Technical Bulletin

Genes that fit *your* farm.

SeCan
Canada's Seed Partner

Gadsby

2-Row Feed Barley

Description:
Gadsby is a 2-row, rough awned, general purpose barley, well adapted to the Brown and Black Soil Zones of western Canada. Gadsby has excellent disease resistance combined with good grain yields and feed quality

Strengths:
- Grain yield 113% of Seebe
- Biomass yield 110% of Seebe
- Test weight, kernel weight and % plump are higher or similar to Xena
- Starch and digestibility energy are higher than Xena
- Lower total fiber content than Xena

Neutral Traits:
- Taller taller than check varieties
- Moderate resistance to common root rot, stem rust and stripe ruse.

Weaknesses:
- Lodging is less than Xena
- Moderately susceptible to net blotch and spot blotch
- Susceptible to barley yellow dwarf

Breeder:
Dr. P.E. Juskiw and Dr. J.H. Helm
Field Crop Development Centre
Lacombe, Alberta

2008-09 Western Cooperative Two-Row Barley Registration Trials

Variety	Yield (% AC Metcalfe All Sites)	Heading (days)	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	1000 Kernel Weight (gm)	Test Weight (kg/hl)	% Plump	NIT Protein
CDC Copeland	109	60.4	97.9	84.4	5.9	47.5	65	92.8	11.1
Xena	116	58.4	98.1	77.8	4.6	48	66.5	91	11.8
AC Metcalfe	100	58.9	98.2	79.8	4.8	46	66.2	90.1	11.4
Gadsby	**110**	**60.7**	**98.7**	**86.5**	**5.9**	**53.1**	**66.3**	**95.3**	**12.1**

2008-09 Agronomic data from Field Crop Development Centre trials

Variety	Grain Yield (kg/ha)	Heading (days)	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	1000 Kernel Weight (gm)	Test Weight (kg/hl)	% Plump	Silage Yield (kg/ha)
Seebe	6647	58.9	107.1	88.8	5.9	50.5	66.2	91.9	16409
Gadsby	**7512**	**58.7**	**104.6**	**89.2**	**5.9**	**55.3**	**66.8**	**95.4**	**18051**

For more information, call 1-800-665-7333 or visit www.secan.com

2015 Saskatchewan Varieties of Grain - Barley Comparison

Variety	# Rows	Awn Type	Yield (% of AC Metcalfe) Area 1&2	Yield (% of AC Metcalfe) Area 3&4	Relative Maturity	Lodging	Net Form Net Blotch	Spot-Form Net Blotch	Spot Blotch	Scald	Loose Smut	Other Smuts	Root Rot	Stem Rust	Tolerance To FHB
AC Metcalfe	2	R	100	100	M	G	VP	F	F	P	VG	F	F	G	F
CDC Austenson	2	R	118	121	M	G	P	VG	G	VP	VP	VG	F	F	F
CDC Cowboy	2	R	99	105	L	F	F	G	F	P	P	G	F	G	G
CDC Helgason	2	R	105	106	M	G	G	G	F	P	VG	G	F	F	P
Xena	2	R	112	115	M	G	VP	F	VP	P	P	P	G	G	G
Gadsby	**2**	**R**	**110**	**110**	**M**	**F**	**P**	**G**	**VP**	**VG**	**VG**	**VG**	**F**	**G**	**F**

M=Medium; L=Late; F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor

2015 Alberta Seed Guide – Feed Barley Comparison

Variety	2 or 6 Row	Awn	All sites	Station Years	Low <60 bu/ac	Medium 60-90 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac	Maturity Days +/- AC Metcalfe	Test Weight lb/bu	Kernel Weight g/1000k	Height (cm)	Lodging	Disease Tolerance: Loose Smut	Other Smuts	Root Rot	Scald	Spot Form Net blotch	Net Form Net Blotch	FHB
AC Metcalfe (bu/ac)					**46**	**79**	**103**	**133**												
AC Metcalfe	2	R	100	510	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
CDC Austenson	2	R	112+	65	108	113+	111+	112+	L	54	46	78	G	S	R	I	S	R	MS	I
Ponoka	2	R	108+	120	101	107+	110+	109+	L	51	46	80	G	R	R	I	MR	MR	MS	I
Seebe	2	R	101	229	97	100	102	100	VL	52	50	86	G	S	R	I	MR	MS	S	MR
Xena	2	R	112+	271	111+	109+	114+	112+	M	52	49	77	G	MS	MS	MR	S	I	S	MR
Gadsby	**2**	**R**	**112+**	**45**	**XX**	**114+**	**114+**	**108+**	**M**	**53**	**51**	**83**	**F**	**R**	**R**	**I**	**R**	**MR**	**MS**	**I**

Fl. & Cov. Smut=False Loose & Covered Smuts; R=Rough; G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor
Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

2015 Alberta Seed Guide - Silage Yield Comparison

Variety	Overall Yield	Overall Station Years of Testing	Yield as % of Murphy: Low <2.0 t/ac	Medium 2.0-4.0 t/ac	High >4.0 t/ac	Nutritional Data: CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Vivar (t/ac)	**4**		**1.7**	**3.3**	**5.2**	**10.5**	**66.2**	**0.4**	**0.2**	**1.3**	**0.2**
Vivar	100	25	100	100	100	100	100	100	100	100	100
CDC Austenson	109+	25	121	104	110	101	100	82	106	102	88
Ponoka	106	25	115	101	108	96	99	114	105	102	97
Seebe	105+	25	111	103	105	104	97	102	114	110	87
Xena	103	25	106	103	103	101	100	82	111	97	86
Gadsby	**109+**	**25**	**123**	**105**	**109**	**98**	**99**	**100**	**106**	**99**	**93**

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