

Technical Bulletin

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ORe3541M White Hulled Milling Oat



Progress Through Research
Le progrès grâce à la recherche

ORe3541M is a short strong strawed white hulled milling oat with good grain yield potential and very plump seed. ORe3541M is the 1st of 2 new oat varieties from Oat Advantage, a new private breeding program near Saskatoon, SK. ORe3541M is well-suited for production across all of western Canada.

Strengths:

- High percent plump seed greater than all the checks but slightly lower plump than ORe3542M
- Very low percent thins, lower than all the checks
- Very high test weight, greater than all the checks and ORe3542M
- Very good lodging resistance
- 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
- Grain yield equal to the average of the checks
- Average groat percentage, slightly lower than the average of the checks but greater than ORe3542M

Weaknesses:

- Moderately Susceptible to BYDV
- Susceptible to stem rust

Breeder:

Jim Dyck
Oat Advantage
Saskatoon, SK

PBR 91 Protected

Approved for Milling – contact your local processor/handler for details in your area

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
ORe3542M	102.3	97.1	2.2	102.5	51.1	94.9	1.9	64.5	S	R	R	S
ORe3541M	100.6	96.2	2.7	103.1	53.2	92.1	2.8	66.2	S	R	R	MS

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

2020 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	144	142	0	0	0	23.0	White	G	R	R	I	MS
CDC Dancer	40	137	-3	+13	0.5	19.6	White	G	R	I	I	MS
CDC Norseman	31	149	-3	+5	-1.0	20.5	White	G	MS	MR	S	I
ORe3542M	25	143	-1	-2	-1.1	24.4	White	VG	R	R	S	S
Souris	60	141	-4	0	0.5	20.9	White	G	R	MS	MR	MS
Summit	62	148	0	-3	0.5	20.8	White	G	R	I	I	I
ORe3541M	25	141	-2	-2	0.6	23.3	White	VG	R	R	S	MS

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

2020 Saskatchewan Varieties of Grain - Oat Comparison

Variety	Yield % of CS Camden		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
CS Camden	100	100	242	24.3	82	L	94	VG	S	MS	I
AC Morgan	100	102	236	25.1	82	L	101	VG	S	S	I
CDC Norseman	95	95	241	20.0	81	M	102	G	S	MR	MS
ORe3542M	96	90	247	22.5	95	L	93	VG	S	R	R
ORe3541M	94	88	257	21.5	90	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

2020 Alberta Seed Guide - Oat Comparison

Variety	Overall Station Years of Testing	Overall Yield	Yield as % of CDC Dancer				Maturity Rating (days +/- CDC Dancer)	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)		101	48	84	110	150						
CDC Dancer		100	100	100	100	100	98	41	37	106	G	R
AC Morgan	86	113	114	110	117	114	+3	40	41	104	VG	I
ORe3542M	35	106	XX	XX	111	103	+2	40	42	99	VG	R
ORe3541M	35	103	XX	XX	107	102	+1	41	41	101	VG	R

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