

## Regional Variety Trials - Cereals

### Objectives:

1. To detail agronomic characteristics of new varieties and proven varieties in a specific geographic area.
2. To provide information on new varieties to local producers.
3. To conduct these tests yearly to produce long-term data.

### Background:

The regional variety trials have been grown in the Lakeland since 1991. Each variety is tested for three years against a common check variety that is kept in the trial long-term. Each year new varieties are added, and older ones are removed from the trial. How a variety does relative to the check variety can be used as a comparison between varieties that were not grown in the trial at the same time.

The information gathered from these trials is important for producers first, to aid in crop variety selection and, second, to improve economic returns. Determining the cereal varieties that are best suited to production in the LARA area will aid producers in making the most economical decisions for their operations.

The data presented in the following tables is a useful tool for comparing varieties to each other. Information should not be used to determine how much a variety will yield, but **rather as a comparison of how one variety will yield in relation to another**. The tables will tell how a certain variety yields statistically compared to another variety.

### 2014 Results:

**Table 1.** 2-Row Barley St. Paul, 2014.

Variety	Category	Yield (bu/acre)		Yield % Metcalfe	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
AAC Synergy	Malt	113	a	228	50	46.44	75	1
TR10214	Malt	112	a	113	49	45.56	80	1
TR11127	Malt	112	a	113	49	47.76	74	1
Xena	Feed	112	a	113	50	46.24	71	1
Champion	Feed	109	ab	110	51	43.96	71	1
TR07921	Malt	109	ab	110	49	46.84	95	1
TR12733	General	104	bc	105	49	45.24	74	1
Canmore	Feed and Forage	103	bc	104	51	44.12	73	1
Brahma	Feed	102	bc	103	50	46.88	72	1
TR12735	General	100	c	101	50	43.84	63	1
AC Metcalfe	Malt	99	c	100	50	42.52	77	1
ABI Voyager	Malt (hulless)	99	c	100	49	44.28	72	1
HB623	Hulless	82	d	83	60	43.04	88	1
CV: 4.73								

**Table 2.** 2-Row Barley Fort Kent, 2014.

Variety	Category	Yield (bu/acre)	Yield % Metcalfe	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
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AAC Synergy	Malt	136	a	137	50	49	75	1
TR11127	Malt	129	ab	130	49	48	83	3
Canmore	Feed and Forage	128	ab	129	50	48	75	1
TR10214	Malt	125	b	126	47	45	76	1
TR12735	Feed and Forage	120	bc	121	49	46	73	1
Champion	Feed	115	c	116	49	44	68	3
TR12733	Feed and Forage	115	c	116	47	41	76	3
TR07921	Malt	114	c	115	48	44	85	2
Xena	Feed	114	c	115	50	47	78	5
Brahma	Feed	104	d	105	50	48	68	5
ABI Voyager	Malt (hullless)	100	d	101	48	46	75	3
AC Metcalfe	Malt	99	d	100	49	42	69	2
HB623	Hullless	81	e	82	60	47	85	7
CV: 5.56								

**Table 3.** 6-Row Barley St. Paul, 2014.

Variety	Category	Yield (bu/acre)		Yield % Metcalfe	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
Amisk	Feed and Forage	112	a	115	46	46	65	1
Vivar	Feed	108	ab	111	49	45	72	1
Breton	Malt	107	ab	110	50	47	78	1
BT596	Feed and Forage	104	bc	107	49	43	75	1
AC Metcalfe	Malt	97	c	100	49	44	77	1
CV: 4.25								

**Table 4.** 6-Row Barley Fort Kent, 2014.

Variety	Category	Yield (bu/acre)		Yield % Metcalfe	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
Breton	Malt	149	a	151	47	49	88	3
Vivar	Feed	142	ab	143	48	48	73	3
Amisk	Feed and Forage	140	b	141	44	44	71	3
BT596	Feed and Forage	131	c	132	48	45	70	5
AC Metcalfe	Malt	99	d	100	49	44	71	5
CV: 4.01								

**Table 5.** HRS Wheat St. Paul, 2014.

Variety	Yield (bu/acre)		Yield % AC Barrie	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
AAC Brandon	73	a	118	63	40	85	1
AAC Elie	73	a	118	63	41	83	1
Titanium	68	ab	110	62	40	86	1
CDC Plentiful	66	bc	106	63	36	88	1
PT637	65	b-e	105	63	37	89	1
PT769	65	bcd	105	61	40	101	1
HW363	64	b-f	103	61	41	79	1
5605HR CL	63	b-g	102	63	37	96	1
BW487	63	b-g	102	63	36	90	1
Cardale	63	b-g	102	62	42	85	1
AC Barrie	62	b-g	100	62	29	92	1
BW957	62	b-g	100	63	40	87	1
Thorsby	62	b-g	100	63	35	90	1

AAC Iceberg	61	c-g	98	62	41	90	1
BW479	61	c-g	98	63	39	90	1
BW961	60	c-g	97	62	42	83	1
PT245	60	c-g	97	60	36	81	1
CDC Whitewood	59	c-g	95	62	39	87	1
AAC Bailey	58	d-g	94	61	38	95	1
AAC Prevail	58	efg	94	62	37	105	1
AAC Redwater	57	fg	92	63	37	86	1
Katepwa	57	fg	92	61	39	98	1
PT765	56	g	90	62	37	100	1
CV: 6.96							

**Table 6.** HRS Wheat Fort Kent, 2014.

Variety	Yield (bu/acre)		Yield % AC Barrie	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
Cardale	85	a	104	61	36	88	1
AC Barrie	82	ab	100	62	39	98	1
5605HR CL	82	ab	100	62	36	99	1
AAC Prevail	82	ab	100	62	37	101	1
BW479	81	ab	99	62	41	102	1
AAC Brandon	80	abc	98	62	33	81	1
HW363	79	abc	96	61	39	88	1
PT637	78	abc	95	62	36	96	1
PT245	77	abc	94	61	38	85	1
BW957	76	a-d	93	61	37	83	1
BW961	76	abc	93	62	37	98	1
CDC Plentiful	76	a-d	93	62	34	94	1
AAC Redwater	75	bcd	91	62	34	90	1
Thorsby	75	bcd	91	62	36	94	1
AAC Bailey	74	bcd	90	59	34	100	1
AAC Elie	74	bcd	90	63	33	87	1
Katepwa	73	bcd	89	62	34	101	1
AAC Iceberg	71	cde	87	63	36	86	1
BW487	71	cde	87	61	35	93	1
PT769	71	cde	87	59	34	96	1
Titanium	67	de	82	61	34	95	1
CDC Whitewood	64	ef	78	62	35	87	1
PT765	56	f	68	61	32	93	1
CV: 7.46							

**Table 7.** Utility wheat St. Paul, 2014.

Variety	Yield (bu/acre)		Yield % AC Barrie	TWT (lbs/bu)	1000 k (g)	Height (cm)	Lodging
AAC Chiffon	98	a	142	60	41	98	1
AAC Innova	95	ab	138	60	44	85	1
Pasteur	93	abc	135	61	42	81	1
AC Andrew	92	abc	133	59	40	84	1
HY1610	91	bc	132	61	49	89	1
AC Enchant	87	cd	126	61	45	97	1
AAC NRG097	86	cd	125	59	42	79	1
SY087	83	de	120	61	40	86	1
AAC Proclaim	82	de	119	62	39	96	1
AAC Ryley	81	de	117	61	51	88	1
HY1319	79	ef	114	61	46	75	1
AAC Crusader	79	ef	114	61	41	82	1
SY995	79	ef	114	60	42	79	1
SY985	77	ef	112	61	45	82	1
AAC Tenacious	72	fg	104	60	42	99	1

