



2015 SEED PRODUCT GUIDE


NORTHERN
REGION



Seeds. Solutions. **Success.**

WestBred.com • (800) 705-2309





For years, WestBred® wheat has set the standard for the small grains industry. That's because, with WestBred wheat, you get more than just great seed products.

You get seed backed by one of the world's largest germplasm libraries. You reap the benefits of Monsanto's industry-leading breeding techniques through wheat with improved characteristics. You receive varieties that are locally tested and proven to perform where you farm. And, most importantly, you get high yield potential wheat seed for your farm.

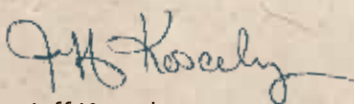
With all this comes the education, resources and experienced representatives necessary to help you reach your business goals. As we begin to offer more technological advances, we're excited about what lies ahead for wheat in 2015.

At WestBred wheat, we strive to be the premium brand in the wheat industry. And we'll continue to provide you with varieties that live up to your – as well as our – quality standards.

Here's to a great 2015 wheat harvest.



Sincerely,

A handwritten signature in blue ink that reads "Jeff Koscelny". The signature is fluid and cursive.

Jeff Koscelny
U.S. Wheat Commercial Lead

The WestBred logo features a stylized wheat stalk icon above the word "WestBred". "West" is in black and "Bred" is in red. A registered trademark symbol (®) is located to the upper right of the word "Bred".

SEEDS. SOLUTIONS. SUCCESS.

These three words represent what WestBred® wheat is all about, as well as the ways in which we can help you get the most out of your operation. Our **SEEDS** provide the innovative, cutting-edge technology you need for maximum yield potential. Our seed suppliers provide you with **SOLUTIONS** – backed by vast industry knowledge, experience and training – to face any opportunity or challenge. Through these, we help you achieve **SUCCESS**, year after year.

More than just words, this is our promise to you. Because at WestBred wheat, we're dedicated to your continued success.

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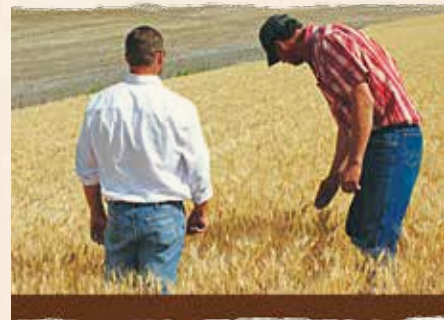
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WORTH OUR WHEAT IN **GOLD**



WestBred® wheat is the name farmers throughout the West have come to know and trust. You can depend on us to be your knowledgeable and trusted partner in the wheat industry.



WHY WESTBRED®



By providing varieties that are locally adapted, we're able to deliver a diverse selection of high-performing wheat varieties with the important characteristics you need – so you can get the most from your acres.

Our goal has always been to help farmers achieve high yield potential today – and over the long term. Now, with regional testing in place throughout the Northern region, we're able to do that for you – right in your backyard.





TOOLS FOR BETTER BREEDING

Over the years, WestBred® wheat has made a name for itself in breeding, which is the foundation for all WestBred wheat products. It is through breeding that the improvements in yield potential begin.



Rather than having breeders and technologies spread across multiple locations, people and processes were brought together at the new Wheat Technology Center in Twin Falls, Idaho, to improve the quality and speed of Monsanto's innovation in wheat.

With Monsanto providing WestBred wheat access to advanced breeding technologies and research capabilities, farmers all over the Northern region can now expect to get proven varieties with the important characteristics they want – faster. Breeding has always played a central role in agriculture, and now with the Wheat Technology Center, breeding is more important than ever when it comes to improving wheat yield potential on farms like yours.

INNOVATION



Name	Class	MANAGEMENT			PRODUCTION					
		Herbicide Tolerance	Maturity	Seeding Rate	Yield Potential	Plant Height	Winter Hardiness	Test Weight	Standability	
CDC FALCON	HRW	-	M	M	3	M	3	3	3	
WB-GRAINFIELD	HRW	-	M-L	M	1	M	3	4	3	
WB-MATLOCK	HRW	-	M	M	2	M-T	1	3	4	
WB4059CLP	HRW	CLP	E	M-H	3	S	2	3	1	

WB4059CLP • Hard Red Winter Wheat

- Very Good Yield Potential
- Excellent Standability
- Early Maturity
- Clearfield® Plus System



Characteristics

Plant Height: **Short**
 Maturity: **Early**
 Standability: **Excellent**
 Test Weight: **Very Good**
 Winter Hardiness: **Excellent**
 Milling/Baking Quality: **Good**

Pest and/or Disease Profile

Fusarium Head Blight (Scab)	7
Leaf Rust	6
Tan Spot	5
Foliar Disease	7

WB-GRAINFIELD • Hard Red Winter Wheat

- Excellent Yield Potential
- Good Drought Tolerance
- Very Good Winter Hardiness
- Good Disease Package

Characteristics

Plant Height: **Medium**
 Maturity: **Medium-Late**
 Standability: **Very Good**
 Test Weight: **Very Good**
 Winter Hardiness: **Very Good**
 Milling/Baking Quality: **Very Good**

Pest and/or Disease Profile

Fusarium Head Blight (Scab)	5
Leaf Rust	3
Stem Rust	4
Tan Spot	5
Foliar Disease	4



CERTIFIED SEED ONLY (CSO) varieties are designated as limited-use licensed products under the Monsanto

Wheat Seed Agreement and/or WestBred Wheat Seed Agreement. For more information on the Grower Licensing Data Reporting (GLDR) program, CSO election or purchaser property rights, please visit AgCelerate.com or WestBredSeeds.com.



CLASS

HRW Hard Red Winter
 HWW Hard White Winter
 SWW Soft White Winter
 SRW Soft Red Winter
 Durum Durum
 HRS Hard Red Spring
 HWS Hard White Spring
 SWS Soft White Spring

HERBICIDE TOLERANCE

CL Clearfield®
 CLP Clearfield® Plus
 CL+ Clearfield® Plus

MATURITY CODES

E Early
 M-E Medium-Early
 M Medium
 M-L Medium-Late
 L Late

SEEDING RATE

M Medium
 M-H Medium-High
 H High

NUMERIC RATING SCALE

1-2 Excellent
 3-4 Very Good
 5-6 Good
 7-8 Fair
 9 Poor
 * Current Data Not Available

PLANT HEIGHT

S Short
 M-S Medium-Short
 M Medium
 M-T Medium-Tall
 T Tall

INTELLECTUAL PROPERTY

Y Yes
 N No
 P Pending

QUALITY		PEST and/or DISEASE RESISTANCE					INTELLECTUAL PROPERTY				Name
Milling/Baking Quality	Foliar Disease	Fusarium Head Blight (Scab)	Leaf Rust	Stem Rust	Tan Spot	Plant Variety Protection	Limited Use License Agreement	Patent			
5	7	7	4	2	-	Y	N	N	CDC FALCON		
3	4	5	3	4	5	Y	N	N	WB-GRAINFIELD		
3	5	7	4	2	7	Y	N	N	WB-MATLOCK		
5	7	7	6	-	5	P	Y	Y	WB4059CLP		

WB-MATLOCK • Hard Red Winter Wheat

- Excellent Yield Potential
- Excellent Winter Hardiness
- Very Good Protein Potential
- Widely Adaptable

Characteristics

Plant Height: **Medium-Tall** Test Weight: **Very Good**
 Maturity: **Medium** Winter Hardiness: **Excellent**
 Standability: **Very Good** Milling/Baking Quality: **Very Good**

Pest and/or Disease Profile



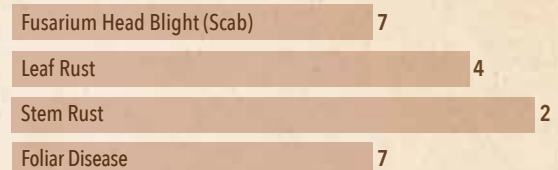
CDC FALCON • Hard Red Winter Wheat

- Very Good Yield Potential
- Wide Adaptability
- Very Good Winter Hardiness

Characteristics

Plant Height: **Medium** Test Weight: **Very Good**
 Maturity: **Medium** Winter Hardiness: **Very Good**
 Standability: **Very Good** Milling/Baking Quality: **Good**

Pest and/or Disease Profile



WINTER WHEAT



CLEARFIELD® PLUS BENEFITS

- Provides broad-spectrum grass and broadleaf weed control, meaning cleaner fields and greater yield potential
- Reduces dockage caused by weed seed in harvested grain
- Clearfield® Plus technology allows for split application of Beyond® herbicide (low rate in fall, full rate in early spring*)
- Reduces potential for grain discounts by managing tough-to-control annual grass weeds, resulting in a lower foreign matter percentage in grain

* Always consult your local BASF or retail chemical representative for complete Beyond herbicide label requirements.

MANAGEMENT

PRODUCTION

Name	Class	Herbicide Tolerance	Maturity	Seeding Rate	Yield Potential	Plant Height	Test Weight	Standability
BREAKER	HRS	-	M	M	2	M	1	4
GRANITE	HRS	-	M-L	M	2	M	1	1
SAMSON	HRS	-	M-E	M	2	S	3	1
VANTAGE	HRS	-	M-L	H	3	M	2	1
WB-DIGGER	HRS	-	M-E	M	3	M	3	4
WB-MAYVILLE	HRS	-	M-E	M-H	1	S	2	1
NEW WB9507	HRS	-	M	M	1	M	3	5
WB9879CLP	HRS	CLP	M-E	M	3	M-T	5	1

NEW

WB9507 • Hard Red Spring Wheat

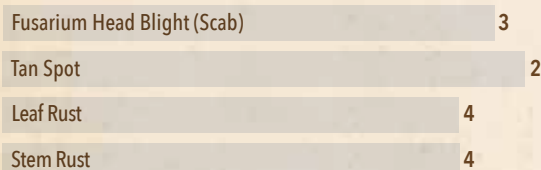
- Excellent Yield Potential
- Very Good Fusarium Head Blight Resistance
- Wide Adaptability
- Very Good Protein Potential



Characteristics

Plant Height: **Medium**
 Maturity: **Medium**
 Standability: **Good**
 Test Weight: **Very Good**
 Protein Content: **Very Good**
 Milling/Baking Quality: **Very Good**

Pest and/or Disease Profile



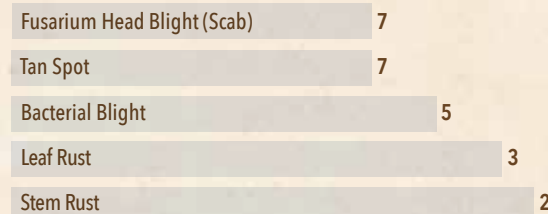
WB-MAYVILLE • Hard Red Spring Wheat

- Outstanding Straw Strength
- Excellent Protein Potential
- Excellent Yield Potential
- Improved Disease Package

Characteristics

Plant Height: **Short**
 Maturity: **Medium-Early**
 Standability: **Excellent**
 Test Weight: **Excellent**
 Protein Content: **Excellent**
 Milling/Baking Quality: **Very Good**

Pest and/or Disease Profile



CLASS

- HRW Hard Red Winter
- HWW Hard White Winter
- SWW Soft White Winter
- SRW Soft Red Winter
- Durum Durum
- HRS Hard Red Spring
- HWS Hard White Spring
- SWS Soft White Spring

HERBICIDE TOLERANCE

- CL Clearfield[®]
- CLP Clearfield[®] Plus
- CL+ Clearfield[®] Plus

MATURITY CODES

- E Early
- M-E Medium-Early
- M Medium
- M-L Medium-Late
- L Late

SEEDING RATE

- M Medium
- M-H Medium-High
- H High

NUMERIC RATING SCALE

- 1-2 Excellent
- 3-4 Very Good
- 5-6 Good
- 7-8 Fair
- 9 Poor
- * Current Data Not Available

PLANT HEIGHT

- S Short
- M-S Medium-Short
- M Medium
- M-T Medium-Tall
- T Tall

INTELLECTUAL PROPERTY

- Y Yes
- N No
- P Pending

	QUALITY		PEST and/or DISEASE RESISTANCE					INTELLECTUAL PROPERTY				Name
	Protein Content	Milling/Baking Quality	Bacterial Blight	Fusarium Head Blight (Scab)	Leaf Rust	Stem Rust	Tan Spot	Plant Variety Protection	Limited Use License Agreement	Patent		
	3	3	2	3	3	2	6	Y	N	N	BREAKER	
	1	2	7	6	6	4	-	Y	N	N	GRANITE	
	3	1	5	8	5	1	4	Y	N	N	SAMSON	
	1	5	7	5	5	3	6	Y	N	N	VANTAGE	
	3	5	5	6	4	2	4	Y	N	N	WB-DIGGER	
	1	3	5	7	3	2	7	Y	N	N	WB-MAYVILLE	
	3	3	-	3	4	4	2	P	Y	P	WB9507 NEW	
	2	5	-	6	7	2	4	P	Y	Y	WB9879CLP	

SAMSON • Hard Red Spring Wheat

- Excellent Yield Potential
- Excellent Standability
- Medium-Early Maturity
- Very Good Protein Potential

Characteristics

Plant Height: **Short** Test Weight: **Very Good**
 Maturity: **Medium-Early** Protein Content: **Very Good**
 Standability: **Excellent** Milling/Baking Quality: **Excellent**

Pest and/or Disease Profile



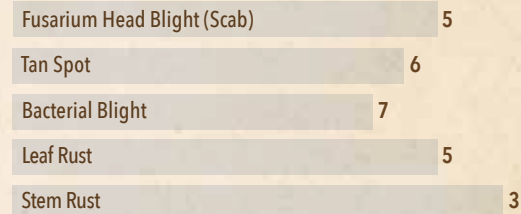
VANTAGE • Hard Red Spring Wheat

- Outstanding Protein Potential
- Very Good Yield Potential
- Excellent Standability
- Uniform Plant

Characteristics

Plant Height: **Medium** Test Weight: **Excellent**
 Maturity: **Medium-Late** Protein Content: **Excellent**
 Standability: **Excellent** Milling/Baking Quality: **Good**

Pest and/or Disease Profile



SPRING WHEAT



TECHNICAL PRODUCT MANAGERS, new to WestBred® wheat, will drive product and technology education to help you make the best decisions for your operation's overall success.

WB-DIGGER • Hard Red Spring Wheat

- Excellent Medium-Early Maturing Dryland Variety
- Very Good Standability
- Very Good Yield Potential
- High Tillering Potential

Characteristics

Plant Height: **Medium** Test Weight: **Very Good**
 Maturity: **Medium-Early** Protein Content: **Very Good**
 Standability: **Very Good** Milling/Baking Quality: **Good**

Pest and/or Disease Profile

Fusarium Head Blight (Scab)	6
Tan Spot	4
Bacterial Blight	5
Leaf Rust	4
Stem Rust	2

BREAKER • Hard Red Spring Wheat

- Excellent Yield Potential
- Very Good Protein Potential
- Very Good Standability
- Excellent Disease Package

Characteristics

Plant Height: **Medium** Test Weight: **Excellent**
 Maturity: **Medium** Protein Content: **Very Good**
 Standability: **Very Good** Milling/Baking Quality: **Very Good**

Pest and/or Disease Profile

Fusarium Head Blight (Scab)	3
Tan Spot	6
Bacterial Blight	2
Leaf Rust	3
Stem Rust	2

GRANITE • Hard Red Spring Wheat

- Excellent Yield Potential
- Outstanding Protein Potential
- Excellent Standability
- Uniform Plant Potential

Characteristics

Plant Height: **Medium** Test Weight: **Excellent**
 Maturity: **Medium-Late** Protein Content: **Excellent**
 Standability: **Excellent** Milling/Baking Quality: **Excellent**

Pest and/or Disease Profile

Fusarium Head Blight (Scab)	6
Bacterial Blight	7
Leaf Rust	6
Stem Rust	4

WB9879CLP • Hard Red Spring Wheat

- Very Good Yield Potential
- Excellent Standability
- Clearfield® Plus Technology
- Solid Stem for Wheat Stem Sawfly Resistance



Characteristics

Plant Height: **Medium-Tall** Test Weight: **Good**
 Maturity: **Medium-Early** Protein Content: **Excellent**
 Standability: **Excellent** Milling/Baking Quality: **Good**

Pest and/or Disease Profile

Fusarium Head Blight (Scab)	6
Tan Spot	4
Leaf Rust	7
Stem Rust	2

THE WHEAT TECHNOLOGY CENTER is the proving ground for wheat innovation and proof of Monsanto's commitment to the future of wheat.





CERTIFIED SEED is seed of a known variety that has passed field inspection and lab testing for varietal purity, which includes the absence of certain wheat seeds, other crop seeds and certain seed-borne diseases. When you purchase Certified Seed, you are purchasing the purest, highest quality, best germinating and highest yielding wheat seed available in the marketplace.

Let's consider a few important benefits of Certified Seed.

- **Minimize Agronomic Risks.** Planting professionally conditioned, quality seed of the most recently released varieties provides farmers a great opportunity to minimize certain agronomic risks, such as pests and diseases, and maximize yield potential.
- **Varietal Purity Results in Yield Potential.** While certification requirements vary by state, certain protocols – like rotation, isolation and quality grading – are standard among state certification programs. What does that mean for you? Varietal purity, which results in the best yield potential.
- **Invest in the Future of the Wheat Industry.** In order to bring about new technologies and improved wheat varieties, more needs to be done in the areas of research and development. When you buy Certified Seed, you are investing in the future of wheat.

CERTIFIED SEED



As a key member of our support team, Steve Sebesta partners with your local seed supplier to provide you with the education, resources and experience to help maximize your harvest.

Contact Steve for any of your wheat support needs:

Steve Sebesta
Regional Commercial Manager - Northern
(701) 730-3455
stephen.j.sebesta@monsanto.com

Ratings are 2013/2014 Monsanto Wheat Breeding Research Data. Individual results may vary and performance may vary from location and from year to year. The result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

PVP-94, PVP Title V and/or U.S. Patent have been granted or applied for on the featured and other WestBred brand varieties. For specific information and details, please visit WestBredSeeds.com.

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MWEST-15011

If a Patent number(s) is/are printed, this variety is patented. No license under said patent(s) is conveyed through purchase/bailment/transfer of the seeds unless and until purchaser has signed a Monsanto Wheat Seed Agreement and/or a WestBred® Seed Agreement or dealer invoice granting a limited use license to produce a single forage or grain crop for feeding or processing. Resale of this seed or supply of saved seed to anyone (including purchaser) for planting is strictly prohibited.

IF PVP STATUS IS NOT PROTECTED, THE STATEMENT BELOW APPLIES: Purchaser represents that he is obtaining the seed solely for the purposes of producing a grain, fiber or forage crop and that the seed, and any product from the seed, shall not be resold as seed or used for seed breeding purposes. The PVP logo is a registered mark of the American Seed Trade Association.



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