CANADA WESTERN RED SPRING WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% AAC Brandon) Low < 77 (bu/ac)	Yield Category (% AAC Brandon) High ≥ 77 (bu/ac)	Agronomic Characteristics: Maturity Rating (Days +/- AAC Brandon)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Disease Tolerance: Stripe Rust	Disease Tolerance: Fusarium Head Blight
Yield and agronomic data only directly comparable to AAC Brandon																
AAC Brandon (bu/ac)			**75**	**59**	**95**											
AAC Brandon - check	**2022**	**101**	**100**	**100**	**100**	**104**	**14.0**	**63**	**39**	**84**	**Y**	**G**	**P**	**S**	**MR**	**MR**
AAC Alida VB †	2019	37	94	97	93	0	-0.2	63	41	91	Y	G	VG	I	**MR**	**MR**
AAC Broadacres VB	2021	30	105	103	106	0	-0.7	63	40	86	Y	VG	F	**R**	**MR**	I
AAC Connery	2016	24	97	93	106	-1	0.2	62	40	88	N	VG	G	I	**R**	**MR**
AAC Elie	2020	15	103	105	100	0	-0.5	64	39	84	Y	G	F	I	**MR**	I
AAC Hockley*	2022	19	100	95	105	1	0.1	64	34	82	Y	VG	G	**R**	**R**	**MR**
AAC Hodge VB*	2022	31	103	101	105	-1	-0.3	63	37	91	Y	G	F	**R**	**R**	**MR**
AAC LeRoy VB	2021	29	100	101	99	0	-0.2	63	39	88	Y	G	G	I	**MR**	**MR**
AAC Magnet	2020	36	93	94	93	-2	0.0	63	40	90	Y	VG	F	S	I	**MR**
AAC Redberry	2017	37	94	94	94	-3	-0.3	63	41	90	Y	F	G	I	**R**	I
AAC Redstar*	2022	31	96	92	101	-2	0.0	63	36	90	Y	VG	G	**MR**	**MR**	**MR**
AAC Russell VB	2021	30	104	103	104	-1	-0.2	63	39	87	Y	G	F	**MR**	**R**	**MR**
AAC Starbuck VB	2020	36	103	104	102	0	-0.2	63	39	87	Y	F	F	S	**MR**	**MR**
AAC Tisdale †	2017	37	94	94	94	-1	0.6	63	42	93	Y	F	F	**MR**	S	**MR**
AAC Viewfield	2022	50	103	99	106	0	-0.3	63	37	81	Y	VG	G	**MR**	**R**	I
AAC Warman VB †	2020	36	94	93	94	-1	-0.4	63	38	99	Y	P	F	S	MS	**MR**
AAC Wheatland VB	2020	36	104	104	104	0	-0.5	63	40	86	Y	VG	G	**MR**	I	I
Carberry	2021	59	94	92	95	0	0.1	63	39	84	Y	VG	F	**R**	**MR**	**MR**
CDC Abound	2010	88	101	100	105	-1	-0.1	63	40	87	Y	G	F	I	MS	S
CDC Adamant VB	2018	37	98	98	97	-1	-0.2	63	39	88	Y	P	F	S	MS	I
CDC Go	2019	60	95	93	96	-1	0.0	62	44	92	Y	F	P	I	MS	MS
CDC Hughes VB	2018	37	96	96	96	-1	-0.2	63	44	87	Y	G	G	MS	I	I
CDC Landmark VB	2019	50	99	98	100	-1	-0.2	63	43	88	Y	G	G	MS	**MR**	I
CDC Ortona	2020	36	99	98	100	-1	-0.4	63	35	93	N	G	G	S	**R**	I
CDC Pilar CLPlus*	2021	30	98	98	98	-1	-0.5	62	38	78	Y	VG	G	**MR**	MS	I
CDC Plentiful †	2014	41	92	XX	XX	-2	-0.2	64	35	94	N	G	P	I	**MR**	**MR**
CDC Silas*	2022	31	99	97	101	0	-0.2	62	36	87	Y	F	F	MS	I	I
CDC SKRush*	2022	31	100	97	104	-1	-0.1	63	33	93	Y	F	P	I	**MR**	**MR**
CDC Stanley	2013	76	98	100	101	-1	-0.1	63	34	97	N	G	G	S	I	MS
CDC Succession CLPlus VB*	2021	30	101	102	101	0	-0.4	62	41	86	Y	VG	G	S	I	MS
Ellerslie	2021	30	99	96	103	-1	-0.2	61	35	90	N	VG	G	S	R	I
Go Early †	2016	24	93	92	97	-4	0.4	61	40	100	Y	P	P	**MR**	I	I
Jake	2020	36	94	93	96	-2	0.6	63	37	93	Y	F	F	**MR**	**R**	MS
Parata	2019	37	87	86	88	-4	0.2	63	39	94	Y	F	F	S	**MR**	I
Rednet	2022	43	97	94	100	0	0.1	64	37	97	Y	F	F	S	**R**	**MR**
Shaw VB †	2011	43	100	100	101	-1	-0.5	63	37	104	N	F	G	**MR**	I	MS
Sheba	2021	30	96	91	100	-1	-0.5	63	36	94	N	G	G	**MR**	**R**	I
Stettler	2020	90	97	98	97	0	0.1	63	38	92	Y	F	G	**MR**	**MR**	MS
SY Brawn VB	2021	30	99	95	102	-1	-0.1	62	35	91	Y	G	F	**MR**	I	I
SY Cast*	2021	30	98	97	99	-1	0.4	62	39	83	Y	VG	G	**R**	**R**	I
SY Crossite*	2021	30	100	101	99	-1	-0.3	62	40	90	Y	G	G	MS	**R**	**MR**
SY Donald VB*	2022	19	97	94	101	-1	-0.3	63	34	89	Y	F	G	MS	I	**MR**
SY Gabbro	2021	41	99	98	100	-1	0.0	62	40	90	Y	VG	F	I	I	**MR**
SY Manness*	2022	31	98	94	103	-1	-0.4	62	33	81	Y	VG	G	S	I	I
SY Torach	2021	30	99	97	101	0	0.4	63	33	80	Y	VG	F	MS	MS	**MR**
Thorsby	2015	43	92	XX	XX	-2	-0.5	64	38	87	N	G	F	S	**R**	I
Tracker	2020	36	94	93	95	-2	0.0	63	35	90	N	F	G	S	**R**	I

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. * Effective Aug. 1, 2021 the Canadian Grain Commission designated AAC Redwater and Muchmore to the CNHR wheat class. For more information see the Canadian Grain Commission website www.grainscanada.gc.ca. Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for bunt should be treated with a systemic seed treatment to reduce the potential for infection. CDC Adamant VB, CDC Landmark VB and CDC Hughes VB have a semi-solid stem that confers resistance to the wheat stem sawfly. CDC Abound, CDC Pilar CLPlus, and CDC Succession CLPlus VB are tolerant to the Cleafield herbicides Adrenalin SC and Altitude FX. VB - designates a varietal blend to preserve the *Sm1* orange wheat blossom midge tolerance gene. New CWRS registrations and insufficient data to describe: AAC Dutton VB (BW1094), AAC Hassler (PT496) and PT5003. = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91), and * = pending PBR protection. XX - Insufficient data to describe. † Flagged for possible removal in 2024.

CANADA WESTERN HARD WHITE SPRING WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% AAC Brandon) Low < 77 (bu/ac)	Yield Category (% AAC Brandon) High ≥ 77 (bu/ac)	Agronomic Characteristics: Maturity Rating (Days +/- AAC Brandon)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Stripe Rust	Fusarium Head Blight
Yield and agronomic data only directly comparable to AAC Brandon																
AAC Brandon (bu/ac)			**76**	**60**	**96**											
AAC Brandon - check	**2022**	**86**	**100**	**100**	**100**	**104**	**14.0**	**63**	**40**	**84**	**Y**	**G**	**P**	**S**	**MR**	**MR**
AAC Cirrus	2019	37	93	91	96	0	-0.2	62	42	91	Y	G	VG	I	**MR**	**MR**
AAC Iceberg	2014	37	90	XX	XX	-1	-0.6	63	46	102	Y	G	F	**R**	S	I
AAC Tomkins*	2022	19	88	81	97	-1	0.1	62	37	86	Y	VG	G	**MR**	MS	I
AAC Whitehead VB*	2022	19	103	96	110	-1	-0.7	62	41	86	Y	VG	G	**R**	**MR**	I
Snowbird †	2003	94	87	XX	XX	-1	0.2	61	39	88	N	VG	G	I	**R**	**MR**
Whitehawk †	2013	42	93	XX	XX	0	-0.5	63	41	84	Y	F	F	I	**MR**	I

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the *Sm1* orange wheat blossom midge tolerance gene. = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91), and * = pending PBR protection. XX - Insufficient data to describe. † Flagged for possible removal in 2024.

CANADA PRAIRIE SPRING RED WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% AAC Brandon) Low < 77 (bu/ac)	Yield Category (% AAC Brandon) High ≥ 77 (bu/ac)	Agronomic Characteristics: Relative Maturity (Days +/- AAC Brandon)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Stripe Rust	Fusarium Head Blight
Yield and agronomic data only directly comparable to AAC Brandon																
AAC Brandon (bu/ac)			**79**	**58**	**95**											
AAC Brandon	**2022**	**194**	**100**	**100**	**100**	**104**	**14.0**	**64**	**40**	**84**	**Y**	**G**	**P**	**S**	**MR**	**MR**
5700PR	2004	117	102	XX	XX	-1	-1.3	62	42	85	Y	VG	F	**R**	S	MS
AAC Crossfield	2017	37	105	105	105	-1	-1.4	62	42	85	Y	G	P	I	**R**	I
AAC Entice †	2015	38	101	101	100	-1	-1.2	62	41	83	Y	G	P	S	**R**	I
AAC Foray VB †	2015	41	112	XX	XX	2	-1.6	63	51	91	Y	G	G	I	**MR**	I
AAC Goodwin	2018	38	108	107	109	-1	-0.6	63	41	85	Y	VG	G	MS	**R**	I
AAC Penhold	2022	81	102	97	105	0	-0.7	64	43	77	Y	VG	VG	**R**	I	**MR**
AAC Perform*	2022	16	105	XX	106	2	-1.6	65	40	88	Y	VG	XX	I	**MR**	MS
AAC Rimbey VB*	2022	28	110	XX	112	0	-1.9	65	44	86	Y	G	VG	I	**R**	I
AAC Westlock*	2022	28	111	XX	113	1	-1.3	65	45	86	Y	G	XX	**R**	**R**	**MR**
Accelerate* VUA	2022	42	107	103	108	0	-1.1	64	36	80	Y	G	F	S	**R**	I
CDC Reign	2022	30	103	98	106	2	-0.9	63	37	86	Y	VG	G	S	I	I
Forefront	2022	16	102	XX	104	2	-1.2	65	42	81	Y	VG	F	I	**R**	MS
SY Rorke	2021	29	105	101	107	1	-1.4	61	37	85	Y	F	F	MS	S	I

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the *Sm1* orange wheat blossom midge tolerance gene. = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91), * = pending PBR protection, and VUA = Variety Use Agreement applied (http://seeds-canada.ca/variety-use-agreement/). XX - Insufficient data to describe. † Flagged for possible removal in 2024.

CANADA NORTHERN HARD RED WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% AAC Brandon): Low < 77 (bu/ac)	Yield Category (% AAC Brandon): High ≥ 77 (bu/ac)	Agronomic Characteristics: Maturity Rating (Days +/- AAC Brandon)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Stripe Rust	Fusarium Head Blight
Yield and agronomic data only directly comparable to AAC Brandon																
AAC Brandon (bu/ac)			**78**	**59**	**97**											
AAC Brandon	**2022**	**99**	**100**	**100**	**100**	**104**	**13.9**	**63**	**40**	**84**	**Y**	**G**	**P**	**S**	**MR**	**MR**
AC Foremost	2019	37	103	100	105	-1	-1.6	62	42	75	Y	VG	F	**R**	S	S
Muchmore* †	2011	24	96	94	XX	0	-0.9	63	37	75	Y	VG	G	**R**	**MR**	MS

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. *On Aug. 1, 2021 the CWRS variety, Muchmore, was reclassified to the CNHR class. For more information see the Canadian Grain Commission website www.grainscanada.gc.ca. Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage, Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for bunt should be treated with a systemic seed treatment to reduce the potential for infection. = Protected by PBR (UPOV 78). XX - Insufficient data to describe. † Flagged for possible removal in 2024.

CANADA WESTERN SPECIAL PURPOSE WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% AAC Brandon) Low < 77 (bu/ac)	Yield Category (% AAC Brandon) High ≥ 77 (bu/ac)	Agronomic Characteristics: Relative Maturity (Days +/- AAC Brandon)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Stripe Rust	Fusarium Head Blight
Yield and agronomic data only directly comparable to AAC Brandon																
AAC Brandon (bu/ac)			**83**	**50**	**93**											
AAC Brandon	**2022**	**41**	**100**	**100**	**100**	**104**	**14.0**	**63**	**40**	**84**	**Y**	**G**	**P**	**S**	**MR**	**MR**
AAC Awesome VB	2018	37	128	124	129	0	-2.5	62	44	92	Y	G	P	I	**R**	I
Alderon	2018	37	128	116	131	4	-2.8	58	41	81	N	VG	F	MS	**MR**	MS
Pasteur	2021	41	120	115	122	3	-2.0	61	41	85	N	VG	G	S	**MR**	I
Sparrow VB †	2018	37	128	122	130	4	-2.6	60	41	85	N	VG	G	I	**MR**	MR
WPB Whistler	2021	27	120	113	122	3	-2.6	59	41	78	N	VG	G	I	**R**	MS

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the *Sm1* orange wheat blossom midge tolerance gene. = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91). XX - Insufficient data to describe. † Flagged for possible removal in 2024.

CANADA WESTERN AMBER DURUM WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% Strongfield) Low < 77 (bu/ac)	Yield Category (% Strongfield) High ≥ 77 (bu/ac)	Agronomic Characteristics: Maturity Rating (Days +/- Strongfield)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Stripe Rust	Fusarium Head Blight
Yield and agronomic data only directly comparable to Strongfield															
Strongfield (bu/ac)			**68**	**54**	**100**										
Strongfield † ♦	**2022**	**177**	**100**	**100**	**100**	**107**	**14.5**	**62**	**44**	**86**	**F**	**F**	**MR**	**MR**	**S**
AAC Congress Ⓥ	2017	18	102	101	102	1	-0.5	63	44	86	P	P	**R**	**R**	MS
AAC Donlow Ⓥ	2022	19	111	112	108	1	-0.5	63	42	86	G	G	**R**	**R**	MS
AAC GoldNet Ⓥ	2022	24	108	108	109	1	0.0	62	43	90	G	G	**R**	**R**	S
AAC Grainland Ⓥ	2020	11	97	97	XX	1	-0.5	62	43	86	F	G	**R**	**R**	MS
AAC Schrader Ⓥ*	2022	16	111	111	110	1	-0.2	62	42	90	G	F	**MR**	**R**	I
AAC Spitfire Ⓥ	2016	21	98	98	XX	0	-0.6	61	46	83	G	F	**R**	**R**	S
AAC Stronghold Ⓥ	2022	26	104	101	108	1	-0.4	63	44	84	VG	G	I	**MR**	MS
AAC Succeed VB Ⓥ	2019	11	103	105	XX	0	0	63	45	88	F	F	**R**	I	MS
AAC Weyburn VB Ⓥ*	2022	28	107	110	102	1	-0.9	62	43	86	F	G	**R**	**R**	MS
AC Navigator	2007	25	95	97	93	2	-0.6	63	45	77	F	G	**R**	**R**	S
Brigade ♦	2020	75	102	102	100	2	-0.8	63	46	93	F	F	**R**	**MR**	MS
CDC Alloy Ⓥ	2019	17	98	97	99	1	-0.1	63	43	87	F	F	**R**	**R**	MS
CDC Covert Ⓥ	2022	21	108	110	104	0	-0.4	62	40	86	G	G	**R**	**R**	S
CDC Credence Ⓥ	2019	11	102	104	XX	1	-0.5	63	42	92	F	F	**R**	**MR**	MS
CDC Defy Ⓥ	2021	18	105	106	102	0	-1.0	63	42	90	G	F	**R**	I	MS
CDC Dynamic Ⓥ	2018	14	94	94	94	0	0.4	62	43	88	F	G	**R**	**MR**	MS
CDC Flare	2021	11	104	99	XX	0	-0.6	62	44	86	VG	F	**R**	**MR**	MS
CDC Fortitude Ⓥ	2015	26	103	103	103	1	-0.8	63	45	83	F	F	**R**	**R**	MS
CDC Vantta Ⓥ*	2022	9	102	XX	XX	4	-0.7	62	42	76	VG	G	**R**	**R**	MS
Transcend ♦	2022	55	101	102	99	1	0.2	62	42	92	F	G	**R**	**R**	MS

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. Generally, durum wheat is best adapted to southern Alberta. Outside of this area, durum tends to be late maturing and often subject to quality loss. Durum varieties are generally more susceptible to Fusarium Head Blight than CWRS wheat varieties. AAC Grainland, AAC Stronghold, CDC Fortitude and AAC Weyburn VB have a solid stem that confers resistance to the wheat stem sawfly. VB - designates a varietal blend to preserve the *Sm1* orange wheat blossom midge tolerance gene. CDC Flare is tolerant to the Clearfield herbicides Adrenalin SC and Altitude FX. New registrations and insufficient data to describe: AAC Antler (DT2015). ♦ = Protected by PBR (UPOV 78), Ⓥ = Protected by PBR (UPOV 91), and Ⓥ* = pending PBR protection. XX - Insufficient data to describe. † Flagged for possible removal in 2024.

CANADA WESTERN SOFT WHITE SPRING WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% AAC Brandon): Low < 77 (bu/ac)	Yield Category (% AAC Brandon): High ≥ 77 (bu/ac)	Agronomic Characteristics: Maturity Rating (Days +/- AAC Brandon)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to: Lodging	Resistance to: Sprouting	Disease Tolerance: Bunt	Stripe Rust	Fusarium Head Blight
Yield and agronomic data only directly comparable to AAC Brandon																
AAC Brandon (bu/ac)			**83**	**54**	**94**											
AAC Brandon ♦	**2022**	**57**	**100**	**100**	**100**	**104**	**14.0**	**64**	**40**	**84**	**Y**	**G**	**P**	**S**	**MR**	**MR**
AAC Chiffon VB Ⓥ	2015	39	125	XX	XX	0	-3.5	62	46	97	Y	G	P	S	**MR**	S
AAC Indus VB † Ⓥ	2017	34	130	120	134	2	-3.3	61	42	93	Y	VG	P	MS	**R**	MS
AAC Paramount VB Ⓥ	2019	39	125	116	127	0	-3.0	61	41	89	Y	VG	P	S	**R**	MS
AC Andrew	2022	57	119	113	122	1	-3.1	62	40	85	Y	VG	P	S	**I**	I
Sadash VB ♦	2019	39	125	118	127	0	-3.2	63	40	88	Y	VG	P	S	**R**	S

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. Varieties rated Intermediate (I) to Susceptible (S) for bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the *Sm1* orange wheat blossom midge tolerance gene. Plant Breeders Rights: ♦ = Protected by PBR (UPOV 78), Ⓥ = Protected by PBR (UPOV 91). XX - Insufficient data to describe. † Flagged for possible removal in 2024.

MALTING BARLEY

Variety	2 or 6 row	Awn Type	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% CDC Copeland)		Agronomic Characteristics:					Disease Tolerance:						
						Low < 113 (bu/ac)	High ≥ 113 (bu/ac)	Maturity Rating (Days +/- CDC Cope-land)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resis-tance to Lodg-ing	Loose Smut	Other Smuts	Scald	Net Blotch: Spot form	Net Blotch: Net form	Spot Blotch	Fusarium Head Blight
Yield and agronomic data only directly comparable to CDC Copeland																			
CDC Copeland (bu/ac)					**110**	**83**	**135**												
CDC Copeland	2	R	2022	182	100	100	100	98	51	50	84	F	MS	I	S	I	I	S	I
AAC Connect	2	R	2019	48	101	102	100	-1	51	50	80	G	S	**R**	S	**MR**	I	**MR**	**MR**
AAC Prairie *	2	R	2022	23	103	105	102	0	52	50	79	F	S	**MR**	MS	I	**MR**	I	I
AAC Synergy	2	R	2022	65	106	110	105	0	52	51	80	F	S	I	S	R	**MR**	**R**	I
AB BrewNet	2	R	2022	49	107	106	107	3	50	50	86	G	MS	**MR**	I	I	MS	I	**MR**
AC Metcalfe	2	R	2021	159	98	100	96	0	52	48	79	F	**R**	I	S	I	S	I	I
CDC Bow	2	R	2016	38	101	102	100	0	51	48	77	VG	S	I	MS	**MR**	S	I	I
CDC Churchill	2	R	2020	32	110	107	111	0	52	49	74	G	MS	**MR**	S	**MR**	**MR**	I	MS
CDC Copper	2	R	2020	32	108	118	106	-1	51	49	72	G	I	**MR**	MR	**MR**	**MR**	I	MS
CDC Fraser	2	R	2017	37	106	107	105	0	51	49	76	G	**R**	**MR**	MS	**MR**	**MR**	**R**	I
CDC Goldstar	2	R	2019	34	108	109	107	-1	53	49	86	G	I	**R**	S	**MR**	I	I	MS
CDC PlatinumStar	2	R	2016	38	103	105	100	0	53	49	82	F	S	**R**	S	**MR**	I	S	**MR**
Cerveza †	2	R	2011	39	106	105	106	0	51	46	74	F	**R**	**R**	S	**MR**	MS	**R**	I
Legacy †	6	SS	2007	55	99	97	101	-2	49	39	82	G	I	**MR**	S	**MR**	S	**MR**	MS
RGT Planet *VUA	2	R	2022	17	112	118	109	2	51	54	72	G	NT	NT	NT	NT	NT	NT	NT
Torbellino	2	R	2022	26	106	112	103	2	50	52	69	G	S	**R**	I	MS	MS	MS	S

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. In 2021 the check cultivar was changed to CDC Copeland. All previously tested varietes were adjusted relative to CDC Copeland based on the relative difference between AC Metcalfe and CDC Copeland since 1999. Varieties rated Intermediate (I) to Susceptible (S) for smuts should be treated with a systemic seed treatment to reduce the potential for infection. The Canadian Malting Barley Technical Centre (CMBTC) evaluates and recommends malting barley varieties for industry acceptance. Please refer to the 2022-2023 CMBTC Recommended Malt Barley Variety List for more information. = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91), * = pending PBR protection and VUA = Variety Use Agreement applied (http://seeds-canada.ca/variety-use-agreement/). † Flagged for possible removal in 2024.

FEED AND FOOD BARLEY

Variety	2 or 6 row	Awn Type	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% CDC Copeland) Low < 113 (bu/ac)	Yield Category (% CDC Copeland) High ≥ 113 (bu/ac)	Agronomic Characteristics: Maturity Rating (Days +/- CDC Copeland)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Disease Tolerance: Loose Smut	Other Smuts	Scald	Net Blotch: Spot form	Net Blotch: Net form	Spot Blotch	Fusarium Head Blight
Yield and agronomic data only directly comparable to CDC Copeland																			
CDC Copeland (bu/ac)					**110**	**83**	**135**												
CDC Copeland	**2**	**R**	**2022**	**182**	**100**	**100**	**100**	**98**	**51**	**50**	**84**	**F**	**MS**	**I**	**S**	**I**	**I**	**S**	**I**
AB Advantage	6	S	2020	32	108	104	110	1	50	50	95	G	**MR**	I	I	I	MS	I	S
AB Cattlelac	6	SS	2021	29	103	100	104	-1	50	45	89	G	I	**R**	I	**MR**	MS	**R**	S
AB Hague *	2	R	2022	38	111	110	111	2	52	50	84	G	**MR**	**R**	I	I	I	I	**MR**
AB Prime *	2	R	2022	29	114	122	111	2	52	51	85	F	S	**R**	I	I	**MR**	I	I
AB Tofield	6	S	2021	24	108	106	109	0	50	45	82	G	**MR**	**MR**	I	I	MS	I	S
AB Wrangler	2	R	2021	30	107	110	105	0	52	50	78	F	MS	**MR**	MS	I	I	**MR**	**MR**
AC Ranger †	6	S	2003	48	104	XX	XX	1	49	43	74	F	MS	I	MS	**MR**	I	**MR**	S
Altorado	2	R	2019	60	110	109	110	0	52	49	77	G	**MR**	**MR**	S	I	S	S	I
Amisk †	6	SS	2015	32	103	101	105	0	49	46	69	VG	S	MS	I	**MR**	I	**MR**	S
Bighorn *	2	R	2022	38	113	117	111	1	53	54	84	F	I	**R**	S	I	I	I	I
Brahma	2	R	2014	67	109	108	110	0	53	47	74	G	MS	**R**	S	I	I	S	I
Canmore	2	R	2015	33	103	101	105	0	52	49	73	G	**R**	**R**	**MR**	**MR**	MS	I	I
Cantu *	2	R	2022	38	116	122	114	2	53	53	84	G	I	**R**	S	I	I	I	I
CDC Austenson	2	R	2022	87	107	106	108	2	52	51	80	G	S	**R**	S	**R**	MS	**MR**	I
CDC Coalition	2	R	2009	42	105	104	106	1	53	47	74	G	**R**	**MR**	S	**MR**	S	I	I
CDC Cowboy	2	R	2008	61	92	93	92	1	52	55	103	F	MS	**MR**	MS	**MR**	I	I	**MR**
CDC Durango *	2	R	2022	31	112	108	113	3	52	51	79	G	S	**R**	MS	MS	**MR**	I	I
CDC Maverick	2	S	2013	31	92	88	96	1	54	55	98	F	S	**R**	MS	**MR**	I	I	**MR**
CDC Renegade *	2	S	2022	26	106	114	101	2	51	53	89	F	I	**MR**	S	**MR**	I	MS	**MR**
CDC Trey †	2	R	2009	88	101	100	102	-1	52	50	80	G	MS	**R**	MS	**R**	I	I	I
Claymore	2	R	2017	72	111	108	112	1	52	47	80	G	S	**R**	S	I	S	MS	**MR**
CONLON	2	S	2007	53	91	89	93	-4	52	52	80	G	I	I	S	**MR**	I	S	**MR**
Esma * VUA	2	R	2022	26	115	119	112	1	51	53	68	VG	NT	NT	NT	NT	NT	NT	NT
Gadsby †	2	R	2012	34	109	110	108	0	53	51	83	F	**R**	**R**	**R**	**MR**	MS	S	I
Ibex *	2	R	2022	38	110	113	109	1	53	54	83	G	S	**R**	S	I	I	I	I
KWS Kellie * VUA	2	R	2022	26	119	126	115	3	50	52	65	VG	NT	NT	NT	NT	NT	NT	NT
Oreana	2	R	2019	72	108	105	109	2	53	51	67	VG	S	**R**	S	**MR**	S	I	S
Sirish	2	R	2020	48	111	111	111	1	52	49	70	VG	S	**R**	**MR**	MS	MS	MS	MS
Sundre †	6	S	2007	51	109	106	113	1	51	43	86	G	MS	**R**	**R**	I	S	I	S

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. In 2021 the check cultivar was changed to CDC Copeland. All previously tested varietes were adjusted relative to CDC Copeland based on the relative difference between AC Metcalfe and CDC Copeland since 1999. Varieties rated Intermediate (I) to Susceptible (S) for smuts should be treated with a systemic seed treatment to reduce the potential for infection. New registrations and insufficient data to describe: RGT Asteroid, AB Standswell (SR18524) and AAC Lariat (TR19268). = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91) and * = pending PBR protection, VUA = Variety Use Agreement applied (http://seeds-canada.ca/variety-use-agreement/). XX - Insufficient data to describe. NT - Not tested for disease, until a full rating is generated assume that the variety is very susceptible to the disease. † Flagged for possible removal in 2024.

OATS

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% CS Camden)		Agronomic Characteristics:					
				Low < 115 (bu/ac)	High ≥ 115 (bu/ac)	Maturity Rating (Days +/- CS Camden)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Tolerance to Smuts
MILLING											
			Yield and agronomic data only directly comparable to CS Camden								
CS Camden (bu/ac)			**123**	**89**	**149**						
CS Camden	**2022**	**76**	**100**	**100**	**100**	**100**	**40**	**41**	**99**	**VG**	**I**
AAC Douglas	2021	21	101	99	102	0	39	43	101	G	**R**
AAC Wesley*	2022	21	98	96	99	1	40	40	94	G	**R**
AC Morgan	2022	42	106	104	107	1	41	43	104	VG	I
CDC Arborg	2022	30	107	106	107	0	41	41	108	VG	**R**
CDC Endure	2020	27	106	XX	106	0	41	41	105	G	**R**
CDC Ruffian	2019	48	100	103	98	2	41	40	97	F	**R**
Kalio*	2022	9	94	XX	XX	1	40	39	98	G	NT
ORe3542M	2019	28	94	95	94	0	40	42	97	VG	**R**
OReLevel48	2022	9	90	XX	XX	0	40	40	98	G	**R**
FEED											
AC Mustang	2019	51	103	105	102	1	43	41	120	G	I
CDC Nasser	2013	24	108	112	101	2	37	38	103	G	**MR**
FORAGE											
CDC Baler	2006	19	90	92	88	2	39	43	110	XX	S
CDC Haymaker	2015	22	95	98	88	2	39	46	111	F	**MR**

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. In 2021 the check cultivar was changed to CS Camden. All previously tested varieties were adjusted relative to CS Camden based on the relative difference between CDC Dancer and CS Camden since 2014. Varieties rated Intermediate (I) to Susceptible (S) for the smuts should be treated with a systemic seed treatment to reduce the potential for infection. New registration and insufficient data to describe: OT7104, OT2134, CDC Anson (OT3112), and Kyron (CFA1207). = Protected by PBR (UPOV 78), = Protected by PBR (UPOV 91) and * = pending PBR protection. NT - Not tested for disease, until a full rating is generated assume that is variety is very susceptible to the disease. XX - Insufficient data to describe.

SPRING TRITICALE

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Yield Category (% Brevis)			Agronomic Characteristics:						Disease Tolerance:		
			Overall Yield	Low < 101 (bu/ac)	High ≥ 101 (bu/ac)	Maturity Rating (Days +/- Brevis)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to: Lodging	Resistance to: Sprouting	Stripe Rust	Bunt	Fusarium Head Blight
Yield and agronomic data only directly comparable to Brevis														
Brevis (bu/ac)			**107**	**75**	**139**									
Brevis	**2022**	**120**	**100**	**100**	**100**	**107**	**60**	**46**	**93**	**G**	**F**	**MR**	**R**	**I**
AAC Delight	2018	31	97	95	98	1	58	53	97	G	P	**R**	**R**	I
AB Stampeder (H)	2022	32	95	95	94	-2	56	47	93	G	F	**R**	**R**	MS
Bunker (P)	2009	49	71	XX	XX	0	57	48	107	F	F	**MR**	**R**	I
Pronghorn	2011	120	80	XX	XX	0	55	43	98	G	F	**MR**	**R**	**MR**
Sunray	2013	33	89	92	85	-1	57	45	94	VG	F	**MR**	**R**	MS
Taza (P)	2013	33	88	90	84	1	57	47	100	G	F	**MR**	**R**	S
Tyndal (P)	2020	23	91	84	96	1	57	42	102	G	P	**MR**	**R**	MS

Remarks: For explanations on data summarization methods and other information, please see the comments in the introduction to the Regional Variety Trials. Brevis yields about 25 per cent more than CWRS wheat in areas of adaptation. AB Stampeder, AAC Delight, Bunker, Taza and Tyndal have heads with reduced-awns which may be beneficial when harvested as forage or silage. All varieties are susceptible to ergot. Current testing does not suitably differentiate genetically controlled resistance to ergot infection (varietal differences) from other factors such as weather, crop development stage, inoculum load and management. (P) = Protected by PBR (UPOV 78), (H) = Protected by PBR (UPOV 91). XX - Insufficient data to describe.

CANADA WESTERN RED WINTER WHEAT

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield (bu/ac)	Yield Category (% Radiant) Low <80 (bu/ac)	High >80 (bu/ac)	Agronomic Characteristics: Winter Survival	Maturity (d)	Protein (%)	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Disease Tolerance: Stripe Rust	Leaf Rust	Stem Rust	Bunt	Fusarium Head Blight
Yield and agronomic data only directly comparable to Radiant																	
Radiant (bu/ac)			**76**	**61**	**95**												
Radiant	**2022**	**279**	**100**	**100**	**100**	**VG**	**220**	**12**	**63**	**35**	**89**	**VG**	**S**	**S**	**S**	**S**	**S**
AAC Coldfront (P)*	2022	27	111	112	110	VG	0	0.4	64	34	83	VG	**R**	**MR**	**R**	S	I
AAC Elevate †	2020	118	106	105	106	G	-1	-0.2	63	38	82	VG	S	I	**MR**	**MR**	I
AAC Gateway	2022	107	99	97	101	F	-2	1.0	63	33	76	VG	**MR**	I	**MR**	S	I
AAC Goldrush	2021	55	101	99	103	VG	-2	0.6	63	35	85	G	I	**R**	**MR**	S	I
AAC Network (P)*	2022	50	104	103	105	VG	1	0.7	63	32	76	G	**R**	**MR**	**R**	**MR**	I
AAC Vortex (P)*	2022	42	105	107	102	VG	-1	0.6	64	36	84	VG	**R**	**R**	**R**	S	**MR**
AAC Wildfire (P)	2022	75	112	115	110	VG	2	0.2	64	38	85	G	**MR**	I	S	**MR**	**MR**
Emerson †	2016	101	97	98	97	G	0	0.7	64	30	86	VG	**MR**	I	**R**	S	**R**
Moats †	2016	118	104	102	107	G	-1	0.7	64	33	91	F	**MR**	**MR**	**R**	MS	S
CANADA WESTERN EXPERIMENTAL																	
Yield and agronomic data only directly comparable to Radiant																	
AAC Icefield	2021	72	103	99	106	F	-0	-0.6	63	33	80	G	**MR**	**MR**	**R**	S	I
CANADA WESTERN SPECIAL PURPOSE																	
Yield and agronomic data only directly comparable to Radiant																	
Pintail	2016	79	108	106	110	VG	-0	-1.4	61	29	88	F	**MR**	MS	MS	S	S

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments in the introduction to the Regional Variety Trials. Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before Sept. 15) and if there is adequate snowfall. Varieties with poor (P) winter survival are generally not suitable outside of southern Alberta. The long term average maturity for Radiant is 220 days after Jan. 1 (Aug. 8) and is considered to be late maturing. Fusarium head blight infection may be reduced if varieties with Intermediate (I) resistance or better are used and when recommended seeding dates are followed. Radiant and AAC Elevate have tolerance to the wheat curl mite, the vector for Wheat Streak Mosaic Virus. To preserve the effectiveness of the wheat curl mite tolerance gene, agronomic practices that eliminate the "green bridge" of plant material that serves as a reservoir for mites should be followed whenever possible. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. AAC Wildfire expresses tolerance to some biotypes of Russian wheat aphid. Radiant and AAC Wildfire express bronze chaff at maturity. AAC Icefield, a hard white winter wheat, is eligible for experimental grades to facilitate market research under an Identity Preserved system. AAC Icefield expresses high milling yield of very white flour and good gluten strength at lower protein concentrations that may be of interest in some niche markets. For more information contact FP Genetics. Pintail has an awnless head which may improve palatability when harvested for forage or silage. New winter wheat registrations: AAC Coldfront (W601). = Protected by PBR (UPOV 78), (P) = Protected by PBR (UPOV 91), and (P)* = pending PBR protection. † Flagged for possible removal in 2024.

FALL RYE

Variety	Hybrid or OP Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% Hazlet) Low < 95 (bu/ac)	High ≥ 95 (bu/ac)	Agronomic Characteristics: Winter Survival	Test Weight (lb/bu)	TKW (g)	Falling Number (sec)	Height (cm)	Resistance to Lodging
Yield and agronomic data only directly comparable to Hazlet												
Hazlet (bu/ac)				**94**	**67**	**121**						
Hazlet	**OP**	**2022**	**75**	**100**	**100**	**100**	**EX**	**59**	**38**	**168**	**106**	**VG**
Brasetto	Hybrid	2016	20	123	XX	122	EX	59	35	267	96	VG
KWS Bono	Hybrid	2022	45	137	139	135	EX	59	34	250	94	VG
KWS Daniello †	Hybrid	2019	18	125	122	126	VG	59	35	271	94	VG
KWS Gatano (P)*	Hybrid	2019	21	130	139	124	EX	59	33	253	91	G
KWS Receptor	Hybrid	2021	13	130	122	XX	EX	59	33	233	94	VG
KWS Sandor	Hybrid	2021	13	127	121	XX	EX	59	33	248	95	VG
KWS Serafino (P)*	Hybrid	2022	28	133	132	135	EX	59	34	275	97	VG
KWS Trebiano (P)*	Hybrid	2022	28	130	129	131	EX	59	36	250	99	VG
Prima	OP	2022	66	86	82	91	EX	58	33	208	118	G

Remarks: For explanations on data summarization methods and other information, please see the comments in the introduction to the Regional Variety Trials. Hazlet has lower viscosity which improves feed performance in monogastric livestock. Fall rye is generally more cold tolerant than winter wheat and winter triticale. The long term average heading and maturity dates for Hazlet are June 1 and Aug. 6, respectively. All fall rye varieties are similar for heading and maturity and are considered early. Sprouting is a major factor in marketing rye for milling and is generally measured using the Hagberg falling number test and is measured in seconds. Typically, a falling number of 180 seconds or greater is preferred by the rye milling market. Falling number is heavily influenced by moisture around harvest time so producers should ensure that rye is harvested in a timely manner, similar to wheat crops. There's considerable variation in fall rye varieties for falling number that should be considered if milling markets are targeted. All fall rye is susceptible to ergot, however KWS Daniello, KWS Gatano, KWS Serafino, KWS Tebiano, KWS Receptor and KWS Sandor have reduced susceptibility for natural ergot infection. AFSC crop insurance deadlines for seeding fall rye is Sept. 20, north of the Bow River and Sept. 30, south of the Bow River. (P)* = pending PBR protection. XX - Insufficient data to describe. † Flagged for possible removal in 2024.