

Manitoba Agriculture Variety Guide

BARLEY

New for 2021

Variety	Type	Code	Breeder	Distributor	Seed Availability
AB BrewNet	Malting - 2 Row	TR16629	Patricia Juskiw, FCDC	SeedNet	2023
AB Wrangler	Food and Feed - 2 Row	TR17639	Patricia Juskiw, FCDC	Canterra Seeds	
AB Tofield	Food and Feed - 6 Row	SR17515	Joseph Nyachiro, FCDC	SeCan	2022
Esma	Food and Feed - 2 Row	SC18-032RB	Ackermann Saatzzucht GmbH & Co. KG	SeCan	2021
KWS Kellie	Food and Feed - 2 Row	SC18-042RB	KWS LOCHOW GMBH	SeCan	

Comments:

Malting barley varieties are classified into two groups. The **“Malting: Acceptance - Recommended”** group are varieties with recommended market acceptance as listed in the Canadian Malt Barley Technical Centre (CMBTC) publication “2020/21 Recommended Malting Barley Varieties” on page 26. The category of “Malting: Other” includes varieties not currently recommended by the CMBTC but markets may exist.

The two-row malting varieties **CDC Goldstar**, **CDC PolarStar** and **CDC PlatinumStar** are available through closed loop, identity preserved programs.

The hulless variety **CDC Clear** is a malting type.

It is strongly recommended for producers to use a combination of the Canadian Food Inspection Agency's **List of Registered Varieties** (www.inspection.gc.ca) and the Canadian Grain Commission's Variety Designation Lists (www.grainscanada.gc.ca) to determine the registration and grade eligibility status of varieties.



- ✓ Bankable Quality
- ✓ Excellent Yields
- ✓ Earliest Maturity
- ✓ Best ratings for Fusarium
- ✓ Shorter straw with good lodging rating



“The trusted high energy barley that gets your stock to market faster”

“We believe Conlon barley is still the variety you can depend on to consistently deliver low enough DON to feed hogs & it's your plumpest rolling barley!”

For best results choose Certified Seed.”

Walter Smith

Avondale Seed Farm	204-877-3813	Walter Smith	204-825-2000	Rutherford Farms	204-467-5613
Boissevain Select Seeds	204-534-6846	HB Agri-Seed Ltd.	204-523-7464	R-Way Ag	866-398-9643
Catellier Seed Service	204-347-5588	James Farms	204-222-8785	Seine River Seed Farm	204-355-4495
Clearview Acres	204-748-2666	Jeffries Seed Service	204-827-2102	Sierens Seed Service	204-744-2883
Court Seeds	204-386-2354	Manness Seeds	204-736-2622	Swan Valley Seeds	204-734-2526
Durand Seeds	204-248-2268	MB Seeds	204-746-4652	Triple “S” Seed	204-546-2590
Ellis Farm Supplies	204-824-2290	Miller Agritec	204-267-2363	Westman Aerial Spray	204-763-8998
Ens Quality Seed	204-325-4658	Nickel Bros	204-773-6734	Wheat City Seeds	204-727-3337
Friesen Seeds	204-746-8325	Pitura Seed Service	204-736-2849	Wilson Seeds Ltd.	204-246-2119
Gagnon Seed Service	204-447-2118	Pugh Seeds	204-274-2179	Zeghers Seed Farm	204-526-2145
		Redsper Enterprises	204-328-5346		

BARLEY (continued)

Variety Descriptions

Category / Variety ¹	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 88 days	Height +/- 89 cm	Test Wt +/- 48.7 lb/bu	Rough or Smooth Awns	Resistance Level:									
								Lodging	Loose Smut	Surface -borne Smut	Root Rot	Netted Net Blotch	Spotted Net Blotch	Spot Blotch	Stem ² Rust	Fusarium ³ Head Blight	
Malting: Acceptance - Recommended																	
AAC Connect (2)⚡	41	106	12.4	0	-3	-0.5	R	G	S	R	MS	I	MR	MR	MR	MR	MR
AAC Synergy (2)⚡	44	113	12.2	0	-2	-0.4	R	G	S	I	I	MR	R	R	MR	I	I
AC Metcalfe (2)	217	97	12.9	0	0	0	R	F	R	I	I	S	I	I	MR	I	I
CDC Bow (2)⚡	50	105	12.1	1	3	0.5	R	G	S	I	MS	S	MR	I	MR	MS	MS
CDC Copeland (2)	51	98	12.4	0	5	-0.5	R	F	MS	I	I	I	I	S	MR	I	I
CDC Fraser (2)⚡	38	108	12.1	1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	MR	I	I
Malting: Other																	
AAC Goldman (2)⚡	56	107	12.6	1	3	-0.4	R	F	MS	I	S	I	R	I	I	MR	MR
AB BrewNet (2)⚡	18	108	12.8	3	5	0	—	G	MS	MR	—	MS	I	I	MR	MR	MR
Bentley (2)⚡	41	103	12.4	0	5	-0.8	R	G	MS	MR	I	MS	R	I	MR	I	I
CDC Churchill (2)⚡	31	110	12.2	1	-5	-0.2	R	G	MS	MR	—	MR	MR	I	MR	MS	MS
CDC Copper (2)⚡	31	106	12.3	1	-5	-0.7	R	G	I	MR	MR	MR	MR	I	I	MS	MS
CDC Goldstar (2)⚡	14	105	12.4	0	0	0	R	G	I	R	S	I	MR	I	I	MS	MS
CDC Kindersley (2)⚡	34	103	12.6	-1	-3	0	R	G	S	R	I	MS	MR	I	MR	I	I
CDC Meredith (2)⚡	42	103	12.4	2	-3	-2.1	R	F	R	MR	I	MS	R	MS	MR	I	I
CDC PlatinumStar (2)⚡	18	100	12.2	0	3	-0.5	R	F	S	R	S	I	MR	S	I	MR	MR
CDC Polarstar (2)⚡	20	99	12.8	-1	0	-0.6	R	F	S	R	MS	S	MR	MS	S	MR	MR
Celebration (6W)⚡	35	104	13.4	-1	5	0	S	G	R	R	MS	S	MR	MR	I	MS	MS
Lacey (6W)	41	104	—	1	5	-0.7	S	G	I	MR	MR	S	I	MR	MR	S	S
LEGACY (6W)	36	106	—	-2	8	0	S	F	I	MR	MR	S	MR	MR	MR	MS	MS
Lowe (2)⚡	35	103	12.3	2	5	-0.4	R	G	R	R	—	I	MR	I	S	MR	MR
Newdale (2)⚡	61	109	12.6	0	-3	-0.5	R	F	S	MR	MR	I	MR	I	MR	I	I
Sirish⚡	48	103	12.3	1	-13	-0.3	—	VG	S	R	—	MS	MS	MS	S	MS	MS
Stellar-ND (6W)	32	100	12.8	-2	5	0	R	G	MR	R	MS	S	I	MR	I	I	I
Tradition (6W)	59	105	13.0	2	10	0.8	S	F	S	MR	MR	S	I	MR	MR	S	S
Food and Feed																	
AB Advantage (6)⚡	30	107	13.2	1	15	0	S	VG	MR	I	—	MS	I	I	I	S	S
AB Cattlelac (6)⚡	31	110	12.8	1	11	1.3	SS	VG	I	R	—	MS	MR	MR	I	S	S
AB Tofield (6)⚡	18	111	12.1	1	5	1	S	VG	—	MR	—	MS	I	I	R	S	S
AB Wrangler (2)⚡	18	108	12.3	0	1	-0.2	R	F	MS	MR	—	I	I	MR	R	MR	MR
AC Ranger (6F)	38	109	—	1	-8	0.1	S	G	MS	I	MR	I	MR	MR	MR	S	S
Altorado⚡	32	111	12.2	0	-5	0.7	R	G	MR	MR	MR	S	I	S	MR	I	I
Amisk (6)⚡	30	116	12.6	1	0	-2.3	SS	VG	S	MS	MS	I	MR	MR	MR	S	S
Brahma (2)⚡	36	109	12.4	0	-5	0.5	R	G	MS	R	MR	S	I	S	MR	I	I
Breton (6F)	30	106	12.3	0	-5	0.8	S	G	MS	MR	I	I	MR	MR	MR	S	S
Canmore (2)⚡	33	109	12.4	1	0	0.7	R	G	R	R	I	MS	MR	I	MS	I	I
CDC Austenson (2)⚡	44	114	12.2	1	0	0.5	R	G	S	R	I	MS	R	MR	I	I	I
CDC Coalition (2)⚡	39	105	12.4	1	5	0.8	R	VG	R	MR	I	S	MR	I	MR	I	I
CDC Cowboy (2F)⚡	50	96	13.1	1	15	1.3	R	F	MS	MR	I	I	MR	I	MR	MR	MR
CDC Maverick (2F)⚡	29	97	13.4	1	10	5.4	S	F	S	R	I	I	MR	I	MR	MR	MR
CDC YORKTON (6W)	12	112	—	0	13	-3	S	G	MS	MR	MR	I	MR	MR	MR	S	S
Champion (2)⚡	44	111	12.3	0	0	0.8	R	G	S	R	—	S	I	MS	I	I	I
Claymore (2)⚡	44	117	12.0	0	0	-0.2	R	G	S	R	I	S	I	MS	MR	MR	MR
CONLON (2)⚡	88	94	12.8	-1	-3	0.8	S	G	I	I	I	I	MR	S	MR	MR	MR
Desperado (6F)⚡	44	106	12.7	1	5	2.5	S	G	MS	R	MR	S	MR	MR	MR	S	S
Oreana (2)⚡	44	111	11.8	2	-13	0.2	R	G	S	R	I	S	MR	I	I	S	S
Hulless																	
CDC Ascent (2)⚡	35	91	13.8	2	-3	8	R	G	MR	MR	I	S	MR	I	I	MR	MR
CDC Clear (2)⚡	29	97	12.6	2	5	9	R	F	R	R	I	MS	R	I	MR	MR	MR
Varieties being tested for adaptability in Western Canada																	
Esma (2)⚡	8	109	12.2	1	-10	-0.4	—	G	—	—	—	—	—	—	—	—	—
KWS Kellie (2)⚡	7	97	12.1	1	-11	-1.5	—	P	—	—	—	—	—	—	—	—	—
Varieties supported for registration by the PRCOB																	
Malting: Other																	
TR17635 (2)	7	108	12.3	2	4	-0.6	—	F	I	R	—	MS	MS	I	I	MR	MR
Food and Feed																	
FB209 (2F)	7	106	12.4	1	7	-0.3	S	F	I	MR	—	MS	MR	MS	MR	MR	MR
SR17519 (6)	6	104	12.9	1	3	0.5	S	VG	—	R	—	MR	I	I	R	MS	MS
SR18524 (6)	7	107	12.5	2	-4	0.3	S	G	—	R	—	MR	I	MR	MR	S	S
TR16742 (2)	7	104	12.3	0	0	-0.5	—	G	MS	R	—	R	MR	MR	R	I	I
TR18645 (2)	7	117	12.6	0	4	-0.4	—	G	—	R	—	MR	I	I	R	I	I
TR18647 (2)	7	105	12.4	1	4	0	—	G	—	R	—	I	I	I	MR	MR	MR
GRAND MEAN		108	12.5														
LSD (0.05)		5	0.3														

1 Values in brackets indicate row and type: 2 = two-row; 6 = six-row; W = white aleurone (all others yellow); F = fodder.

2 Reactions given for old races of stem rust. All cultivars are susceptible to new race QCCJ. However, to date this has not caused widespread damage. Early seeding will generally reduce the likelihood of severe infection.

3 Fusarium head blight (FHB) infection is highly influenced by environment and heading date. Under high levels of the disease all varieties will sustain damage. Hulless barley typically has reduced levels of DON when compared to regular barley with similar levels of disease.

BARLEY (continued)
Yield Comparisons

Variety	2020 Yield (bu/acre)											
	Arborg	Boisevain	Dauphin	Hamiota	Melita	Neepawa	Portage	Roblin	Rosebank	St. Adolphe	Stonewall	Thornhill
Malting												
AAC Connect (2)⓪	—	101	—	149	95	—	156	—	118	135	—	—
AAC Goldman (2)⓪	—	101	—	138	98	—	153	—	125	134	—	—
AAC Synergy (2)⓪	118	101	153	150	98	176	147	103	120	141	109	104
AB BrewNet (2)⓪	119	101	137	140	91	155	146	111	123	137	104	108
AC Metcalfe (2)	107	93	119	127	91	147	140	91	113	125	101	97
CDC Bow (2)⓪	—	94	—	135	85	—	140	—	123	111	—	—
CDC Churchill (2)⓪	124	97	150	148	98	164	152	96	125	123	103	112
CDC Copper (2)⓪	114	100	147	139	99	158	124	92	128	142	101	89
CDC Fraser (2)⓪	—	95	—	140	90	—	136	—	117	125	—	—
Food and Feed												
AB Advantage (6)⓪	108	89	130	126	68	150	157	117	127	117	107	110
AB Cattelac (6)⓪	126	106	153	144	99	168	171	118	141	135	100	104
AB Tofield (6)⓪	115	104	148	144	88	169	187	116	135	125	102	103
AB Wrangler (2)⓪	124	100	147	140	101	148	141	97	119	129	103	94
Varieties being tested for adaptability in Western Canada												
Esma (2)⓪	133	102	138	132	—	—	139	—	—	138	109	100
KWS Coralie (2)	116	120	126	113	—	—	126	—	—	143	—	84
KWS Kellie (2)⓪	118	101	114	117	—	—	125	—	—	151	—	59
Varieties supported for registration by the PRCOB												
Malting												
TR17635 (2)	109	100	149	143	—	—	140	—	—	145	—	96
Food and Feed												
FB209 (2F)	112	98	140	125	—	—	136	—	—	156	—	93
SR18524 (6)	114	106	147	137	—	—	128	—	—	123	—	106
TR16742 (2)	122	101	130	125	—	—	143	—	—	128	—	97
TR18645 (2)	128	112	155	148	—	—	167	—	—	146	—	106
TR18647 (2)	124	98	134	137	—	—	141	—	—	131	—	94
SITE GRAND MEAN (bu/acre)	118	101	140	136	92	159	145	105	124	134	103	98
CV %	4.3	5.7	2.8	3.8	3.5	4.7	5.6	4.1	5.4	4.7	3.8	6.3
LSD (bu/acre)	8	10	7	9	6	13	13	8	11	10	7	10
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	12-May	30-May	06-May	07-May	19-May	22-May	28-May	12-May	26-May	11-May	21-May	27-May
Harvest Date	17-Aug	01-Sep	26-Aug	25-Aug	11-Aug	26-Aug	21-Aug	21-Aug	20-Aug	18-Aug	20-Aug	16-Sep

Protein Comparisons

Variety	2020 Protein (%)											
	Arborg	Boissevain	Dauphin	Hamiota	Melita	Neepawa	Portage	Roblin	Rosebank	St. Adolphe	Stonewall	Thornhill
Malting												
AAC Connect (2)⓪	—	9.4	—	11.6	9.4	—	13.6	—	12.3	13.1	—	—
AAC Goldman (2)⓪	—	8.4	—	11.5	9.6	—	13	—	12.6	13.1	—	—
AAC Synergy (2)⓪	13.4	8.9	11.7	11.5	9.9	12.5	14.1	11.8	12.2	12.9	11.9	13.3
AB BrewNet (2)⓪	14.1	8.6	12.6	12.2	10.1	13.5	15.5	12.5	12.6	14	11.3	14.3
AC Metcalfe (2)	14.3	9.6	12.6	12.3	10.2	13.3	15	12.8	12.8	13.9	12.4	14.1
CDC Bow (2)⓪	—	8.7	—	11.8	10.5	—	14.3	—	11.9	13.8	—	—
CDC Churchill (2)⓪	13	8.7	11.7	11.5	9	12.5	13.8	12.6	12.3	13.4	11.4	13.3
CDC Copper (2)⓪	13.7	8.8	11.8	11.6	9.3	12.7	14.5	12.6	11.9	13.2	11.7	13.5
CDC Fraser (2)⓪	—	9.5	—	11.7	9.3	—	13.6	—	12	13.2	—	—
Food and Feed												
AB Advantage (6)⓪	14	10.5	13.2	13.2	12.7	15.2	14.2	12.5	14.6	14.5	11.6	13.3
AB Cattelac (6)⓪	14.4	9.9	12.8	12.5	9.9	13.1	14.8	12.6	12.8	13.3	11.9	14.6
AB Tofield (6)⓪	13.3	9.0	12.0	11.4	9.5	13.3	13.6	11.4	12.7	13.9	10.4	13.0
AB Wrangler (2)⓪	13.5	8.8	12.0	11.8	9	12.3	14.5	12.4	12.2	13.1	11.6	13.9
Varieties being tested for adaptability in Western Canada												
Esma (2)⓪	12.4	9.0	11.6	11.5	—	—	13.8	—	—	13.4	11.3	13.8
KWS Coralie (2)	12.1	8.8	11.3	11.2	—	—	13	—	—	12.6	—	12.9
KWS Kellie (2)⓪	12.5	8.8	11.7	11.5	—	—	13.6	—	—	13.4	—	13.0
Varieties supported for registration by the PRCOB												
Malting												
TR17635 (2)	14.1	8.9	11.4	11.7	—	—	14.6	—	—	13.5	—	12.6
Food and Feed												
FB209 (2F)	13.5	9.2	11.4	11.6	—	—	15.4	—	—	12.8	—	13.6
SR18524 (6)	14.1	8.9	11.5	12.0	—	—	14.4	—	—	13.8	—	13.3
TR16742 (2)	13.1	8.9	11.8	11.8	—	—	14.3	—	—	13.2	—	13.2
TR18645 (2)	13.8	9.2	12.0	11.7	—	—	14.5	—	—	14.4	—	13.0
TR18647 (2)	13.4	9.8	11.9	11.7	—	—	13.8	—	—	13.4	—	13.1
SITE GRAND MEAN (%)	13.5	9.1	11.9	11.8	9.9	13.2	14.2	12.4	12.5	13.5	11.6	13.4

CWRS

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CMBTC™
CANADIAN MALTING BARLEY
TECHNICAL CENTRE

2021-2022 RECOMMENDED MALTING BARLEY VARIETIES

THE CANADIAN MALTING BARLEY TECHNICAL CENTRE (CMBTC) RECOMMENDED LIST provides producers with an indication of which malting barley varieties have the greatest potential for selection and marketing. Each variety on the recommended list has been pilot scale tested at the CMBTC and all exhibit good malting and brewing characteristics. All varieties on the list are registered with the Canadian Food Inspection Agency (CFIA).

VARIETIES RECOMMENDED

VARIETY	TYPE	MARKET COMMENTS	SEED DISTRIBUTOR
CDC Copeland	2 Row	Established Demand	SeCan
AC Metcalfe	2 Row	Established Demand	SeCan
AAC Synergy	2 Row	Established Demand	Syngenta
AAC Connect	2 Row	Growing Demand	CANTERRA SEEDS
CDC Bow	2 Row	Growing Demand	SeCan
CDC Fraser	2 Row	Growing Demand	SeCan

In addition to the varieties listed, there are also contracting opportunities for the following:

- › **Bentley, Celebration** and **CDC PlatinumStar** (CANTERRA SEEDS)
- › **Legacy, Newdale, Tradition** (FP Genetics)
- › **Cerveza** (Mastin Seeds)
- › **Lowe** (SeCan)

The CMBTC recommends that producers have a contract for all barley varieties being grown for malt

VARIETIES IN DEVELOPMENT

These newly registered varieties are undergoing seed propagation and commercial market development. Contact the seed distributor for opportunities to trial these promising new varieties.

VARIETY	TYPE	SEED DISTRIBUTOR
CDC Churchill	2 Row	SeCan
CDC Copper	2 Row	FP Genetics
AAC Goldman	2 Row	Sollio Cooperative Group
AB BrewNet	2 Row	SeedNet

THE CMBTC AND ITS MEMBERS RECOMMEND

Talk with your grain company representative, local elevator operators, malting companies, or the representative seed company about opportunities in your area to grow and market malting barley.

Use certified seed to ensure varietal purity, reduce incidence of disease and increase the likelihood of selection for malt.

cmbtc.com



For inquiries please contact the CMBTC by email at cmbtc@cmbtc.com or call 204-984-4399



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OATS

New for 2021

Variety	Code	Breeder	Distributor	Seed Availability
AAC Douglas	OT2122	AAFC - Brandon	SeCan	2023

Comments:

There have been recent changes within the crown rust pathogen populations in Manitoba that has seen virulence developed on a number of oat varieties. Varieties that contain the Pc91 gene, including **AAC Justice**, **CDC Morrison**, **HiFi**, and **Souris**, have been redefined for crown rust resistance.

The variety **Summit**, which is postulated to carry different resistance genes, is also losing its resistance to virulent races in the Eastern Prairies; therefore, it has been redefined for crown rust resistance.

Producers are encouraged to check the “Preferred” or “Approved” lists available at most mills if they are selecting varieties for the milling market. These lists are updated as new genetics become available.

HiFi and **CDC Morrison** are exceptionally high in beta-glucan fibre and are available for contract identity preserved production.

The variety **AAC Kongsore** was selected for performance under organic growing conditions.

Variety Descriptions

Variety ¹	Site Years Tested	Yield bu/acre	Maturity +/- 96 days	Height +/- 84 cm	Test Wt +/- 39.3 lb/bu	Hull %	Hull Colour	Resistance to:				
								Lodging	Smut	Crown Rust	Stem ² Rust	BYD ³
AAC Douglas	16	159	-2	3	-1.0	25.9	White	G	R	MR	I	I
AAC Justice	37	155	0	5	0.5	22.8	White	G	R	I	I	I
AAC Kongsore	4	146	1	20	1.0	24.5	White/Light Grey	G	R	MS	I	R
AC Morgan	36	144	-1	15	-1.0	25.2	White	G	I	S	S	MS
CDC Arborg	35	156	-2	19	0.2	20.5	White	VG	R	I	S	S
CDC Big Brown	42	143	-1	3	0	20.4	Tan	G	R	R	MS	MS
CDC Dancer	40	138	-3	13	0.5	19.6	White	G	R	I	I	MS
CDC Endure	24	161	-1	13	-1.1	20.9	White	VG	R	MR	S	I
CDC Haymaker (F)	37	127	2	25	-1.0	22.0	White	G	MR	S	S	—
CDC Morrison	13	134	-2	-3	-1.0	24.4	White	VG	R	MS	I	I
CDC Norseman	31	151	-3	5	-1.0	20.5	White	G	MS	MR	S	I
CDC Ruffian	39	151	0	0	-0.8	20.5	White	G	R	I	S	S
CDC Skye	16	145	-2	11	0.5	19.6	White	G	R	R	S	—
CS Camden	34	159	2	0	-1.5	21.1	White	VG	I	MS	S	S
Furlong	72	136	-1	20	0.5	20.3	Tan	G	R	S	I	MR
HiFi	62	145	-3	15	0	24.7	White	G	MS	I	I	MR
Jordan	52	147	2	8	-2.0	23.6	White	VG	R	I	I	MR
Leggett	144	143	0	0	0	23.0	White	G	R	R	I	MS
ORe3541M	35	140	-2	-2	0.6	23.3	White	VG	R	R	S	MS
ORe3542M	35	143	-1	-2	-1.1	24.4	White	VG	R	R	S	S
Pinnacle	50	153	3	10	-1.2	23.7	White	G	R	S	I	MS
Ronald	45	136	0	3	0	22.1	White	VG	R	S	I	MR
Souris	60	141	-4	0	0.5	20.9	White	G	R	MS	MR	MS
Stride	39	143	-2	13	0.6	23.7	White	VG	R	R	I	I
Summit	72	148	0	-3	0.5	20.8	White	G	R	I	I	I
Triactor	43	160	-1	8	-1.5	22.1	White	VG	I	MR	S	MS
Varieties supported for registration												
CFA1502	24	160	1	1	1.0	28.0	White	G	—	MR	—	MR
GRAND MEAN (bu/acre)		146										
LSD (bu/acre) (0.05)		7										

1 The letter 'F' indicates a forage type.

2 All varieties are susceptible to new stem rust races NA67 and NA76 and these races caused moderate damage to crops in the Red River Valley in 2001 and 2002. Early seeding will generally reduce the likelihood of severe infection.

3 BYD = Barley Yellow Dwarf - a viral disease carried and spread by aphids - early seeding will generally reduce the likelihood of severe infection.

Yield Comparisons

Variety	2020 Yield (bu/acre)									
	Arborg	Beausejour	Brandon	Dauphin	Hamiota	Melita	Roblin	St. Adolphe	Stonewall	Thornhill
AAC Douglas	179	160	165	194	216	156	183	184	146	153
CDC Arborg	189	152	173	177	214	163	167	190	158	140
CDC Endure	191	158	186	181	213	167	180	187	155	155
CDC Skye	177	162	139	178	203	159	153	174	131	132
ORe3541M	171	137	154	123	197	154	152	158	117	118
ORe3542M	164	138	145	143	201	163	148	157	128	126
Summit	185	138	169	170	185	159	157	168	127	133
Varieties supported for registration & being tested for adaptability in Western Canada										
CFA1502	183	152	168	200	212	157	170	195	146	157
SITE GRAND MEAN (bu/acre)	180	150	162	171	205	160	164	177	139	139
CV %	6.5	7.0	6.3	4.9	2.0	3.6	7.3	3.8	3.9	5.3
LSD (bu/acre)	—	—	18	15	7	—	21	12	10	13
Sign Diff	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Seeding Date	12-May	18-May	29-May	06-May	07-May	06-May	12-May	11-May	21-May	27-May
Harvest Date	18-Aug	21-Aug	08-Sep	26-Aug	25-Aug	17-Aug	09-Sep	19-Aug	20-Aug	16-Sep

High Value

Faller & Prosper wheat

Faller dealers listed below. Prosper seed available exclusively through Richardson Pioneer.

Walt Smith - Seed Depot	(204) 825-2000	Jeffries Seed Service	(204) 827-2102
Beischer Family Seeds	(204) 564-2676	LD Seeds	(204) 324-5798
Bergen Seed Farm	(204) 736-2278	MB Seeds Ltd.	(204) 746-4652
Boissevain Select Seeds	(204) 534-6846	Miller Agritec	(204) 267-2363
Clearview Acres Ltd.	(204) 748-2666	Nickel Bros.	(204) 773-6734
Court Seeds	(204) 386-2354	Parent Bros. Inc.	(204) 737-3000
Dauphin Plains Seeds Ltd.	(204) 638-7800	Pitura Seed Service Ltd.	(204) 736-2849
Durand Seeds Inc.	(204) 248-2268	R-Way Ag Ltd.	(866) 398-9643
Ellis Farm Supplies Ltd.	(204) 824-2290	Red River Seeds Ltd.	(204) 746-4779
Ens Quality Seed	(204) 325-4658	Redsper Enterprises Ltd.	(204) 328-5346
Fisher Seeds	(204) 622-8800	RJP Seed Ltd.	(204) 745-3304
Foster Ag Services Inc.	(204) 364-2358	Rutherford Farms Ltd.	(204) 467-5613
Friesen Seeds Ltd.	(204) 746-8325	Seine River Seed Farm Ltd.	(204) 355-4495
Gerrard Family Seeds	(204) 365-0321	Triple "S" Seed Ltd.	(204) 546-2590
Hulme Agra Products Inc.	(204) 685-2627	Unger Seed Farm Ltd.	(204) 467-8630
J.S. Henry & Son Ltd.	(204) 566-2422	Wheat City Seeds Ltd.	(204) 727-3337
James Farms Ltd.	(204) 222-8785	Willodale Seeds	(204) 801-0659
Janzen Seeds	(204) 829-7749	Wilson Seeds Ltd.	(204) 246-2119
		Zeghers Seed Farm	(204) 526-2145

Our dealer network is your source for high quality seed.

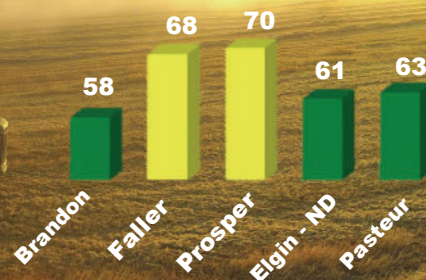
www.seeddepot.ca



2016 Seed MB Data

- ✓ **120% yield of CWRS**
- ✓ **FHB Resistance - Intermediate**
- ✓ **I-MR to Leaf & Stem Rust**
- ✓ **Lodging - Midrange**
- ✓ **1 day earlier than Carberry**
- ✓ **Semi Dwarf - 1" taller than Carberry**
- ✓ **Susceptible to Stripe Rust**

Yield MB 2016



Working Hard ...
to Earn Your Trust!

SPRING WHEAT

New for 2021

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Broadacres VB [®]	CWRS	BW5028	AAFC - Swift Current	Nutrien Ag Solutions	2021
AAC Hodge VB [®]	CWRS	BW1069	AAFC - Brandon	FP Genetics	
AAC Russell VB [®]	CWRS	PT252	AAFC - Swift Current	FP Genetics	
AAC Redstar [®]	CWRS	PT488	AAFC - Brandon	SeCan	2022
CDC Reign [®]	CPSR	HY2062	Crop Development Centre	FP Genetics	
CDC SKRush [®]	CWRS	PT599	Crop Development Centre	SeCan	2022
Jake [®]	CWRS	PT782	University of Alberta	Canterra	
SY Brawn [®]	CWRS	PT652	Syngenta	Nutrien Ag Solutions	2024
SY Natron [®]	CWRS	BW1064	Syngenta		
WPB Whistler [®]	CWSP	GP214	Wiersum Plantbreeding	SeCan	2020

Comments:

Midge tolerant varieties are designated by the letters 'VB', which stands for Varietal Blend. The varieties contain the Sm1 gene for tolerance. To manage against the build-up of midge resistance to the gene, an interspersed refuge is used commercially. More information on midge tolerant wheat varieties and interspersed refuge can be found at www.midgetolerantwheat.ca.

The varieties **CDC Hughes VB[®]**, **CDC Landmark VB[®]** and **CDC Adamant VB[®]** have partial solid stems, **AAC Concord[®]** has a solid stem, both of which can provide protection against the wheat stem sawfly.

The variety **AAC Tradition** was selected for performance under organic growing conditions.

Most varieties have been rated for their relative resistance to pre-harvest sprouting. Under wet post-maturity conditions varieties rated poor (P) would have reduced ability to retain Hagberg Falling Number values relative to those rated good (G) or very good (VG).

The Canadian Grain Commission (CGC) has stated effective August 1, 2021, five spring wheat varieties from the Canada Western Red Spring (CWRS) will be designated to the Canada Northern Hard Red (CNHR) class. Varieties published in Seed Manitoba 2021 that will be impacted are the CWRS varieties **5605HR CL[®]**, **AAC Redwater[®]**, **AC Domain**, **Muchmore[®]**, and **Vesper[®]**.

Producers are strongly encouraged to use the Canadian Grain Commission's Variety Designation Lists (www.grainscanada.gc.ca) that indicate the varieties belonging to each class of wheat in Canada, and the complete list of varieties being designated to another class effective August 1, 2021.

For complete and up-to-date information on the Canadian Wheat Class Modernization initiative, visit CGC's website at <http://www.grainscanada.gc.ca/consultations/classes-en.htm>.

It is also recommended for producers to use the Canadian Food Inspection Agency's List of Registered Varieties (www.inspection.gc.ca) to determine registration status of varieties.

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SPRING WHEAT (continued)

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awne	Resistance Level:										Fusarium ²	
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Head Blight			
Canada Western Red Spring																		
5604HR CL☼	40	68	14.5	-1	10	Y	G	G	MS	I	MS	R	R	—	I			
5605HR CL☼	32	68	14.7	1	10	Y	VG	F	R	MR	MS	MS	R	MR	MR			
AAC Alida VB☼	33	70	14.6	2	6	Y	VG	VG	R	I	MS	R	R	MR	MR			
AAC Brandon☼	74	71	14.3	2	0	Y	VG	P	MR	S	I	R	R	MR	MR			
AAC Broadacres VB☼	20	74	14.4	3	6	Y	VG	F	—	MR	—	R	R	MR	I			
AAC Cameron VB☼	34	75	13.9	1	13	Y	G	F	S	R	I	MR	MR	S	I			
AAC Connery☼	32	63	15.0	1	3	N	VG	G	MR	I	I	R	MR	R	MR			
AAC Elie☼	45	70	14.4	2	-3	Y	VG	F	I	I	I	R	R	MR	I			
AAC Hodge VB☼	6	77	14.2	2	8	Y	VG	G	MS	R	R	R	R	R	MR			
AAC Jatharia VB☼	33	75	14.4	1	13	Y	G	G	S	MS	I	I	R	I	I			
AAC LeRoy VB☼	33	74	14.4	0	7	Y	G	G	—	I	MS	MR	MR	MR	MR			
AAC Magnet☼	33	70	14.5	0	8	Y	G	G	—	S	MS	R	R	I	MR			
AAC Prevail VB☼	44	68	14.2	1	18	N	G	G	S	S	MS	MR	R	R	I			
AAC Redberry☼	45	70	14.4	0	8	Y	G	G	R	I	MS	R	R	R	I			
AAC Redstar☼	20	70	14.5	0	6	Y	VG	—	—	MR	—	R	MR	MR	MR			
AAC Redwater☼	43	66	14.6	-2	8	Y	G	VG	MS	I	MS	R	R	MR	I			
AAC Russell VB☼	20	72	14.5	2	4	Y	VG	F	—	MR	—	MR	R	R	MR			
AAC Starbuck VB☼	33	75	14.6	1	1	Y	G	F	MR	S	S	I	MR	MR	MR			
AAC Tisdale☼	32	69	15.2	1	8	Y	G	F	MR	MR	MS	R	R	S	MR			
AAC Viewfield☼	52	72	14.4	3	-5	Y	VG	G	S	MR	I	R	MR	R	I			
AAC W1876☼	32	63	15.2	3	3	Y	VG	F	I	I	MS	MR	R	I	I			
AAC Warman VB☼	33	70	14.5	0	12	Y	G	F	MR	S	I	R	R	MS	MR			
AAC Wheatland VB☼	33	75	14.4	1	0	Y	VG	G	R	MR	S	R	R	I	I			
AC Domain	1	69	14.7	-2	10	N	VG	VG	R	I	S	R	I	MR	MS			
Bolles☼	20	70	15.5	—	-1	Y	VG	—	—	S	—	MR	R	MR	I			
Carberry☼	137	68	14.5	2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR			
Cardale☼	30	69	14.5	2	3	Y	VG	G	I	MR	MS	R	R	S	MR			
CDC Adamant VB☼	32	69	14.4	0	8	Y	F	F	S	S	MS	R	I	MS	I			
CDC Bradwell☼	33	68	14.4	3	5	Y	VG	F	MR	R	MS	MR	R	MS	I			
CDC Go	14	64	14.1	-1	8	Y	G	P	MS	I	S	R	I	MR	MS			
CDC Hughes VB☼	33	70	14.6	1	3	Y	VG	VG	MR	MS	I	R	MR	I	I			
CDC Landmark VB☼	40	70	14.6	0	3	Y	VG	G	MR	MS	I	R	MS	MR	I			
CDC Ortona☼	20	69	14.6	-1	5	Y	VG	G	—	S	—	R	R	R	I			
CDC Plentiful☼	42	66	14.6	-3	8	N	VG	P	R	I	I	R	R	MR	MR			
CDC SKRush☼	20	73	14.6	2	4	Y	VG	—	—	I	—	MR	R	MR	MR			
CDC Stanley☼	34	68	14.5	0	10	N	G	G	MR	S	I	R	MR	I	MS			
CDC Titanium VB☼	32	66	15.0	2	13	Y	G	P	MS	I	MS	I	R	R	MR			
CDC Utmost VB☼	38	69	14.6	-1	10	N	G	G	MS	S	I	MR	R	I	MS			
Daybreak☼	20	75	14.4	2	4	Y	VG	—	—	S	—	R	MR	MR	I			
Ellerslie☼	20	65	14.7	0	5	Y	VG	G	—	S	—	R	MR	R	I			
Glenn☼	171	68	14.4	2	8	Y	VG	F	I	I	I	R	R	MR	I			
Goodeve VB☼	53	68	14.7	-2	10	N	VG	G	MR	S	MS	MR	MR	I	S			
Jake☼	6	71	15.4	-2	8	Y	G	—	—	MR	—	R	MR	R	MS			
Muchmore☼	40	69	14.2	2	-3	Y	VG	G	MR	R	MS	R	R	MR	MS			
Parata☼	33	68	14.8	-2	13	Y	G	F	MR	S	I	R	MR	MR	I			
Rednet☼	20	71	14.5	3	16	Y	G	F	—	S	—	R	R	R	MR			
SY Brawn☼	20	72	14.8	1	9	—	VG	—	—	MR	—	MR	R	I	I			
SY Chert VB☼	26	70	14.1	-1	7	Y	G	F	R	R	MS	R	R	R	I			
SY Gabbro☼	33	72	14.8	2	7	Y	VG	F	R	I	MS	MR	R	I	MR			
SY Natron☼	20	68	14.7	2	11	—	G	—	—	R	—	MR	R	S	I			
SY Obsidian☼	26	70	14.3	1	3	Y	VG	F	R	MS	I	MR	R	MR	MS			
SY Slate☼	32	71	14.9	1	10	Y	G	P	MS	S	MS	MR	R	MR	I			
SY Sovite☼	32	64	14.5	1	8	Y	G	F	R	MS	MR	MR	R	R	MR			
SY Torach☼	33	70	14.9	2	3	Y	VG	F	R	MS	MS	MR	R	MS	MR			
Thorsby☼	30	64	14.9	-2	13	N	VG	F	I	S	MS	MR	R	R	I			
Tracker☼	20	68	14.8	-2	4	Y	G	G	—	S	—	R	R	R	I			
Vesper VB☼	40	71	14.5	0	10	Y	F	F	I	S	I	MR	R	S	I			
WR859 CL☼	42	69	14.4	0	5	Y	G	G	R	R	MS	MR	R	I	MR			

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	Resistance Level:										Fusarium ²	
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Head Blight			
Canada Prairie Spring Red																		
AAC Crossfield	34	76	13.6	2	0	Y	G	P	I	S	I	MR	R	R	R	I		
AAC Crusader	16	75	13.4	0	-3	Y	G	VP	MR	I	MS	R	R	MR	I			
AAC Entice	35	74	13.6	2	1	Y	G	P	MS	S	MS	R	R	R	R	I		
AAC Foray VB	31	78	13.1	1	5	Y	VG	P	MS	I	MS	MR	R	I	I			
AAC Goodwin	33	76	14.1	2	0	Y	VG	G	MS	I	I	I	R	R	R	I		
AAC Penhold	44	76	13.9	1	-10	Y	VG	VG	I	R	I	MR	R	MR	MR			
AAC Ryley	30	72	13.1	1	3	Y	G	G	I	R	MS	R	R	S	MS			
AAC Tenacious VB	45	65	13.1	1	20	Y	F	G	R	MR	MS	MR	R	R	R			
Accelerate	20	79	13.4	2	-2	Y	VG	—	—	S	—	R	R	R	R	I		
CDC Reign	6	77	14.0	3	2	Y	VG			S		MR	R	I	I			
CDC Terrain	33	72	13.4	0	10	Y	VG	G	MR	MR	I	MR	R	R	MS			
SY Rowyn	34	75	13.5	1	-5	Y	VG	F	I	S	I	R	R	MR	MR			
Canada Northern Hard Red																		
AAC Concord	33	68	14.6	2	15	Y	G	F	I	MR	I	R	R	R	MS			
AAC Tradition	33	68	14.2	4	5	Y	G	VG	MS	MR	I	R	MR	S	I			
Elgin ND	41	78	14.0	2	10	Y	G	F	—	S	I	I	R	MR	I			
Faller	48	84	12.9	1	3	Y	G	F	—	I	MS	I	MR	MS	I			
Harvest	18	66	14.2	-1	8	N	VG	VG	MR	S	MS	R	MR	MR	S			
KANE	87	67	14.4	1	8	Y	G	VG	MS	I	I	R	R	MR	I			
Prosper	45	83	12.9	1	3	Y	G	F	—	I	I	MR	MR	S	I			
Unity VB	53	71	14.2	0	13	Y	F	VG	MS	R	I	MR	R	MS	I			
Canada Western Special Purpose																		
AAC Awesome VB	33	89	11.5	4	10	Y	G	P	I	I	I	R	MR	R	I			
AAC Innova	42	79	11.6	4	5	Y	F	VP	S	S	I	MR	R	R	S			
AAC NRG097	31	74	12.5	5	3	y	VG	F	I	R	I	MR	R	S	I			
AAC Proclaim	30	74	12.5	3	10	Y	F	G	MR	S	I	MR	R	MS	MR			
Alderon	33	79	11.9	9	-5	—	VG	F	—	MS	I	MR	R	MR	—			
CDC Throttle	19	82	12.5	2	5	Y	VG	P	MR	I	S	MR	MR	I	I			
Charing VB	20	81	12.5	9	0	—	VG	G	—	—	MR	—	MR	R	—			
Pasteur	39	80	12.9	7	5	N	VG	G	MS	S	I	MR	R	MR	I			
Sparrow VB	33	81	12.5	8	0	—	VG	G	—	I	I	MR	R	MR	—			
SY087	31	76	13.8	2	5	Y	VG	F	MS	MR	I	MR	MR	MR	MR			
WPB Whistler	20	81	11.8	7	1	N	VG	—	—	I	—	R	R	R	I			
Canada Western Hard White Spring																		
AAC Cirrus	26	69	14.7	1	3	Y	VG	F	R	I	I	MR	R	R	I			
AAC Iceberg	42	64	13.9	0	3	Y	G	P	MS	MR	MS	R	R	I	I			
AAC Whitefox	32	67	13.8	-2	8	N	G	F	MS	MS	MS	MR	MR	MS	I			
Snowstar	28	68	13.4	-1	3	N	VG	G	MS	S	MS	R	MR	MS	MS			
Canada Western Soft White Spring																		
AAC Chiffon VB	44	85	11.4	4	10	Y	F	VP	S	S	—	S	I	MR	S			
AAC Indus VB	33	80	11.0	6	5	Y	VG	P	S	MS	MS	S	I	R	MS			
AAC Paramount VB	34	85	11.4	4	8	Y	VG	P	MR	S	—	I	I	R	MS			
Sadash VB	35	77	10.7	4	8	Y	VG	P	I	S	—	MR	I	R	S			
Canada Western Extra Strong																		
CDN Bison	38	71	13.7	1	8	Y	G	F	R	I	I	R	MR	—	I			
Glencross VB	41	68	14.1	0	20	N	G	F	R	I	MS	R	MR	MR	S			
Varieties supported for registration by the PRCWRT																		
BW1093	6	80	14.0	1	-5	Y	VG	—	—	S	—	R	R	I	I			
BW5031	20	69	14.5	2	2	Y	VG	—	—	S	—	MR	MR	I	MS			
BW5044	6	72	14.4	2	-1	Y	VG	—	—	R	—	MR	R	R	MR			
BW5045	6	77	14.0	2	2	Y	VG	—	—	MS	—	MR	R	I	I			
BW5055	6	75	14.1	0	8	Y	VG	—	—	MS	—	I	I	I	MR			
BW 5072	6	73	14.1	3	8	Y	VG	—	—	MS	—	I	I	I	MS	MR		
CS11200104-11	7	72	14.4	3	-1	—	VG	—	—	R	—	R	R	R	I			
CS11200214-17	13	74	14.1	3	8	—	VG	—	—	MS	—	R	R	R	MR			
HY2068	19	77	13.0	3	2	—	VG	—	—	MS	—	R	R	S	I			
LNR15-1741	6	76	13.3	1	-2	Y	VG	—	—	I	—	I	R	MR	I			
PT598	20	67	14.2	1	-4	Y	VG	—	—	MR	—	MR	R	MS	I			
GRAND MEAN (bu/acre and %)		76	14															
LSD (bu/acre and %) (0.05)		4	0.4															

1 Leaf Spots rating is a combination of resistance to tan spot, spot blotch and septoria leaf disease complex.

2 Fusarium head blight (FHB) infection is highly influenced by genetics, environment and heading date. Under high levels of disease pressure, all varieties will experience yield and/or quality loss.

SPRING WHEAT (continued)

Yield Comparisons

Class/Variety	2020 Yield (bu/acre)												
	Arborg	Beausejour	Brandon	Dauphin	Hamiota	Melita	Neepawa	Portage	Rosebank	St. Adolphe	Stonewall	Swan River	Thornhill
Canada Western Red Spring													
AAC Brandon🌾	93	68	78	91	82	57	99	96	82	79	51	79	67
AAC Broadacres VB🌾	94	77	82	90	95	64	99	101	81	76	63	89	66
AAC Hodge VB🌾	105	—	—	89	92	—	—	89	—	84	—	—	76
AAC LeRoy VB🌾	105	76	79	89	93	70	105	99	87	78	53	93	73
AAC Magnet🌾	97	75	63	85	92	63	99	75	78	76	61	77	69
AAC Redberry🌾	100	72	73	86	79	63	102	92	81	78	56	82	63
AAC Redstar🌾	94	66	75	83	85	67	101	88	76	86	60	76	73
AAC Russell VB🌾	96	75	75	90	88	66	102	86	79	70	57	88	67
AAC Starbuck VB🌾	97	69	83	88	90	67	101	99	82	81	57	94	64
AAC Wheatland VB🌾	99	72	77	80	99	68	99	99	87	75	60	86	68
Bolles🌾	94	74	67	87	82	62	106	85	75	70	52	87	76
Carberry🌾	92	67	71	85	81	57	96	72	68	72	51	75	60
CDC Ortona🌾	91	61	71	90	91	60	102	89	78	77	56	69	74
CDC SKRush🌾	95	71	82	84	86	70	109	104	83	87	62	76	74
Daybreak🌾	102	81	68	95	92	69	106	95	82	76	60	91	76
Ellerslie🌾	87	56	68	76	83	61	98	101	73	75	55	72	66
Jake🌾	89	—	—	84	84	—	—	106	—	78	—	—	71
Parata🌾	94	61	73	89	92	63	105	81	80	73	46	73	63
RedNet🌾	100	72	79	87	83	66	107	108	78	82	55	85	73
SY Brawn🌾	94	77	71	87	89	70	105	77	80	77	64	83	78
SY Gabbro🌾	97	69	68	88	94	62	101	91	78	77	60	83	77
SY Natron🌾	92	59	73	88	84	59	96	85	74	79	50	75	68
SY Torach🌾	100	72	73	82	76	61	90	87	73	77	57	81	70
Tracker🌾	91	64	70	87	80	63	103	96	83	76	48	72	75
Canada Prairie Spring Red													
Accelerate🌾	115	85	73	95	98	70	115	102	85	77	55	93	83
CDC Reign🌾	100	—	—	92	94	—	—	104	—	85	—	—	79
Canada Western Hard White Spring													
AAC Cirrus🌾	99	72	67	75	81	62	89	84	75	89	47	75	69
Canada Western Special Purpose													
Alderon	103	83	85	73	90	73	104	88	87	104	60	80	61
Sparrow VB	109	82	78	79	91	76	119	82	91	95	59	95	78
WPB Whistler🌾	102	91	88	98	98	77	112	95	89	93	68	84	78
Varieties supported for registration by the PRCWRT													
BW1093	109	—	—	96	95	—	—	106	—	85	—	—	78
BW5031🌾	94	66	80	76	73	62	96	100	80	74	53	78	66
BW5044	99	—	—	76	88	—	—	93	—	84	—	—	71
BW5045	100	—	—	91	102	—	—	110	—	83	—	—	71
BW5055	104	—	—	92	94	—	—	111	—	86	—	—	68
BW5072	103	—	—	95	87	—	—	88	—	79	—	—	74
CS11200214-17	100	—	—	91	93	—	—	101	—	77	—	—	77
CS12200109-11	99	—	—	92	86	—	—	94	—	80	—	—	68
HY2068🌾	106	77	—	85	93	73	108	102	85	83	55	83	71
LNR15-1741	104	—	—	88	96	—	—	99	—	84	—	—	68
PT598🌾	95	58	72	71	73	57	88	104	77	77	42	77	61
SITE GRAND MEAN (bu/acre)	98.5	71.5	74.6	86.4	88.4	65.3	102.1	95.1	80.3	80.4	55.8	81.8	70.9
CV %	2.6	7.2	7.8	4.4	3.6	3.7	4.7	5.3	4.4	3.6	6.3	4.2	6.4
LSD (bu/acre)	4	9	10	6	5	4	8	8	6	5	6	6	7
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	12-May	19-May	29-May	06-May	07-May	06-May	22-May	28-May	25-May	11-May	21-May	16-May	27-May
Harvest Date	24-Aug	21-Aug	15-Sep	02-Sep	04-Sep	18-Aug	26-Aug	09-Sep	24-Aug	19-Aug	08-Sep	09-Sep	16-Sep

Protein Comparisons

Class/Variety	2020 Protein (%)												
	Arborg	Beausejour	Brandon	Dauphin	Hamiota	Melita	Neepawa	Portage	Rosebank	St. Adolphe	Stonewall	Swan River	Thornhill
Canada Western Red Spring													
AAC Brandon	15.2	14.4	15.4	13.0	14.2	12.7	15.1	16.2	14.0	15.4	14.5	14.2	16.2
AAC Broadacres VB	15.5	14.2	14.5	13.1	13.7	12.3	15.4	16.6	14.8	15.8	14.5	14.6	16.0
AAC Hodge VB	14.5	13.7	—	12.9	13.5	—	—	16.0	—	15.9	—	—	16.0
AAC LeRoy VB	15.0	14.3	14.9	13.0	13.9	12.3	14.9	16.8	14.7	16	14.6	14.3	15.8
AAC Magnet	14.6	14.4	15.9	14.0	14.3	12.4	15.7	17.0	14.5	15.5	14.3	15.7	16.0
AAC Redberry	14.7	14.3	15.0	13.0	14.1	12.7	15.3	16.7	14.0	15.5	14.5	15.1	16.1
AAC Redstar VB	14.7	14.7	15.2	13.3	14.2	12.5	15.5	16.8	14.3	14.8	14.2	14.7	16.3
AAC Russell VB	15.7	14.9	14.6	13.9	14.1	12.7	15.9	17.0	14.8	15	14.6	14.4	16.2
AAC Starbuck VB	15.4	14.9	14.4	13.2	14.0	13.1	15.8	16.6	14.4	16	14.5	14.8	16.0
AAC Wheatland VB	15.0	14.1	14.5	13.6	13.6	12.4	15.8	16.9	15.1	15.7	13.9	14.4	16.2
Bolles	15.7	15.0	16.1	14.2	14.6	13.5	16.4	17.4	15.5	17.8	15.8	17.1	17.7
Carberry	15.3	14.7	15.8	13.2	—	13.4	15.3	16.7	14.1	15.7	15.6	15.2	16.5
CDC Ortona	15.2	14.8	15.1	13.3	13.9	13	15.0	17.3	15.0	15	14.0	15.4	15.7
CDC SKRush	14.6	13.7	14.9	13.0	14.8	12.3	15.5	16.9	13.7	15.3	14.1	15.6	16.9
Daybreak	14.6	14.3	15.7	13.0	13.7	12.7	14.5	16.2	14.0	16	14.3	15.1	15.8
Ellerslie	15.1	14.9	15.6	14.1	14.3	12.7	15.6	16.9	15.3	15	13.7	15.7	16.4
Jake	15.6	15.8	—	13.6	14.3	—	—	18.0	—	17.1	—	—	17.2
Parata	15.3	14.6	16.0	13.1	13.9	13.1	15.8	17.4	14.0	16.3	14.7	15.7	16.2
RedNet	14.8	14.6	14.2	13.1	13.9	12.8	15.1	16.5	14.2	16	14.7	14.8	16.4
SY Brawn	15.4	14.2	14.7	13.0	14.0	12.2	15.8	16.7	14.4	16.2	15.3	15.3	16.8
SY Gabbro	15.0	14.5	15.2	13.5	14.3	12.5	16.3	17.5	15.8	16.6	15.0	13.9	16.7
SY Natron	15.1	15.5	14.6	13.5	14.6	13	15.5	16.8	14.8	16.1	15.0	15.9	16.2
SY Torach	15.0	15.1	15.2	13.7	14.7	12.8	15.8	16.7	15.3	16.2	14.4	15.8	16.8
Tracker	14.9	14.6	15.4	13.1	14.4	13.4	15.7	17.3	15.2	15	14.4	15.8	16.3
Canada Prairie Spring Red													
Accelerate	13.1	13.7	14.0	12.2	13.2	11.1	14.4	15.3	13.1	14.4	13.3	13.8	15.0
CDC Reign	14.4	14.3	—	12.7	13.9	—	—	15.6	—	14.9	—	—	15.2
Canada Western Hard White Spring													
AAC Cirrus	14.5	15.3	14.6	13.5	14.2	12.4	15.3	16.6	14.6	15.3	14.2	15.8	15.9
Canada Western Special Purpose													
Alderon	12.0	12.6	11.8	11.3	11.9	10.3	11.8	14.6	12.2	12.1	11.7	12.7	13.1
Sparrow VB	12.9	11.8	12.2	12.5	12.5	10.7	12.4	14.6	11.9	12.7	12.3	13.5	13.6
WPB Whistler	12.1	12.7	11.9	11.4	11.9	10.5	12.0	13.8	11.6	11.8	11.2	12.7	13.1
Varieties supported for registration by the PRCWRT													
BW1093	14.4	14.5	—	12.4	13.3	—	—	16.1	—	15.4	—	—	15.3
BW5031	15.3	14.6	14.8	13.5	14.8	12.6	15.3	16.7	14.7	15.7	14.6	14.5	15.8
BW5044	14.6	14.0	—	14.9	13.3	—	—	15.8	—	15.5	—	—	16.0
BW5045	14.8	14.5	—	12.3	14.2	—	—	16.1	—	14.1	—	—	15.5
BW5055	14.2	14.6	—	12.8	13.5	—	—	16.5	—	15	—	—	15.2
BW5072	14.7	14.6	—	12.0	13.4	—	—	16.6	—	15.2	—	—	15.4
CS11200214-17	14.6	14.2	—	12.5	13.6	—	—	15.8	—	15.9	—	—	15.6
CS12200109-11	14.8	14.9	—	12.9	13.9	—	—	16.4	—	16	—	—	16.6
HY2068	13.3	12.5	—	12.5	13.2	11.3	13.7	14.8	12.1	13.7	12.9	13.7	15.0
LNR15-1741	13.6	13.5	—	12.5	12.9	—	—	14.7	—	14	—	—	14.6
PT598	14.6	14.5	14.8	13.4	13.5	12.5	14.5	16.4	14.0	15.5	13.7	15.0	15.7
SITE GRAND MEAN (%)	14.6	14.3	14.7	13.1	13.8	12.4	15.0	16.4	14.2	15.3	14.2	14.8	15.8

DURUM WHEAT

Comments:

Durum wheat was last tested in 2018.

The varieties **AAC Raymore**, **AAC Stronghold**, **CDC Fortitude** and **AAC Cabri** have solid stems with resistance to the wheat stem sawfly.

Midge tolerant varieties are designated by the letters 'VB', which stands for Varietal Blend. The varieties contain the Sm1 gene for tolerance. To manage against the build-up of midge resistance to the gene, an interspersed refuge is used commercially. More information on midge tolerant wheat varieties and interspersed refuge can be found at www.midgetolerantwheat.ca

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 101 days	Height +/- 89 cm	Spike Awned	Resistance Level:								
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Fusarium
															Head Blight
AAC Cabri☼	9	65	14.1	1	3	Y	G	F	MR	R	I	MR	R	R	MS
AAC Congress☼	3	66	14.0	0	3	Y	G	F	MR	R	MS	MR	R	R	MS
AAC Current☼	14	59	14.4	1	4	Y	G	P	MS	MR	I	R	R	MR	MS
AAC Durafield	8	68	14.2	0	0	Y	G	F	S	R	I	R	R	MR	S
AAC Grainland ‘	26	62	14.1	1	1	Y	G	—	R	R	MS	MR	R	R	MS
AAC Marchwell VB☼	14	63	14.4	0	0	Y	G	P	MR	R	MS	R	R	R	MS
AAC Raymore☼	14	62	14.4	0	0	Y	G	F	MS	MR	I	R	R	MR	S
AAC Spitfire☼	11	65	14.3	0	-2	Y	VG	F	MS	R	MS	R	R	R	S
AAC Stronghold☼	4	64	14.0	1	-2	Y	VG	G	R	I	I	R	R	MR	MS
AAC Succeed VB☼	4	67	14.2	-1	1	Y	G	—	R	R	MS	MR	R	I	MS
Brigade☼	29	72	13.3	2	6	Y	G	F	S	R	I	R	R	MR	MS
CDC Alloy☼	9	67	13.8	0	4	Y	G	F	I	R	MS	MR	R	R	MS
CDC Carbide VB☼	11	64	14.3	0	1	Y	G	P	MS	R	MS	R	R	R	MS
CDC Credence☼	2	67	13.9	1	6	Y	G	F	MR	R	I	MR	R	MR	MS
CDC Desire	6	59	14.1	-2	0	Y	G	G	MS	R	I	R	R	MR	S
CDC Dynamic☼	9	66	14.4	0	2	Y	G	F	I	R	I	MR	R	MR	MS
CDC Fortitude☼	14	66	14.2	1	-1	Y	VG	F	MS	R	MS	MR	R	R	MS
CDC Precision☼	9	68	13.8	0	4	Y	G	F	MS	R	MS	MR	R	R	MS
CDC Verona☼	21	64	14.1	2	1	Y	G	F	MS	R	MS	R	R	R	MS
CDC Vivid	14	60	14.3	0	0	Y	VG	F	I	R	I	R	R	MR	S
Enterprise☼	2	66	14.1	0	2	Y	F	G	MS	MR	I	R	R	R	MS
Eurostar	2	68	13.9	2	4	Y	F	F	S	R	I	R	R	R	MS
Strongfield☼	12	65	14.4	0	0	Y	G	F	S	MR	I	R	R	MR	S
Transcend☼	23	67	14.0	2	5	Y	G	G	S	R	I	R	R	R	MS
GRAND MEAN (bu/acre)		65	13.9												
LSD (0.05)		4	0/5												

¹ Leaf Spots rating is a combination of resistance to tan spot, spot blotch and septoria leaf disease complex.

WINTER WHEAT

Comments:

AAC Icefield is a hard white winter wheat with registration in the Canada Western Experimental class.

Broadview, **CDC Falcon** and **Peregrine** are hard red kernel types.

AAC Elevate has resistance to wheat curl mite, the vector that transmits wheat streak mosaic virus. To preserve the effectiveness of the tolerance gene, agronomic practices eliminating the 'green bridge' of plant material that serves as a reservoir for mites should be followed whenever possible.

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Height +/- 75 cm	Spike Awned	Relative ¹ Maturity	Relative ² Winter Hardiness	Resistance Level:					
							Lodging	Common Bunt	Stem Rust	Leaf Rust	Stripe Rust	Fusarium ³ Head Blight
Canada Western Red Winter												
AAC Elevate☺	39	81	8	Y	M	G	VG	MR	MR	I	MS	I
AAC Gateway☺	35	82	2	Y	M	F	VG	S	MR	I	MR	I
AAC Goldrush☺	26	82	10	Y	M	VG	G	S	MR	R	I	I
AAC Network☺	7	81	4	Y	L	G	VG	MR	R	MR	R	I
AAC Wildfire☺	26	89	10	Y	L	VG	G	MR	S	I	R	MR
CDC Buteo	86	80	16	Y	M	VG	F	S	I	I	S	MR
CDC Chase	30	85	19	Y	M	F	F	S	R	R	MR	MS
Emerson☺	47	83	11	Y	M	G	VG	S	R	I	MR	R
Flourish	35	83	5	Y	E	F	VG	MR	I	I	I	S
McClintock	59	78	19	Y	L	F	VG	S	R	MR	—	S
Moats☺	35	84	16	Y	E	G	F	MS	R	R	MR	S
Canada Western Special Purpose												
Broadview☺	38	83	6	Y	E	G	G	S	R	R	S	S
CDC Falcon	103	79	0	Y	E	F	VG	S	MR	MR	S	S
Peregrine	36	86	22	Y	M	VG	F	S	I	MR	MR	I
Canada Western Experimental												
AAC Icefield☺	26	84	5	Y	M	F	VG	S	R	MR	MR	I
Varieties supported for registration by the PRCWRT												
W520	37	89	8	Y	M	F	VG	I	R	R	R	I
W522	19	87	0	Y	E	F	G	S	R	R	I	I
W563	14	88	10	Y	M	G	VG	S	R	MR	R	MR
GRAND MEAN (bu/acre)		83										
LSD (bu/acre) (0.05)		3										

1 Maturity ratings: E = Early, M = Medium and L = Late. Varieties plus 2 to 4 days compared to CDC Falcon would be Medium (M) maturing.

Varieties greater than 4 days compared to CDC Falcon would be rated as Late (L) maturing.

2 All registered varieties have similar (good) winter hardiness if seeded at the optimum date into standing stubble where good snow cover can be assured. For the newer varieties, there is limited information currently available. As these varieties are grown on more acres, a better understanding of relative winter hardiness will follow.

3 FHB infection is highly influenced by genetics, environment and heading date. Under high levels of disease pressure, all varieties will experience yield and/or quality loss.

Yield Comparisons

Class/Variety	2020 Yield (bu/acre)						
	Beausejour	Carberry	Carman	Hamiota	Melita	Portage	Winnipeg
Canada Western Red Winter							
AAC Goldrush®	61	84	65	81	73	116	76
AAC Network®	68	76	59	77	75	107	76
AAC Wildfire®	69	95	71	86	79	120	77
Emerson®	67	83	62	89	81	118	69
Canada Western Experimental							
AAC Icefield®	63	94	65	72	76	117	76
Varieties supported for registration by the PRCWRT							
W520	68	89	72	77	82	112	84
W522	79	103	78	101	86	127	81
W563	63	89	57	71	80	96	72
SITE GRAND MEAN (bu/acre)	67	89	66	82	79	114	76
CV %	9.0	5.4	7.5	4.0	6.0	5.4	5.7
LSD (bu/acre)	—	8	7	6	—	11	8
Sig Diff	No	Yes	Yes	Yes	No	Yes	Yes
Seeding Date	17-Sep	16-Sep	19-Sep	17-Sep	16-Sep	26-Sep	17-Sep
Harvest Date	12-Aug	09-Aug	04-Aug	19-Aug	03-Aug	06-Aug	12-Aug

Protein Comparisons

Class/Variety	2020 Protein (%)						
	Beausejour	Carberry	Carman	Hamiota	Melita	Portage	Winnipeg
Canada Western Red Winter							
AAC Goldrush®	13.4	13.0	14.8	12.3	11.1	13.3	13.7
AAC Network®	13.5	13.4	14.8	12.7	11.3	13.5	13.8
AAC Wildfire®	12.9	13.2	14.8	12.2	11.3	13.5	13.7
Emerson®	14.2	14.2	15.8	13.7	11.4	14.1	15.4
Canada Western Experimental							
AAC Icefield®	12.1	12.3	14.0	12.2	10.2	12.3	13.2
Varieties supported for registration by the PRCWRT							
W520	12.4	12.6	14.2	12.0	10.6	12.6	12.5
W522	12.1	12.3	14.2	11.7	10.4	12.8	12.3
W563	13	13.5	14.4	12.2	10.4	12.7	13.7
SITE GRAND MEAN (%)	13.0	13.1	14.6	12.4	10.8	13.1	13.5

FALL RYE

Comments:

The hybrid fall rye varieties **Brasetto**, **Guttino**, **KWS Bono**, **KWS Daniello**, **KWS Gatano**, and **KWS Trebiano** have improved falling number. Typically, a falling number of 180 seconds or greater is preferred by the rye milling market. Falling number can be heavily influenced by moisture around harvest time.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Height +/- 104 cm	Relative ¹ Maturity	Falling Number (Seconds)	Resistance Level:		Relative Winter Hardiness
						Lodging	Ergot	
Danko	29	92	—	—	—	—	—	F
Hazlet	65	97	3	0	152	G	MS	VG
Prima	25	91	13	-3	204	F	MS	VG
Hybrid Fall Rye								
Brasetto	30	114	-7	0	248	VG	MS	VG
Guttino	38	116	-9	0	292	VG	MS	VG
KWS Bono	37	113	-8	0	265	VG	MS	VG
KWS Daniello	20	113	-7	0	272	G	MS	VG
KWS Gatano	20	115	-7	0	268	G	MS	VG
KWS Trebiano	7	116	-3	0	284	VG	MS	VG
GRAND MEAN (bu/acre)		104						
LSD (bu/acre) (0.05)		3.9						

¹ Maturity ratings: Hazlet reaches maturity in approximately 219 days.

Yield Comparisons

Type/Variety	2020 Yield (bu/ac)						
	Arborg	Carberry	Carman	Hamiota	Melita	Portage	Winnipeg
Hazlet	79	90	82	78	75	129	73
Hybrid Fall Rye							
KWS Bono	89	114	100	97	95	149	74
KWS Daniello	86	118	105	101	91	155	84
KWS Gatano	91	119	102	110	96	155	79
KWS Trebiano	88	118	104	102	99	158	87
SITE GRAND MEAN (bu/acre)							
CV %	4.6	5.3	6.9	3.7	6.0	2.9	7.3
LSD (bu/acre)	7	11	10	7	10	8	9
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	13-Sep	16-Sep	19-Sep	17-Sep	16-Sep	16-Sep	17-Sep
Harvest Date	10-Aug	11-Aug	07-Aug	19-Aug	03-Aug	06-Aug	12-Aug