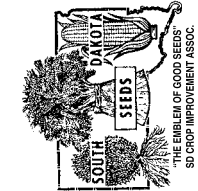


HRW WHEAT VARIETY CHARACTERISTICS 2020											
Variety	Year	Origin	Rust Reaction*	Wheat Streak Mosaic	Relative Heading (0-7)	Straw Strength	Relative Plant Height	Winter Hardiness	End-Use Quality	Chaff Color	PVP**
AP503 CL2.....	AP	'08	S MR MS	MS	Medium Early 3	Excellent	Short 28"	Good	Acceptable	White	PVP Title V
Draper.....	SD	'19	MR MS MR	-	Early 2	Excellent	Short 28"	Good-Excellent	Good	White	Yes*
Expedition.....	SD	'02	MS R S	S	Early 0	Fair	Short 29"	Good-Excellent	Good	White	PVP Title V
Ideal.....	SD	'11	MS MR S	S	Medium 4	Excellent	Short 29"	Good	Acceptable	White	PVP Title V
Keldin.....	WB	'13	MR -- MR	-	Medium 4	Excellent	Short 29"	Excellent	Acceptable	White	PVP Title V
LCS Chrome.....	WB	'16	MR S R	S	Early 2	Good	Short 29"	Excellent	Good	White	PVP-94
LCS Mint.....	LCS	'12	MR MS MS	MR	Early 0	Good	Short 29"	Good	Excellent	White	PVP Title V
Lyman.....	SD	'08	MR R S	S	Early 2	Fair	Medium 31"	Good	Acceptable	White	PVP Title V
Oahe.....	SD	'16	MS MS MR	MR	Medium 4	Good	Medium 31"	Good	Acceptable	White	PVP Title V
Overland.....	NE/SD	'07	MR MR S	MS	Medium 4	Good	Medium 30"	Excellent	Acceptable	White	PVP Title V
Redfield.....	SD	'13	MS MR MS	S	Medium 4	Excellent	Short 28"	Good-Excellent	Good	Brown	PVP Title V
SY517CL2.....	SYN/AP	'17	MR R MS	-	Early 2	Good	Short 26"	Good	Acceptable	White	PVP Title V
SY Monument.....	SYN/AP	'14	MR R MR	MS	Early 2	Good	Short 27"	Good-Excellent	Acceptable	White	PVP Title V
SY Sunrise.....	SYN/AP	'15	MR R MR	MS	Early 2	Good	Short 26"	Good	Acceptable	White	PVP Title V
SY Wolf.....	SYN/AP	'11	R MR S	MR	Medium Early 3	Excellent	Short 28"	Good-Excellent	Acceptable	White	PVP Title V
Thompson.....	SD	'17	MR MS MS	MS	Medium 4	Fair	Medium 31"	Good	Acceptable	White	Yes*
WB4418.....	WB	'17	R MR MS	MR	Early 0	Good	Short 26"	Good	Good	White	PVP-94
WB4462.....	WB	'16	MR -- S	S	Early 0	Good	Medium 30"	Good	Good	White	PVP-94
WB-Grainfield.....	WB	'12	MR MR MS	MR	Early 0	Good	Short 28"	Good	Good	White	PVP-94
Winner.....	SD	'19	MR MR MR	--	Early 2	Excellent	Short 29"	Good-Excellent	Good	White	Yes*

*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.



SDCIA/SEED CERTIFICATION DIVISION

2380 RESEARCH PARK WAY, SUITE 136

BROOKINGS, SD 57006-1785

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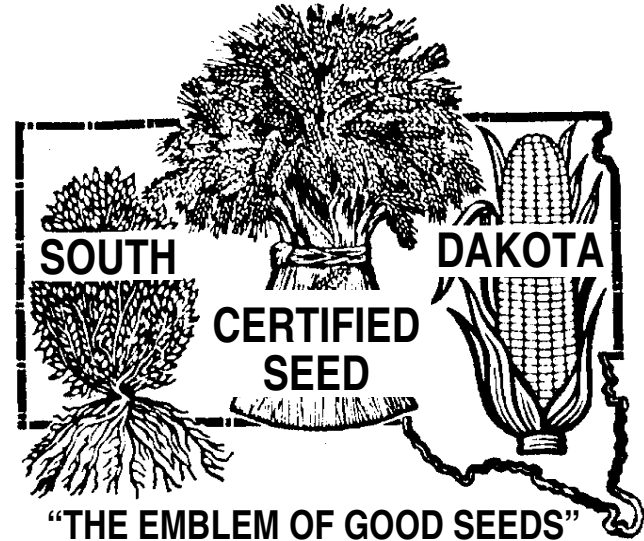
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SOUTH DAKOTA
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WHEATGRASS
ORCHARDGRASS
MEADOW BROME

SUMMER EDITION

THE PURPOSE OF CERTIFICATION

The purpose of Seed Certification is to maintain and make available to the public sources of high quality seeds and propagating materials of superior varieties so grown and distributed as to insure genetic purity and identity. Only those varieties that contain superior germplasm are eligible for certification. Certified seed is high in varietal purity and of good seeding value.

Varieties eligible for certification have resulted either from natural selection or through systematic plant breeding. In either case, without a planned method for maintaining genetic purity, there is grave danger of losing varietal identity.

Varietal purity is the first consideration in Seed Certification, but other factors such as weed seed, diseases, viability, mechanical purity, and grading are also important. One of the most effective methods of preventing the wider distribution of weeds is to plant weed free seed. Adverse effects of plant diseases can be reduced by planting clean seed from disease free fields. Properly cleaned and graded seed is easier to plant and gives more uniform stands.

Seed Certification in SD is designed, therefore, to maintain not only the genetic purity of superior crop varieties but also reasonable standards of seed condition and quality.

PLEASE NOTE!

The following list of seed growers includes only those fields planted with Foundation or Registered seed and who have made application for certification. These fields have passed all inspections to date.

Certification can be completed only after the seed has passed all certification tests and standards. **FINAL CERTIFICATION** will depend on a satisfactory laboratory analysis conducted on representative samples of the conditioned (cleaned) seed lot.

The growers listed will, therefore, accept only tentative orders that will be filled if seed is finally certified. Such seed must be designated by the Certification tag, if bagged or a completed bulk transfer certificate, if seed is sold in the bulk. Seed offered for sale without this documentation cannot be considered Certified Seed.

The South Dakota Crop Improvement Association and Seed Certification Service are not marketing organizations; hence, inquiries for seed should be made directly to the growers listed.

Neither the South Dakota Crop Improvement Association nor the Certification Service assumes any financial responsibility regarding seed listed, although every attempt has been made to insure high quality seed which conforms to the certification standards.

Please report any irregularities.

SDCIA/SEED CERTIFICATION DIVISION
2380 Research Park Way, Suite 136
Brookings, SD 57006-1785
Telephone 605 688 4604

ALLEGIANT 3063 Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Misc.	CHS, Inc, Inver Grove Heights	651-355-5379			X	
AP18 AX Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427			X	
AP503 CL2 Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427			X	X
CP7050 AX Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Sully	Barber, Ken, Onida	605-258-2708		X		
CRESCENT AX Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Spink	Klebsch, Jim, Redfield	605-472-3134				X
DRAPER Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Brule	Christensen Grain Farm Part., Pukwana	605-730-2269				18
Haakon	Hand Brothers Partnership, Midland	605-567-3397				31
Jones	Patterson, Paul, Draper	605-669-2647				30
Jones	Rankin & Sons Inc., Draper	605-669-2511				82
Pennington	Bielmaier Farms, Wall	605-279-2841				70
Sully	Wittler Farms, Agar	605-258-2431				98
Tripp	Jorgensen Land & Cattle, Ideal	605-842-3217				24
Total						353
IDEAL Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Haakon	Golden Willow Seeds Inc., Midland	605-843-2187				36
Tripp	Elevate Agronomics, Inc, Winner	605-840-0373...				21
Tripp	Jorgensen Land & Cattle, Ideal	605-842-3217				21
Total						78
LCS CHROME Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Sully	Barber, Ken, Onida	605-258-2708				X
LCS FUSION AX Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Spink	Klebsch, Jim, Redfield	605-472-3134				X
LCS PHOTON AX Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Jerauld	MPM Certified Seed, Wess Springs	605-770-6537				X
Sully	Barber, Ken, Onida	605-258-2708			X	X
LYMAN Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Tripp	Elevate Agronomics, Inc, Winner	605-840-0373...				135
MTF-1435 Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427				481
OAHE Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Bon Homme	Rothschadl, Keith & Justin, Scotland	605-661-0487				64
Davison	Lorang, Nick, Mt. Vernon	605-770-5794				81
Davison	Strand, Wade, Mitchell	605-996-7533				45
Haakon	Golden Willow Seeds Inc., Midland	605-843-2187				231
Hughes	Bollweg Farms, Harrold	605-875-3440				65
Tripp	Jorgensen Land & Cattle, Ideal	605-842-3217				155
Total						64
OVERLAND Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Pharmco Industries, Platte	605-337-3374				300
Gregory	Matucha, Lance, Burke	605-830-7810				118
Lyman	Herman Agri Inc., Presho	605-869-2305				198
Total						616

RAY Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Butte	Vetter, Jeff, Belle Fourche	605-415-3375			62	
REDFIELD Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Beadle	Gruenhagen, Jason, DeSmet	605-860-9959			142	
Brule	Christensen Grain Farm Part., Pukwana	605-730-2269				100
Charles Mix	Hansum Brothers, Platte	605-680-1023				132
Charles Mix	Pharmco Industries, Platte	605-337-3374				470
Jerauld	Broken Heart Ranch, Wess Springs	605-999-1196			40	
Lyman	Reuman, Drew, Presho	605-280-5330			265	
Potter	REH Farms Inc., Gettysburg	605-765-9552			28	225
Tripp	Elevate Agronomics, Inc, Winner	605-840-0373...			141	
Total					68	1475
SY 517 CL2 Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Lyman	Herman Agri Inc., Presho	605-869-2304			X	
SY MONUMENT Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Lyman	Herman Agri Inc., Presho	605-869-2304			X	
Lyman	Karlen Ranch Partnership, Reliance	605-473-5605				X
Pennington	Yardley & Co, Inc., Quinn	605-386-2375				X
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427				X
Sully	Wittler Farms, Agar	605-258-2431			X	
SY SUNRISE Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Lyman	Karlen Ranch Partnership, Reliance	605-473-5605				X
SY WOLF Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Lyman	Herman Agri Inc., Presho	605-869-2304				X
Pennington	Yardley & Co, Inc., Quinn	605-386-2375				X
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427			X	X
Sully	Wittler Farms, Agar	605-258-2431				X
SY WOLVERINE Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Day	Kuecker Seed Farm, Webster	605-345-3169				X
Gregory	Lubbers Farms, Inc., Gregory	605-830-8782				X
Kingsbury	Midstate Agronomy, DeSmet	605-854-9282			X	
Lyman	Herman Agri Inc., Presho	605-869-2304			X	
Lyman	Karlen Ranch Partnership, Reliance	605-473-5605				X
Pennington	Yardley & Co, Inc., Quinn	605-386-2375			X	
Spink	Nutrien Ag Solutions, Northville	605-887-3422				X
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427			X	X
Sully	Wittler Farms, Agar	605-258-2431			X	
Walworth	Stiegelmeier Farms, Selby	605-845-6034				X
THOMPSON Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Bon Homme	Bauder, Sean, Tyndall	605-670-9186				48
Charles Mix	Hansum Brothers, Platte	605-680-1023				187
Charles Mix	Weber, Alec, Lake Andes	605-660-3198				80
Davison	Lorang, Nick, Mt. Vernon	605-770-5794				218
Pennington	Bielmaier Farms, Wall	605-279-2841				169
Sully	Wittler Farms, Agar	605-258-2431				871
Tripp	Jorgensen Land & Cattle, Ideal	605-842-3217				250
Total						1823
WB-GRAINFIELD Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Gregory	Lubbers Farms, Inc., Gregory	605-830-8782				X
WB4309 Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Gregory	Lubbers Farms, Inc., Gregory	605-830-8782				X
Spink	Klebsch, Jim, Redfield	605-472-3134				X
Walworth	Stiegelmeier Farms, Selby	605-845-6034				X
WB4462 Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Jones	Rankin & Sons Inc., Draper	605-669-2511				X

WINNER Hard Red Winter Wheat				Acres		
County	Name, City	Telephone		F	R	C
Brookings	Foundation Seed Stocks, Brookings	605-688-5418.....				81
Brule	Christensen Grain Farm Part., Pukwana	605-730-2269.....				18
Charles Mix	Clearfield Colony, Delmont	605-770-1193.....				72
Charles Mix	Lakeview Hutterian Brethren, Inc., Lake Andes	605-487-7992.....				120
Codington	Thyen Farms, Watertown	605-520-8159.....				35
Day	Hansmeier & Son, Bristol	605-492-3611.....				354
Douglas	Gronseth, Wayne, Mitchell	605-770-6459.....				22
Gregory	TDK Partnership, Fairfax	605-654-2812.....				149
Haakon	Hand Brothers Partnership, Midland	605-567-3397.....				25
Jerauld	Broken Heart Ranch, Wess Springs	605-999-1196.....				40
Jones	Patterson, Paul, Draper	605-669-2647.....				30
Lyman	Reuman, Drew, Presho	605-280-5330.....				24
Potter	REH Farms Inc., Gettysburg	605-765-9552.....				24
Stanley	Sioux Nation, LLC, Ft. Pierre	605-223-2427.....				77
Sully	Wittler Farms, Agar	605-258-2431.....				98
Tripp	Elevate Agronomics, Inc, Winner	605-840-0373.....				21
Tripp	Jorgensen Land & Cattle, Ideal	605-842-3217.....				20
Total				81	1129	
BRASSETTO Hybrid Rye				Acres		
County	Name, City	Telephone		F	R	C
Misc.	KWS CEREALS USA, LLC, Champaign	952-836-8469.....				X
KWS BONO Hybrid Rye				Acres		
County	Name, City	Telephone		F	R	C
Misc.	KWS CEREALS USA, LLC, Champaign	952-836-8469.....				X
ND DYLAN Rye				Acres		
County	Name, City	Telephone		F	R	C
Beadle	Gruenhagen, Jason, DeSmet	605-860-9959.....			43	103
841446398 Triticale				Acres		
County	Name, City	Telephone		F	R	C
Tripp	Tritle, Carper, Cahill Homestead LLC, Winner	605-208-6116.....			23	460
CACHE Meadow Brome				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				50
PAIUTE Orchardgrass				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				15
EPHRAIM Wheatgrass, Crested				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				16
HYCREST II Wheatgrass, Crested				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				93
MANIFEST Wheatgrass, Intermediate				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				1
OAHE Wheatgrass, Intermediate				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				4
LUNA Wheatgrass, Pubescent				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				18
MANSKA Wheatgrass, Pubescent				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				9
ALKAR Wheatgrass, Tall				Acres		
County	Name, City	Telephone		F	R	C
Charles Mix	Dakota's Best Seed Co., Platte	605-337-3318.....				50