16.5	15.7	105% of mean
2024 Glyndon, MN	15.6	15.0	104% of mean

AGRONOMIC FEATURES					
	LCS Rimfire	AP Murdock	Brawn-SD	MN Rothsay	WB9590
Test Weight	64.0	63.8	65.9	65.0	63.9
Heading (Julian)	183	185	186	190	184
Plant Height (inches)	38	39	42	38	38
Straw Strength	Good	Good	Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight	5		
Bacterial Leaf Streak	7		
Stripe Rust	5		
Stem Rust	4		
Leaf Rust	4		

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Acceptable	Acceptable	Desirable	Acceptable

Data obtained from LCS Quality Laboratory



# Rocketing to market first

- Very early maturity**
- Superior disease package**
- Yield-protein balance**
- Builds on success of LCS Cannon**

## HARD RED SPRING WHEAT

# LCS Boom

ADAPTATION



YIELD			
	BU/AC	LCS Boom	MEAN
2024 NDSU Eastern	83.2		101% of mean
2024 NDSU Western	65.5		104% of mean
3-Year Avg. UMN North	96.0		97% of mean
3-Year Avg. UMN South	99.0		136% of mean
3-Year Avg. SDSU Central	58.7		98% of mean
2-Year Avg. SDSU Western	52.2		112% of mean

PROTEIN			
	Protein %	LCS Boom	MEAN
2024 NDSU State	14.0		101% of mean
2025 UMN	14.7		103% of mean
3-Year SDSU Central	15.1		107% of mean
2-Year SDSU Western	15.6		99% of mean

AGRONOMIC FEATURES					
	LCS Boom	AP Smith	MN Rothsay	ND Stampede	WB9590
Test Weight	60.3	58.7	59.0	58.0	58.2
Heading (days from planting)	56	60	61	58	58
Plant Height (inches)	33	32	31	34	30
Straw Strength	Very Good	Good	Good	Excellent	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight			3
Bacterial Leaf Streak			4
Tan Spot			3
Stripe Rust			3
Stem Rust			3
Leaf Rust			4

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Most Desirable	Desirable	Most Desirable	Desirable

Data obtained from LCS Quality Laboratory



# Take your yield to new heights



**Top-end yield**



**High test weight**



**Excellent disease package**

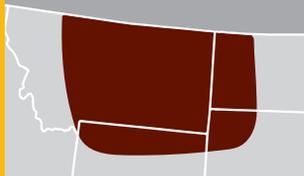


**Beautiful look**

## HARD RED SPRING WHEAT

# LCS Ascent

ADAPTATION



YIELD			
	BU/AC	LCS Ascent	MEAN
2025 NDSU Eastern	83.2	82.0	101% of mean
2025 NDSU Western	67.2	63.1	106% of mean
2-Year Avg. UMN Nort	105.0	104.5	100% of mean
2-Year Avg. UMN South	105.0	70.6	149% of mean
3-Year Avg. SDSU Central	61.0	60.1	101% of mean
2-Year Avg. SDSU Western	47.2	46.8	101% of mean

PROTEIN			
	Protein %	LCS Ascent	MEAN
2025 NDSU State	13.5	14.3	94% of mean
2025 UMN	13.8	14.3	97% of mean
3-Year SDSU Central	14.4	14.6	99% of mean
3-Year SDSU Western	15.3	15.7	97% of mean

AGRONOMIC FEATURES					
	LCS Ascent	AP Murdock	MN Torgy	ND Stampede	WB9590
Test Weight	59.3	58.6	59.8	58.0	58.2
Heading (days from planting)	56	58	59	58	58
Plant Height (inches)	33	33	34	34	30
Straw Strength	Good	Good	Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight	4		
Bacterial Leaf Streak	6		
Tan Spot	5		
Stripe Rust	5		
Stem Rust	4		
Leaf Rust	4		

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Desirable	Acceptable	Acceptable	Desirable

Data obtained from LCS Quality Laboratory



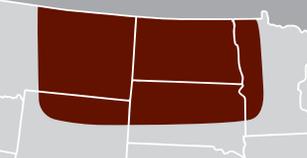
## Why not have both?

- Yield AND protein**
- Widely adapted**
- Excellent disease package**
- Exceptional straw**

### HARD RED SPRING WHEAT

# LCS Dual

ADAPTATION



YIELD			
	BU/AC	LCS Dual	MEAN
3-Year NDSU Eastern	74.9 75.7		99% of mean
3-Year NDSU Western	64.7 63.1		103% of mean
3-Year UMN North	98.0 98.8		99% of mean
3-Year UMN South	98.0 72.7		135% of mean
3-Year SDSU Central	59.7 60.1		99% of mean
3-Year SDSU Western	42.0 46.8		90% of mean

PROTEIN			
	Protein %	LCS Dual	MEAN
2024 NDSU State	13.8 13.9		99% of mean
2025 UMN	13.8 14.3		97% of mean
3-Year SDSU Central	14.3 14.6		98% of mean
2-Year SDSU Western	15.2 15.7		97% of mean

AGRONOMIC FEATURES					
	LCS Dual	AP Smith	MN Rothsay	ND Stampede	WB9590
Test Weight	58.7	58.7	59.0	58.0	58.2
Heading (days from planting)	58	60	61	58	58
Plant Height (inches)	34	32	31	34	30
Straw Strength	Very Good	Very Good	Very Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight		5	
Bacterial Leaf Streak		5	
Tan Spot		4	
Stripe Rust		4	
Stem Rust		2	
Leaf Rust		4	

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Acceptable	Less Desirable	Acceptable	Acceptable

Data obtained from LCS Quality Laboratory



# Bin-busting yield

- Trial-topping yield**
- Improved protein over LCS Trigger**
- Very strong straw**
- Good tolerance to head scab**

## HARD RED SPRING WHEAT LCS Buster

ADAPTATION



YIELD			
	BU/AC	LCS Buster	Trial Avg. MEAN
3-Year NDSU Eastern	79.1 75.7		<b>104%</b> of mean
3-Year NDSU Western	69.6 64.2		<b>108%</b> of mean
3-Year UMN North	111.0 98.8		<b>112%</b> of mean
3-Year UMN South	104.0 72.7		<b>143%</b> of mean
3-Year SDSU Central	62.7 60.1		<b>104%</b> of mean
2-Year Avg. SDSU Western	49.2 46.8		<b>105%</b> of mean

PROTEIN			
	Protein %	LCS Buster	Trial Avg. MEAN
2024 NDSU State	12.4 13.9		<b>89%</b> of mean
2025 UMN	12.5 14.3		<b>87%</b> of mean
3-Year SDSU Central	13.3 14.6		<b>91%</b> of mean
2-Year SDSU Western	14.9 15.7		<b>95%</b> of mean

AGRONOMIC FEATURES					
	LCS Buster	AP Murdock	MN Torgy	ND Stampede	WB9590
Test Weight	57.0	58.6	59.8	58.0	58.2
Heading (days from planting)	64	58	59	58	58
Plant Height (inches)	36	33	34	34	30
Straw Strength	Good	Good	Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight			<b>3</b>
Bacterial Leaf Streak			<b>4</b>
Tan Spot			<b>3</b>
Stripe Rust			<b>3</b>
Stem Rust			<b>2</b>
Leaf Rust			<b>3</b>

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
<b>Acceptable</b>	Acceptable	Less Desirable	Acceptable

Data obtained from LCS Quality Laboratory



# Bring the yield ... boom!

- Multi-Year Winner** at National Wheat Yield Contest in SD
- Excellent protein consistency**
- Very early maturity** quick emergence
- Strong straw** and test weight

## HARD RED SPRING WHEAT LCS Cannon

ADAPTATION



YIELD			
	BU/AC	LCS Cannon	Trial Avg. MEAN
3-Year NDSU Eastern	83.0 84.1		99% of mean
3-Year NDSU Western	59.5 62.1		96% of mean
3-Year UMN North	97.0 98.8		98% of mean
3-Year UMN South	98.0 72.7		135% of mean
3-Year SDSU Central	59.6 60.1		99% of mean
2-Year Avg. SDSU Western	46.6 46.8		100% of mean

PROTEIN			
	Protein %	LCS Cannon	Trial Avg. MEAN
2025 NDSU State	14.1 14.3		99% of mean
2025 UMN	14.5 14.3		101% of mean
3-Year SDSU Central	14.9 14.6		102% of mean
2-Year SDSU Western	15.6 15.7		99% of mean

AGRONOMIC FEATURES					
	LCS Cannon	AP Smith	MN Rothsay	ND Stampede	WB9590
Test Weight	60.0	58.7	59.0	58.0	58.2
Heading (days from planting)	56	60	61	58	58
Plant Height (inches)	32	32	31	34	30
Straw Strength	Very Good	Very Good	Very Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight			3
Bacterial Leaf Streak			5
Tan Spot			3
Stripe Rust			3
Stem Rust			3
Leaf Rust			4

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Desirable	Desirable	Desirable	Acceptable

Data obtained from LCS Quality Laboratory



# Blaze a trail to higher profits



**Quality check** for Wheat Quality Council



**Consistent protein and top-end yield**



**Proven Northern Plains performer**

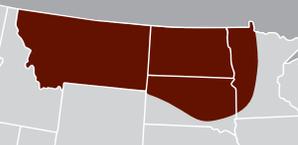


**Exceptionally wide adaptation**

## HARD RED SPRING WHEAT

# LCS Rebel

ADAPTATION



YIELD			
	BU/AC	LCS Rebel	MEAN
3-Year (2020-22) NDSU Eastern	73.6 71.4		103% of mean
3-Year (2020-22) NDSU Western	44.2 42.8		103% of mean
3-Year (2019-21) UMN North	101.0 100.4		101% of mean
3-Year (2019-21) UMN South	102.0 101.6		100% of mean
3-Year (2020-22) SDSU Eastern	50.9 54.2		94% of mean
3-Year (2020-22) SDSU Western	46.2 46.4		100% of mean

PROTEIN			
	Protein %	LCS Rebel	MEAN
2022 NDSU State	14.5 14.1		103% of mean
2-Year (2020-21) UMN	15.1 14.9		101% of mean
3-Year (2020-22) SDSU Eastern	16.1 15.2		106% of mean
3-Year (2020-22) SDSU Western	15.8 15.5		102% of mean

AGRONOMIC FEATURES					
	LCS Rebel	Lanning	ND Thresher	SY Ingmar	WB9590
Test Weight	62.3	59.2	58.3	59.8	60.1
Heading (days from planting)	48	51	48	44	45
Plant Height (inches)	33	33	30	28	27
Straw Strength	Very Good	Good	Good	Excellent	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight		4	
Bacterial Leaf Streak		3	
Tan Spot		4	
Stripe Rust		4	
Stem Rust		2	
Leaf Rust		5	

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Most Desirable	Desirable	Most Desirable	Most Desirable

Data obtained from LCS Quality Laboratory



# Pull the trigger on higher yields



**Blockbuster yield**  
year after year



**192% of mean**  
yield in UMN South  
3-year



**Top yielder**  
in MN and ND  
state trials



**Very strong**  
straw

## HARD RED SPRING WHEAT

# LCS Trigger

ADAPTATION



YIELD			
	BU/AC	LCS Trigger	MEAN
3-Year NDSU Eastern	81.6 75.7		108% of mean
3-Year NDSU Western	69.6 64.2		108% of mean
3-Year UMN North	109.0 98.8		110% of mean
3-Year UMN South	112.0 72.7		154% of mean
3-Year SDSU Central	66.2 60.1		110% of mean
2-Year Avg. SDSU Western	46.5 46.8		99% of mean

PROTEIN			
	Protein %	LCS Trigger	MEAN
2024 NDSU State	12.3 13.9		88% of mean
2025 UMN	12.1 14.3		85% of mean
3-Year SDSU Central	13.2 14.7		90% of mean
2-Year SDSU Western	15.3 15.7		97% of mean

AGRONOMIC FEATURES					
	LCS Trigger	AP Murdock	MN Torgy	ND Stampede	WB9590
Test Weight	59.1	58.6	59.8	58.0	58.2
Heading (days from planting)	65	58	59	58	58
Plant Height (inches)	36	33	34	34	30
Straw Strength	Good	Good	Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight			3
Bacterial Leaf Streak			2
Tan Spot			3
Stripe Rust			5
Stem Rust			2
Leaf Rust			1

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Less Desirable	Less Desirable	Less Desirable	Less Desirable

Data obtained from LCS Quality Laboratory

GIVE WEEDS THE AX



DEFEND  
YOUR  
FIELDS

Go home, downy brome. Set sail, foxtail. Take a pass, barnyardgrass. CoAXium hard red spring wheat is here and ready to destroy grassy weeds.



## Grow wheat, not weeds

The solution for yield-robbing weeds you've been asking for is here for spring wheat acres. Certified seed is available this season!

The CoAXium® Wheat Production System combines elite varieties and the patented non-GMO herbicide tolerance trait AXigen® with Aggressor® AX brand herbicides. This combination helps protect fields from Group 2-resistant grassy weeds that shrink yield through inter-crop competition and reduce overall crop quality.



Untreated downy brome

Treated with Aggressor AX

**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 only Certified seed
- Use only labeled rates of Aggressor AX 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 spring wheat LCS Hammer AX is part of the next generation of elite genetics** from Limagrain Cereal Seeds. This game-changing line has been tested and retested for yield, trait tolerance, seedling vigor, disease tolerance and adaptation in a wide variety of growing conditions.

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

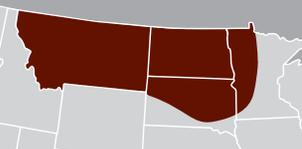


# Smash grassy weeds

- High-yielding**  
CoAXium variety
- Balanced**  
protein
- Early**  
maturing
- Good end-use**  
quality

## HARD RED SPRING WHEAT LCS Hammer AX

ADAPTATION



YIELD			
	BU/AC	LCS Hammer AX	MEAN
3-Year NDSU Eastern	75.3 75.7		99% of mean
3-Year NDSU Western	64.8 64.2		101% of mean
2025 UMN North	93.0 104.5		89% of mean
2025 UMN South	97.0 74.2		131% of mean
3-Year SDSU Central	58.4 60.1		97% of mean
2-Year Avg SDSU Western	45.9 46.8		98% of mean

PROTEIN			
	Protein %	LCS Hammer AX	MEAN
2024 NDSU State	13.7 13.9		99% of mean
2025 UMN	14.3 14.3		100% of mean
3-Year SDSU Central	14.7 14.6		101% of mean
2-Year SDSU Western	15.3 15.7		91% of mean

AGRONOMIC FEATURES					
	LCS Hammer AX	AP Smith	Ascend-SD	MN Rothsay	WB9590
Test Weight	58.2	58.7	59.0	58.0	58.2
Heading (days from planting)	58	60	61	58	58
Plant Height (inches)	33	32	38	31	30
Straw Strength	Excellent	Very Good	Very Good	Good	Very Good

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Fusarium Head Blight		5	
Bacterial Leaf Streak		7	
Tan Spot		6	
Stripe Rust		5	
Stem Rust		5	
Leaf Rust		6	

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Desirable	Acceptable	Acceptable	Acceptable

Data obtained from LCS Quality Laboratory





# What you can bet on



**National Wheat Yield Contest**  
winner



**Large head size**  
and good tillering  
ability



**Tolerant**  
to Hessian fly



**Broadly adapted**

HARD RED WINTER WHEAT

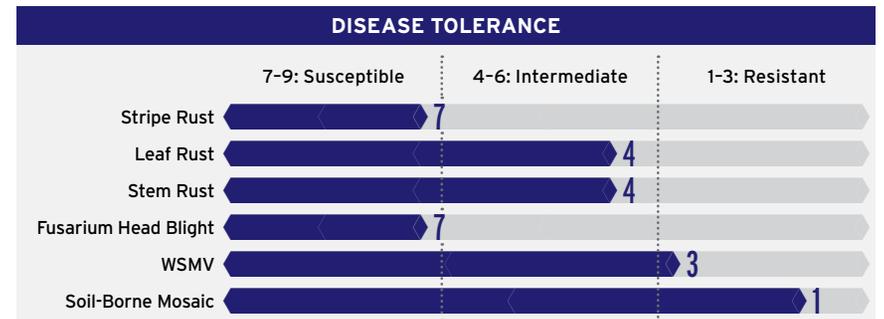
# LCS Julep

ADAPTATION



AGRONOMIC FEATURES					
	LCS Julep	CP7869	SY Wolverine	WB4422	Winner
Test Weight	60.0	62.0	62.5	63.4	62.4
Winter-Hardiness	Good	Good	Good-Excellent	Excellent	Good-Excellent
Heading	Med - Late	Early - Med	Med - Late	Med - Late	Medium
Plant Height (in.)	36	35	35	35	37
Straw Strength	Excellent	Good	Very Good	Excellent	Very Good

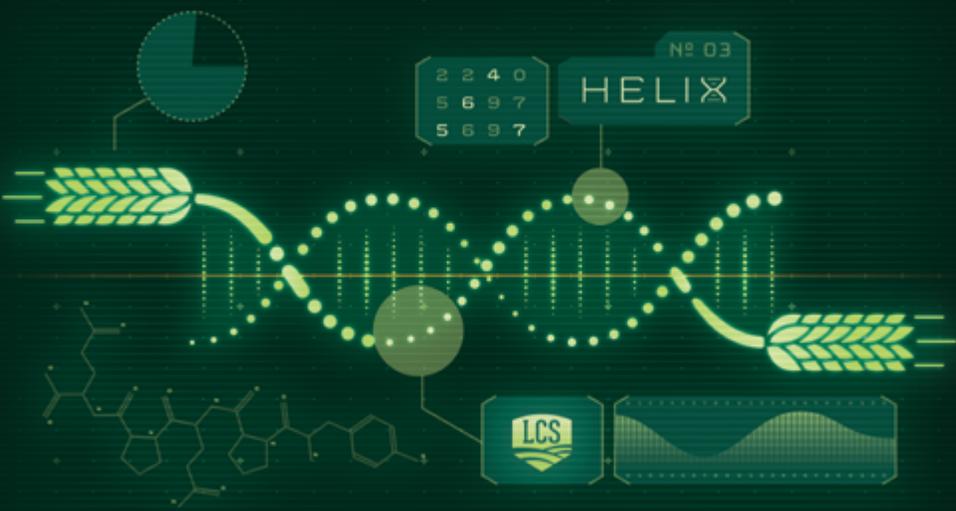
Data Sources: 2024 Wheat Varieties for Kansas and the Great Plains, 2023 LCS CP Y4 Master, 2023 Carnige



All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Dough Properties	Milling Quality
<b>Desirable</b>	Desirable	Desirable	Acceptable

Data obtained from LCS Quality Laboratory



# Engineered to beat weeds



**National Wheat Yield Contest**  
winner



**Superior**  
disease protection



**Top-end yield**  
with ability to handle  
tough acres



**Excellent**  
drought tolerance

## HARD RED WINTER WHEAT LCS Helix AX

ADAPTATION



YIELD			
	BU/AC	LCS Helix AX	Trial Avg. MEAN
3-Year SDSU Eastern	66.3 69.5		<b>95%</b> of mean
3-Year SDSU Central	65.0 66.6		<b>98%</b> of mean
3-Year SDSU Western	66.5 69.5		<b>96%</b> of mean
PROTEIN			
	Protein %	LCS Helix AX	Trial Avg. MEAN
3-Year SDSU Eastern	13.1 13.3		<b>98%</b> of mean
3-Year SDSU Central	12.9 13.1		<b>98%</b> of mean
3-Year SDSU Western	12.2 12.2		<b>100%</b> of mean

AGRONOMIC FEATURES					
	LCS Helix AX	AP 24AX	CP7017AX	Crescent AX	Kivari AX
Test Weight	62.4	61.5	61.9	62.6	61.1
Winter-Hardiness	Good	Good	Good	Good	Excellent
Heading	Medium-Late	Medium	Medium	Early - Med	Medium
Plant Height (in.)	38	37	34	38	36
Straw Strength	Very Good	Excellent	Very Good	Good	Fair

All available public and private data used in compiling scores

DISEASE TOLERANCE			
	7-9: Susceptible	4-6: Intermediate	1-3: Resistant
Stripe Rust			
Leaf Rust			
Stem Rust			
Fusarium Head Blight			
Wheat Streak Mosaic			
Soil-Borne Mosaic			

All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
<b>Desirable</b>	Desirable	Most Desirable	Acceptable

Data obtained from LCS Quality Laboratory





# Strong and steady



**National Wheat Yield Contest**  
winner



**Drought-tolerant**  
with top-end yield potential



**Excellent**  
Fusarium head blight tolerance



**Very good**  
straw strength and standability

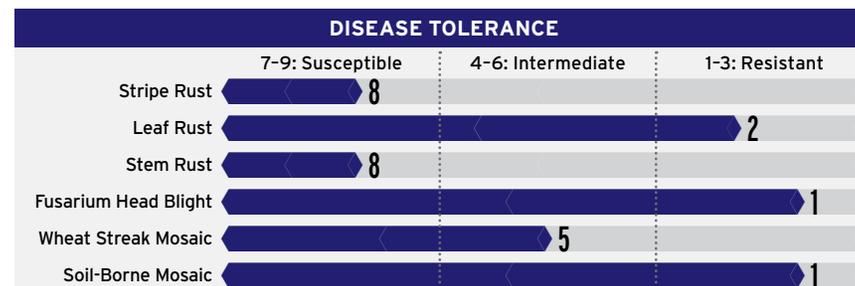
## HARD RED WINTER WHEAT LCS Steel AX

ADAPTATION



AGRONOMIC FEATURES					
	LCS Steel AX	AP 18AX	CP7017AX	Crescent AX	Kivari AX
Test Weight	60.2	58.8	59.5	59.6	58.0
Winter-Hardiness	Good	Good	Good	Good	Excellent
Heading	Medium	Medium	Medium	Early - Med	Medium
Plant Height (in.)	26	24	24	25	25
Straw Strength	Very Good	Excellent	Very Good	Good	Fair

All available public and private data used in compiling scores



All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Acceptable	Acceptable	Desirable	Desirable

Data obtained from LCS Quality Laboratory





# The weed control to take flight

**Excellent**  
yield potential

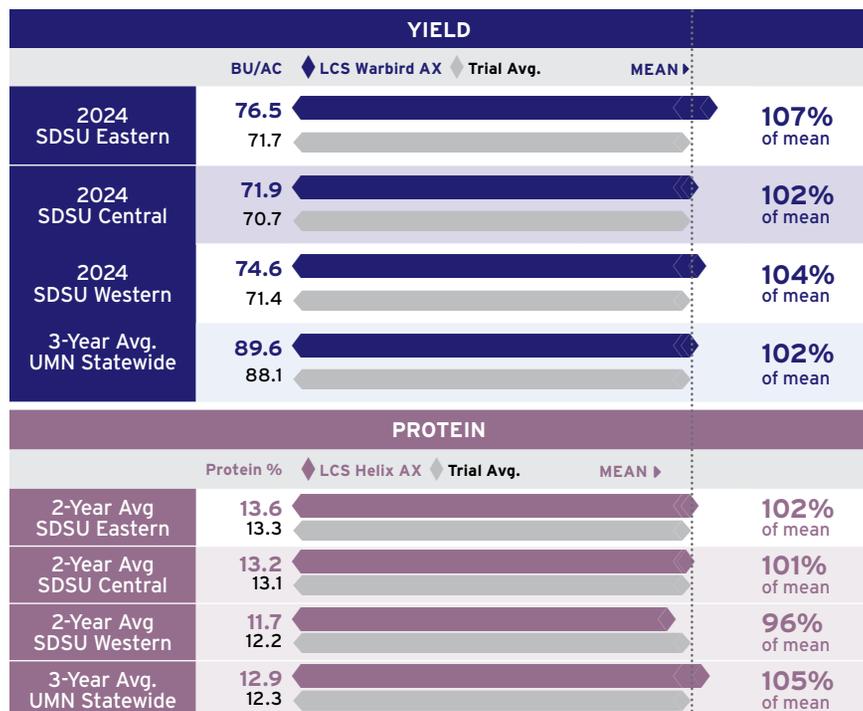
**Curl mite**  
resistance

**Solid**  
disease package

**Excellent**  
standability

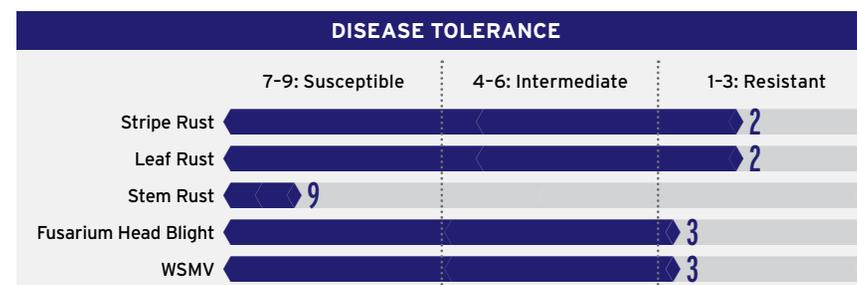
## HARD RED WINTER WHEAT LCS Warbird AX

ADAPTATION



AGRONOMIC FEATURES					
	LCS Warbird AX	AP 24AX	CP7017AX	Crescent AX	Kivari AX
Test Weight	61.7	60.9	59.9	61.0	60.9
Winter-Hardiness	Very Good	Good	Good	Good	Excellent
Heading	Medium	Medium	Medium	Early - Med	Medium
Plant Height (inches)	32	34	33	33	32
Straw Strength	Good	Excellent	Very Good	Good	Fair

Data Sources: 2024 Wheat Varieties for Kansas and the Great Plains, 2023 LCS CP Y4ACC, 2023 Carnige



All available public and private data used in compiling scores

END-USE QUALITY			
Overall Quality	Baking Quality	Flour Protein	Milling Quality
Desirable	Desirable	Acceptable	Desirable

Data obtained from LCS Quality Laboratory

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



## 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 flour protein (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.

## Looking for more?

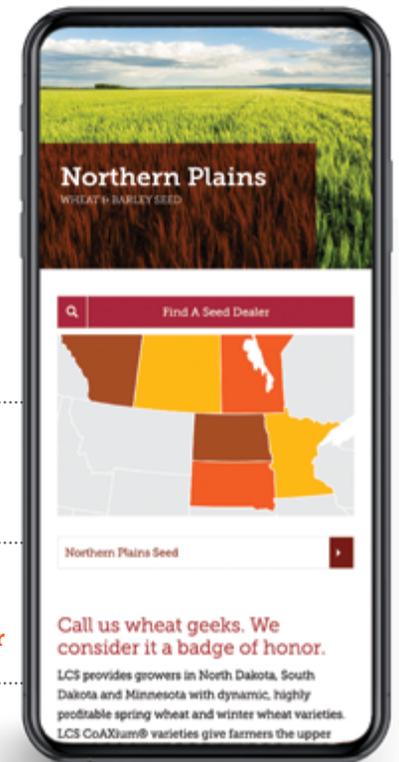
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# Game-changing new wheat genetics



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LCS Boom



LCS Ascent



LCS Rimfire

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