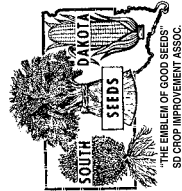


HRW WHEAT VARIETY CHARACTERISTICS 2022

Variety	Year Rel.	Origin	Rust Reaction*		Wheat Streak Mosaic	Relative Heading (0-7)	Straw Strength	Relative Plant Height	Winter Hardiness	End-Use Quality	Chaff Color	PVP**
			Leaf	Stem								
AP 18AX	'18	AP	MR	--	MR	Early 0	Excellent	Short 28"	Good	Acceptable	White	PVP Title V
Draper	'19	SD	MR	MS	MR	Early 2	Excellent	Short 28"	Good-Excellent	Good	White	PVP Title V
Expedition	'02	SD	MS	R	S	Early 0	Fair	Short 29"	Good-Excellent	Good	White	PVP Title V
Ideal	'11	SD	MS	MR	S	Medium 4	Excellent	Short 29"	Good	Acceptable	White	PVP Title V
LCS Chrome	'16	WB	MR	S	R	Early 2	Good	Short 29"	Excellent	Good	White	PVP-94
LCS Photon AX	'18	LCS	S	S	MR	Medium Early 3	Good	Medium 31"	Good	Acceptable	White	PVP Title V
Lyman	'08	SD	MR	R	S	Early 2	Fair	Medium 31"	Good	Acceptable	White	PVP Title V
Oahe	'16	SD	MS	MS	MR	Medium 4	Good	Medium 31"	Good	Acceptable	White	PVP Title V
Overland	'07	NE/SD	MR	MR	S	Medium 4	Good	Medium 30"	Excellent	Acceptable	White	PVP Title V
Redfield	'13	SD	MS	MR	MS	Medium 4	Excellent	Short 28"	Good-Excellent	Good	Brown	PVP Title V
SD Andes	'20	SD	--	MS	MR	Medium 4	Excellent	Short 29"	Excellent	Acceptable	Brown	PVP Title V
SD Midland	'21	SD	MS	MS	R	Medium 4	Excellent	Medium 31"	Excellent	Good	Brown	PVP*
SY517CL2	'17	SYN/AP	MR	R	MS	Early 2	Good	Short 26"	Good	Acceptable	White	PVP Title V
SY Monument	'14	SYN/AP	MR	R	MR	Early 2	Good	Short 27"	Good-Excellent	Acceptable	White	PVP Title V
SY Wolf	'11	SYN/AP	R	MR	S	Medium Early 3	Excellent	Short 28"	Good-Excellent	Acceptable	White	PVP Title V
SY Wolverine	'19	SYN/AP	MS	MR	MS	Early 2	Excellent	Short 27"	Good-Excellent	Acceptable	White	PVP Title V
Thompson	'17	SD	MR	MS	MS	Medium 4	Fair	Medium 31"	Good	Acceptable	White	PVP Title V
WB4418	'17	WB	R	MR	MR	Early 0	Good	Short 26"	Good	Good	White	PVP-94
WB4462	'16	WB	MR	--	S	Early 0	Good	Medium 30"	Good	Good	White	PVP-94
WB-Grainfield	'12	WB	MR	MR	MS	Early 0	Good	Short 28"	Good	Good	White	PVP-94
Winner	'19	SD	MR	MR	MR	Early 2	Excellent	Short 29"	Good-Excellent	Good	White	PVP Title V

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

PVP** - PVP Title V - Certification Option - to be sold by variety name only as a class of Certified Seed. PVP-94 without Title V. Yes* - application pending/anticipated.

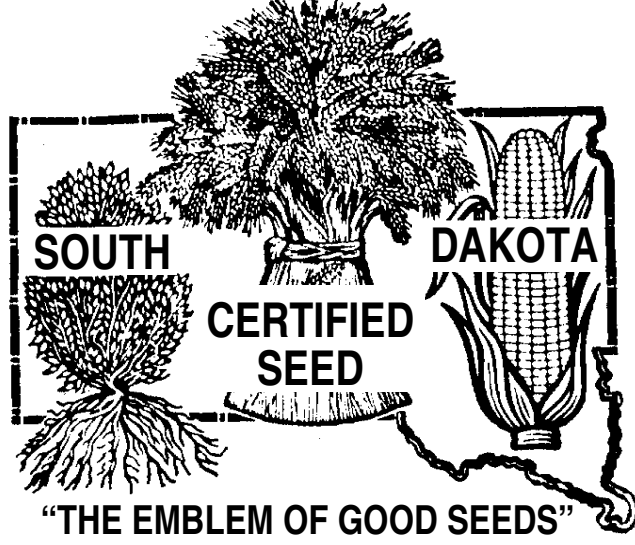


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2022 CERTIFIED SEED
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