

What's New in Wheat Varieties

Spring 2016





AC® Carberry

AAC Brandon



AC Carberry
This is the first generation of the AC Carberry wheat. It is a hard red spring wheat with a high yield potential and excellent grain quality. It is a good choice for growers in the northern wheat belt of Canada.

SeCan
BW932

AC[®] Carberry

AAC Brandon

AAC Brandon CWRS

2015

- Parentage: Superb/CDC Osler//ND744
(AC Carberry Parentage: Alsen /Superb)
- Replacement for AC[®] Carberry
- Awned, Semi-dwarf
- Yield: 5% > AC[®] Carberry
- MR (Good) rating for FHB
- 1 cm shorter than AC[®] Carberry
- Maturity: ½ day < AC[®] Carberry
- Resistant to leaf, stem stripe rust





AAC Brandon – Elstow 2015

AAC Elie CWRS (2015)



- Short Stature
- Semi Dwarf
- Awned
- Strong I for FHB
- High TWT
- Sprouting = Fair
- High Yield
- Mid Protein
- Improved Leaf Spotting
- Sister to AAC Brandon



AAC Redwater CWRS

2016

- Parentage: AC Intrepid//Harvest/Mckenzie
- A better “Harvest”
- Early – 2 days earlier than AC Barrie
- Short, strong straw
- Yield: 102 to 105% > AC Barrie
- FHB: Intermediate (Fair)
- Very Good sprouting tolerance



The SeCan logo, featuring the word "SeCan" in white on a red background with a small white maple leaf icon.

AC[®] Stettler

AC[®] Stettler

The SeCan logo, featuring the word "SeCan" in white on a red background with a small white maple leaf icon.

PT457

AAC Redwater

The SeCan logo, featuring the word "SeCan" in white on a red background with a small white maple leaf icon.

Canada's Seed Partner

AAC Jatharia VB

midge tolerant CWRS (2017)

- Parentage: includes AC Kane, McKenzie, Grandin, Caldwell
- AC Unity VB replacement – stronger straw
- Awned
- Yield: 4% > AC[®] Unity VB
- One day later than AC[®] Unity VB
- FHB = Intermediate (Fair)
- High falling #



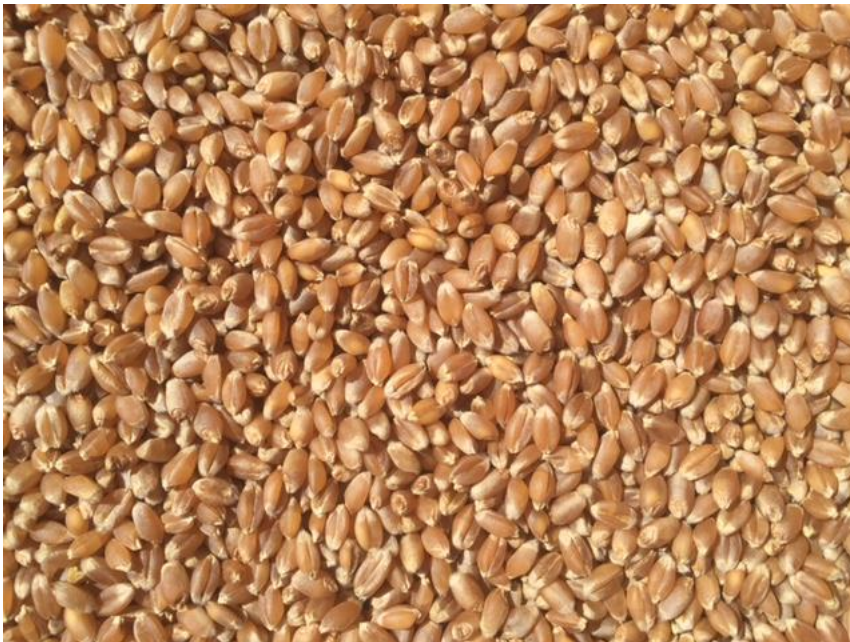
2011– 2013 Central Bread Wheat Coop

	Yield % Unity	Mat days	Height cm	Ldg 9=flat	Kernel Wt (mg)	2011-13 Grain Protein %	2011-13 Falling #
AC Unity VB	100	95	97	3.6	33.0	14.5	450
5603HR	94	97	97	2.4	31.7	14.3	440
AAC Jatharia VB	104	96	98	2.3	34.0	14.4	430

Superb = 37.2 mg seed size



AAC Prevail VB CWRS (Launching 2017)



- Midge Tolerant – Awnless
- 112 to 108% of Carberry
- High grade retention similar to Unity
- Good standability
- Good Sprout resistance
- Excellent protein retention
- Resistance to all rusts
- I for FHB
- Ht 20 cm > Carberry



AAC Prevail VB CWRS





AAC Brandon

CDC Bradwell



CDC Bradwell > AC
Stettler height

AC Stettler

CDC Bradwell CWRS (2017)

- Parentage includes: 5602HR & AC Elsa
- strong straw
- Egg laying deterrence against Midge??
- FHB = Intermediate (Fair)
- 3 cm taller than AC[®] Carberry
- 8 cm shorter than AC[®] Unity
- Awned, hollow stem
- 102% yield > AC[®] Carberry
- One day earlier than AC[®] Carberry



2011– 2013 Central Bread Wheat Coop

	Yield % Unity	Mat days	Height cm	Ldg 9=flat	Kernel Wt (mg)	2011-13 Grain Protein %	2011-13 Falling #
AC Unity VB	100	95	97	3.7	33.0	14.5	450
5603HR	94	97	97	2.6	31.7	14.3	440
Carberry 2013	93	100	86	1.5	34.8	13.9	420
CDC Bradwell	95	98	<u>89</u>	<u>1.6</u>	32.4	<u>14.7</u>	<u>450</u>

CDC Bradwell = 103% of Cardale 2011+12 Coop

CDC Bradwell = 102% of Carberry 2013 Coop

Superb = 37.2 mg seed size





AC® Stettler



CDC Bradwell

SeCan

BW472

CDC Bradwell

**NEW
2015!**

AAC Brandon

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- * 5% higher yielding than AC[®] Carberry
- * Good rating to FHB - the highest rating available
- * Excellent lodging resistance
- * Short straw - even shorter than AC[®] Carberry!
- * High protein

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AAC Brandon

SeCan

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CWRS wheat - Thorsby

University of Alberta
(Edmonton)

- 2016
- Early maturity with high yield
- R to stripe rust
- Awnless
- Yield 101% of Carberry
- FHB = Intermed
- Height 10 cm > Carberry

Let's GrowTM



CWRS – AAC W1876

AAFC (Swift Current)

- 2016
- Great milling quality
- Higher protein
- Short, strong straw
- Height 1 cm > Carberry
- Yield 98% of Carberry
- FHB = Intermed
- I.P. contracts available under Warburton program



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CWRS wheat – AAC Cameron VB

AAFC (Cereal Research Centre)

- 2017
- Midge-tolerant (Sm1 gene)
- Significantly better lodging
- Taller than AC Unity VB
- Yield 108 to 117% of Carberry
- FHB = Intermed



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CWRS wheat – AAC Connery

AAFC (Swift Current)

- 2017
- Awnless semi-dwarf
- Height 2 cm > Carberry
- Early maturity
- 4 days < Carberry
- Large, heavy seed
- FHB = MR
- Yield 93 to 101% of Carberry



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Other New CWRS Lines

- **CDC Titanium VB (Crop Prod Services)**
 - 2016
 - Midge Tolerant (awned) Yld 106 to 111% of Carberry
 - Shorter than AC Unity
 - MR for FHB
 - Fair for sprouting
 - (Bearded CDC Utmost with better FHB)





AAC Tradition



AC[®] Stettler

AAC Tradition (BW487)

- Classification: CNHR (not CWRS)
- Selected under “organic trials”
- FHB = Intermediate (Fair)
- 101% Yld > AC[®] Unity
- 8 cm shorter than AC[®] Unity
- Stronger straw than AC[®] Unity
- 4 days later than AC[®] Unity
- Top yield in 2013 Coop trials





SeCan
AAC Redwater

SeCan
BW487

AAC Redwater

AAC Tradition

Elgin ND

Interim Class (moving to CNHR)

- Available 2016 - FPGenetics
- Breeder: NDSU
- Yield 115 to 128% of Carberry
- 2 days earlier than Carberry
- Height 6 cm taller than Carberry
- FHB = Intermed
- Protein 0.9% < Carberry
- Lodging rated as “Good”
- CNHR: Canada Northern Hard Red





LD Seeds

AAC Penhold

SeCan

AAC Penhold

CPS Red Wheat 2016

- AAFC – Swift Current
- Shortest, strongest strawed CPS Red Wheat
- 108 to 114% of AC Carberry
- FHB = MR (Good)
- 2 days earlier than AC Carberry
- 0.5% to 1% higher protein than other CPS
- Very good resistance to sprouting, lodging





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AAC Penhold

PBR Protected



Thompson Family Seed Farms

Record yields with AAC Penhold

Building a 137 bushel CPS crop

It's the whole agronomic program that will allow farmers to push yields to new limits



By [Lee Hart](#) [FOLLOW](#)
Field Editor

Published: November 25, 2015
Cereals, Crops
1 Comment



Photo: Fred Wood

Achieving a 137 bushel per acre yield on CPS wheat in a relatively dry year is certainly noteworthy, but Fred Wood, an Alberta consulting agronomist says the real story is about the benefits of having a complete agronomy program.

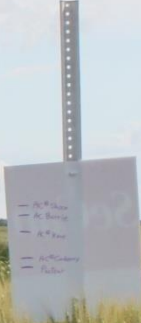
Varieties are important to some extent, says Wood who owns Meridian Ag Consulting, but the real key is a whole package of inputs and management, which makes it

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AAC Foray VB




AAC Penhold



HY1319 (not yet registered for sale) 

- * Short, strong strawed CPS red wheat
- * Finally, AC Foremost replacement!
- * Shorter, stronger straw than 5700PR
- * 6% higher yielding than 5700PR
- * Heavy test weight and large seed size
- * Medium maturity (two days earlier than 5700PR)
- * MR to FHB (good rating)

HY1610 (not yet registered for sale) 

- * Highest yielding CPS in Coop registration trials (119% of 5700PR, 108% of 5701PR)
- * Wheat midge tolerant
- * Straw strength intermediate = 5701PR
- * 7 cm taller than 5700PR
- * 1 day earlier maturing than 5700PR
- * Improved sprouting tolerance compared to 5700PR and 5701PR

NEW 2015! AAC F

- * High yield 105% of
- * Medium height for C
- * Two days earlier th
- * Very large kernel
- * R to leaf and stem

AAC Penhold

AAC Foray VB



AAC Foray VB

CPS Red Wheat 2016

- AAFC Winnipeg – Doug Brown
- Top Yield, Midge tolerant
- Refuge: AAC Penhold
- Yield 117 to 123% of Carberry
- FHB = Intermed
- 1 day < Carberry
- Height 8 cm > Carberry



CPSR wheat – AAC Crusader

AAFC (Lethbridge)

- 2017
- Yield 106% to 117% of Carberry
- 3 days earlier than Carberry
- 2 cm taller than Carberry
- Improved lodging
- R-rating to stem rust and leaf rust
- I-rating to FHB
- Developed under P4 agreement with AAFC and Alberta Wheat Commission









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AAC Tenacious VB (2017)

-  **R rated for FHB**
-  **R rated for Leaf Rust**
-  **R rated for Stripe Rust**
-  **R rated for Loose Smut**
-  **MR rated for Stem Rust**
-  **MR rated for Bunt**



AAC Tenacious VB (Launch 2017)

-  **Wheat Midge tolerance (sm1)**
-  **2 days earlier maturing than Carberry**
-  **25cm > Carberry**
-  **Yield 99 to 109% of Carberry**



AAC Current CWAD (2015)



- 102 to 96% of Strongfield
- Good standability
- Protein = Strongfield
- Resists root rot infection
- R to Stem and Leaf Rust
- Improved stripe rust resistance
- Very high test weight
- Good color retention
- FHB = MS



AAC Marchwell VB – midge tolerant durum

scoti
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AAC Marchwell VB Durum

- 2016
- Midge tolerant (refuge = AAC Raymore)
- Yield 99 to 103% > AC[®] Strongfield
- Parentage: Strongfield, Kyle, Napoleon, Navigator, Caldwell
- Maturity, Ht, = AC[®] Strongfield
- Slightly weaker straw than AC[®] Strongfield
- FHB = MS (Poor)



AAC Spitfire (DT844)

- 2017
- Hollow stem – AC Strongfield replacement
- Yield; 110 to 114% yld > AC[®] Strongfield
- Stronger Straw than AC Strongfield
- Maturity, Height = AC[®] Strongfield
- 0.6% < protein than AC[®] Strongfield
- FHB = Susceptible (Very Poor)





AAC Spitfire (DT844)

AAC Raymore

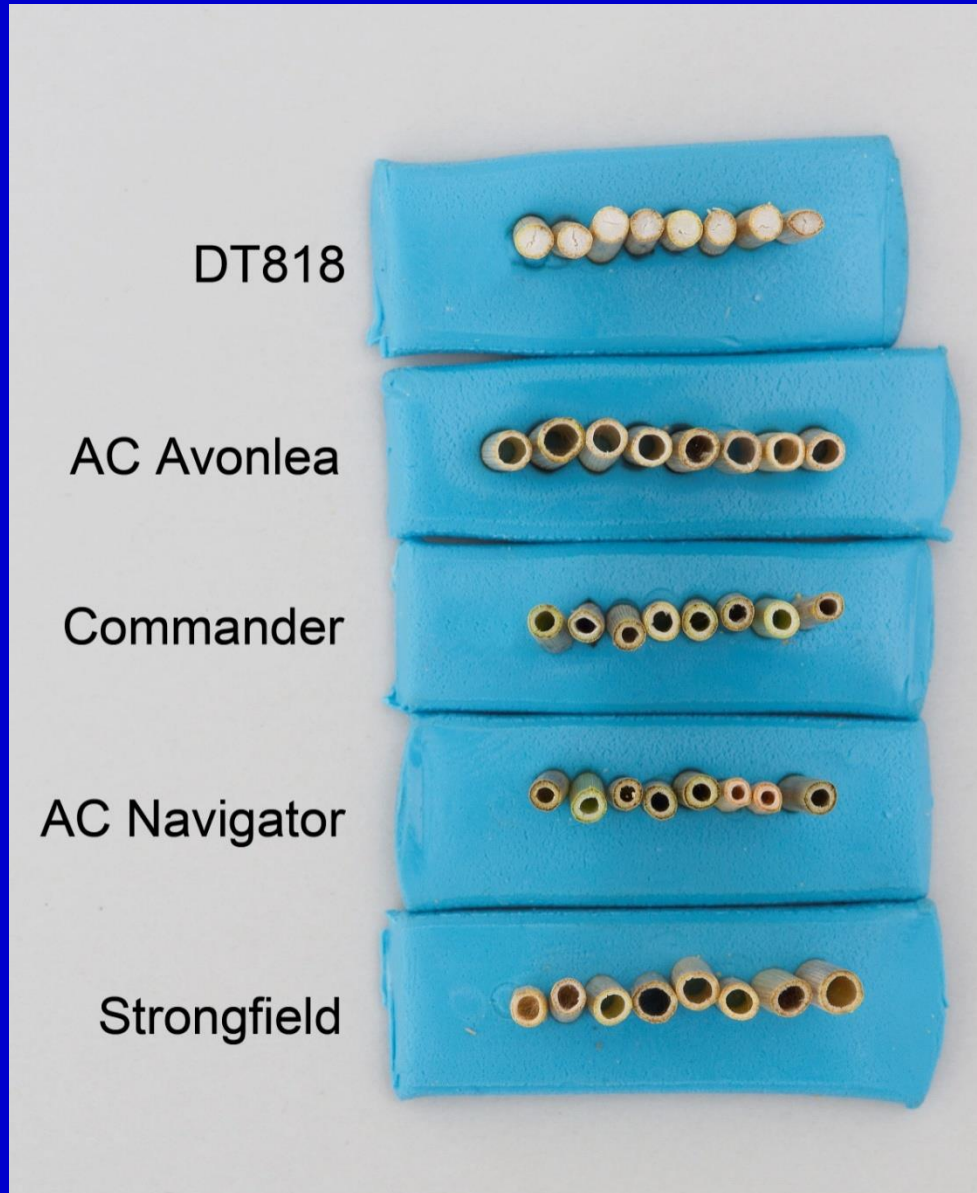


AC[®] Strongfield



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AAC Raymore CWAD



AAC Cabri (DT840)

- **2018**
- Solid Stem (Sawfly Tolerant)
- Yield 107 to 103% > AC[®] Strongfield
- 1 day later than AC[®] Strongfield
- Lodging = AC[®] Strongfield
- 3 cm taller than AC[®] Strongfield
- 0.4% < Protein than AC[®] Strongfield
- FHB = Moderately Susceptible (Poor)





AAC Cabri

AAC Raymore

CWAD – AAC Congress

AAFC (Swift Current)

- 2018
- Yld 109 – 105% > Stgfld
- 1 day later than Strongfield
- 3 cm taller than Strongfield
- Lodging similar to Strongfield
- Test weight similar to checks
- Reduced DON accumulation
- FHB = Mod Susceptible



Canada 

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Other New Durum Lines

- **CDC Fortitude** – (Crop Prod Services)
 - 2016
 - Yield 105% of Strongfield
 - Good lodging resistance
 - FHB = MS




- **CDC Carbide VB** (Crop Prod Services)
 - 2017
 - Midge Tolerant
 - Yield 108 to 110% of Strongfield
 - Maturity, Height = Strongfield




CDC Precision CWAD (Launch 2018)



NEW PLATEAU IN DURUM YIELD

-  112% of Strongfield,
-  125% Navigator,
-  105% Spitfire

 Maturity = Strongfield

CDC Precision CWAD

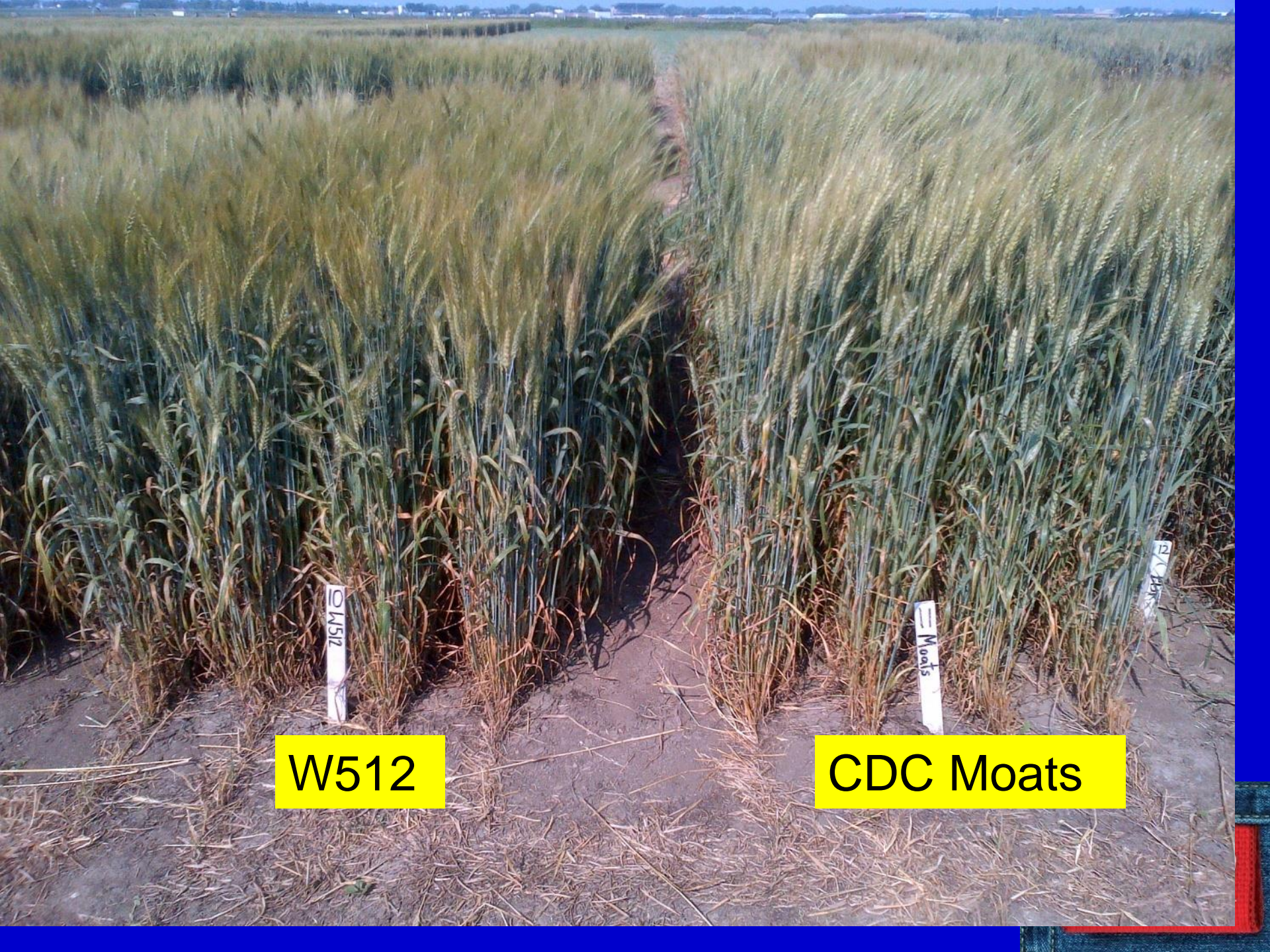


- Standability better than Strongfield (2.0 vs 2.9),
Brigade (2.1), Navigator (1.9)
- Height – 2.5 inches shorter than Brigade
- FHB = MS

Other New Durum Lines

- **CDC Alloy** – (FP Genetics)
 - 2018
 - Yield 111 to 113% of Strongfield
 - Good lodging resistance
 - FHB = MS, lower protein than Strongfield
- **CDC Dynamic** (Crop Prod Services)
 - 2018
 - Yield 111 to 107% of Strongfield
 - Maturity, Height = Strongfield
 - FHB = MS, Higher protein than Strongfield
- **CDC Precision** (Alliance Seed Corp)
 - 2018
 - Yield 113 to 118% of Strongfield
 - Maturity = Strongfield, 4 cm taller than Strongfield
 - FHB = MS, lower protein than Strongfield





W512

CDC Moats



AAC Wildfire

- Targeted for CWBW class
- Best adapted to western Prairie region
- Very high grain yield (Riallant +12%)
- Very good winter survival
- Moderate height, very strong straw
- Light maturity
- Milling Rate = 8.5 Leaf Area = 3
- Strigal Root = 1 FHB = 5/5
- Complex root = 5/5 RWK resistant
- Improved leaf spot resistance
- Improved protein cont. (Riallant +0.3%)

Experimental Name: W15-11-004
 Percentage: 98% Canada, 2% US
 Marketed by: CIMAX
 Breeder: CIMAX
 Released in 2010
 Projected availability in fall 2014

Cornwall

AAC Wildfire Lethbridge 2015





Radiant

AAC Wildfire

AAC Elevate

AAC Wildfire (W512)

Hard Red Winter

- **Available fall 2018**
- Parentage: L99-1236 X AC Bellatrix
- SK and AB adaptation (AC Radiant adaptation)
- Grain yield Coop: 109% > Radiant, 109% > Moats
- **SK Yld = 116% of CDC Buteo**
- Short, strong straw (5 cm < Radiant)
- FHB = MR (Good)
- Russian Wheat Aphid resistant
- Susceptible to stem and leaf rust, inferior to Moats



AAC Wildfire (W512)

Hard Red Winter

- Stripe rust resistant
- Bronze Chaff
- Good winter survival
- Later maturity
- Medium height
- Excellent lodging resistance



2012– 2014 Western Winter Wheat Coop

	Yield % Moats	Winter Survival (%)	Mat days	Height cm	Ldg 9=flat	Kernel Wt (mg)	Grain Protein %
Moats	100	84	218	98	3.0	31.9	12.4
Radiant	100	84	220	96	2.1	33.4	11.6
Flourish	102	85	215	86	2.3	34.4	12.2
AAC Elevate	104	83	218	90	2.4	36.6	11.8
W512	<u>109</u>	<u>85</u>	221	<u>92</u>	<u>2.3</u>	34.9	11.9



AAC Innova CWGP



- **High yields, 131% of CWRS check**
- **Good Straw Strength**
- **Improved Threshing efficiency**
- **-3 days maturity vs Pasteur**

AAC Indus

Soft White Wheat (SWS 427)

- Available spring 2018
- Parentage: Sadash/SWS340
- 109% yield > AC Andrew
- Height, Maturity > AC Andrew
- Lodging = AC Andrew
- Susceptible: stem rust, bunt, loose smut
- FHB = Mod Suscept (Poor)
- Stripe rust = Resistant



2011– 2013 Soft White Wheat Coop

	Yield % AC Andrew	Yield % AC Andrew (dryland)	Mat days	Height cm	Ldg 9=flat	Kernel Wt (mg)	2011-12 Grain Protein %
AC Reed	89	85	104	85	2.6	35.4	11.5
AC Andrew	100	100	106	89	2.4	37.1	11.7
Sadash	105	102	106	92	2.4	37.9	11.6
AAC Indus	<u>109</u>	106	<u>108</u>	<u>95</u>	2.4	39.5	11.8



SeCan
Pasteur

Pasteur

SeCan
KWS Belvoir VB

Belvoir VB

2013– 2014 General Purpose Wheat Coop

	Yield % Andrew	Mat days	Height cm	Ldg 9=flat	Test Wt (kg/hl)	Kernel Wt (mg)	2014 Grain Protein %
AC Andrew	100	98	90	1.4	71.1	34.0	11.2
Pasteur	96	102	93	1.3	74.5	37.1	11.8
KWS Belvoir	98	104	86	1.2	64.9	35.8	11.3

