

Technical Bulletin

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SeCan

Canada's Seed Partner

ORe3542M White Hulled Milling Oat



Progress Through Research
Le progrès grâce à la recherche

ORe3542M is a short strong strawed white hulled milling oat with good grain yield potential and very plump seed. ORe3542M is the 2nd of 2 new oat varieties from Oat Advantage, a new private breeding program near Saskatoon, SK. ORe3542M is well-suited for production across all of western Canada.

Strengths:

- High percent plump seed greater than all the checks and slightly plumper than ORe3541M
- Very low percent thins, lower than all the checks
- Grain yield greater than the average of the checks
- Very good lodging resistance, better than the checks
- Short strong straw, shorter than all the checks and slightly shorter than ORe3541M
- Resistant to crown rust and smut
- White hull

Neutral Traits:

- Similar maturity to the checks, earlier maturing in Manitoba
- Similar test weight and kernel weight to the checks
- Average groat percentage, slightly lower than the average of the checks

Weaknesses:

- Susceptible to stem rust and BYVD

Breeder:

Jim Dyck
Oat Advantage
Saskatoon, SK

PBR 91 Applied for

Currently undergoing milling evaluations

2013-14 Western Cooperative Oat Test

Entry	Yield as % Average of Checks	Maturity (days)	Lodging 1=best 9=flat	Height (cm)	Test Weight (kg/hl)	% Plump Kernels	% Thin Kernels	% Groat	Resistance to:			
									Stem Rust	Crown Rust	Smut	BYVD
CDC Dancer	97.7	94.8	3.2	113.8	52.4	87.5	3.8	68.8	I	R	R	MS
AC Morgan	102.6	97.5	2.5	111.2	50.2	82.6	4.6	63.4	S	S	I	MS
Leggett	99.3	97.8	3.3	107.0	52.4	83.8	4.0	67.2	I	R	R	MS
ORe3541M	100.6	96.2	2.7	103.1	53.2	92.1	2.8	66.2	S	R	R	MS
ORe3542M	102.3	97.1	2.2	102.5	51.1	94.9	1.9	64.5	S	R	R	S

MR=Moderately Resistant; MS=Moderately Susceptible; S=Susceptible; R=Resistant

2018 Seed Manitoba - Oat Comparison

Variety	Site Years Tested	Yield bu/ac	Maturity +/- 96 days	Height +/- 84cm	Test Wt. +/- 39.3lb/bu	% Hull	Hull Colour	Resistance to:				
								Lodging	Smut	Crown Rust	Stem Rust	BYDV
Leggett	131	144	0	0	0	23.0	White	G	R	R	I	MS
CDC Dancer	16	145	-3	+13	0.5	19.6	White	G	R	I	I	MS
CDC Norseman	30	151	-3	+5	-1.0	20.5	White	G	MS	MR	S	I
ORe3541M	5	148	-2	-2	0.6	23.3	White	VG	R	R	S	MS
Souris	60	143	-4	0	0.5	20.9	White	G	R	MS	MR	MS
Summit	43	149	0	-3	0.5	20.8	White	G	R	I	I	I
ORe3542M	5	150	-1	-2	-1.1	24.4	White	VG	R	R	S	S

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair; R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

2018 Saskatchewan Varieties of Grain - Oat Comparison

Variety	Yield % of CDC Dancer		Test Weight (g/0.5L)	% Hull	% Plump	Maturity Rating	Height (cm)	Resistance to:			
	Area 1 & 2	Area 3 & 4						Lodging	Stem Rust	Crown Rust	Smut
CDC Dancer	100	100	253	19.8	86	M	103	G	I	I	R
AC Morgan	104	108	236	25.1	82	L	101	VG	S	S	I
CDC Norseman	110	108	241	20.0	81	M	102	G	S	MR	MS
ORe3541M	104	99	257	21.5	90	L	93	VG	S	R	R
ORe3542M	108	100	247	22.5	95	L	93	VG	S	R	R

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair; R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

2018 Alberta Seed Guide - Oat Comparison

Variety	Overall Station Years of Testing	Overall Yield	Yield as % of CDC Dancer				Comp Mat (Days)	Test Weight (lb/bu)	Kernel Weight (g/1000)	Height (cm)	Resistance to:	
			Low <70 bu/ac	Medium 70-100 bu/ac	High 100 to 130 bu/ac	Very High >130 bu/ac					Lodging	Smuts
CDC Dancer (bu/ac)		96	49	84	111	148						
CDC Dancer		100	100	100	100	100	E	41	37	95	G R	
AC Morgan	73	113+	113+	110+	114+	115+	M	40	41	91	VG I	
AC [®] Jordan	36	112+	112+	109+	117+	XX	VL	38	44	87	G R	
AC [®] Stride	30	104+	101	102	107	106	M	42	35	104	G R	
CDC Norseman	27	101	XX	100	101	XX	E	41	38	94	G MS	
ORe3541M			INSUFFICIENT DATA									
ORe3542M			INSUFFICIENT DATA									

VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible