



SHELBY427

Oats

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SHELBY427, a white-hulled spring oat, was developed by the South Dakota Agricultural Experiment Station (SDAES) and released in 2010. Application for Plant Variety Protection is pending.

AGRONOMIC TRAITS:

Shelby427 has a high yield potential, test weight, and groat percentage. The disease ratings include resistance to smut, crown rust, and BYDV, and moderate resistance to stem rust. Shelby427 also has excellent lodging resistance, a medium plant height, and an early maturity. It is a multi-purpose variety that may be used for feed grain, milling oat, companion crop, forage, and/or straw production.

RECOMMENDED CULTURAL PRACTICES:

Do not over fertilize with nitrogen. Total available units of nitrogen should not exceed 120 lbs/acre; this includes legume credits. If liquid nitrogen is applied, the ratio of water to 28% nitrogen should be 2 to 1. The growth stage should be no later than five-leaf stage. Check labels before tank mixing herbicides with 28% nitrogen. Do not use 2,4D or dicamba. Do not plant at a high seeding rate; keep the seeding rate at a maximum of 28 pure live seeds per square foot – excessively high seeding rates increase lodging.

South Dakota 2010 Spring Oat Variety Trials

Origin, variety traits, and disease reactions

Variety	Origin	Rel Hdg *	Grain Color	Prot. %	Bu Wt lbs	Lodging score	Pl.Ht inch	Smut	Stem Rust	Crown Rust	Red Leaf	PVP Status
Shelby427	SD-09	2	White	14.3	37.7	2.9	42	VR	MR	R	MR	pending
Jerry	ND-94	5	White	14.3	35.8	4.2	42	MR	MS	S	MS	Yes
Stallion	SD-06	9	White	14.7	35.6	4.5	43	MR	S	MR	MR	Yes

*Heading- days later than Colt, the check variety for maturity.

South Dakota test locations include: Brookings, South Shore, Miller, Warner, and Selby

VR=Very Resistant, R=resistant, MR=Moderately resistant, MS=Moderately susceptible, S=Susceptible

State of Origin, PVP and Disease Ratings of Varieties.

Variety	State of Origin	PVP	Barley Yellow Dwarf Virus	Crown Rust	Stem Rust	Smut
Jerry	ND	PVP	MS	S	MS	MR
Excel	IN	PVP	MR	IR	S	R
SHELBY427	SD	Pending	MR	R	MR	R
Tack	IL	PVP	MR	PR	--	--
Rockford	ND	PVP	MR	MR	S	R
Saber	IL	PVP	MR	IR	--	S
Souris	ND	PVP	MR	R	MR	R
Spurs	IL	PVP	MS	MS	MS	S
Robust	IN	PVP	R	R	S	MR
Woodburn	IN	PVP	MR	R	S	R

S=Susceptible, MS=Moderately Susceptible, IR=Intermediate resistance, MR=Moderately resistant, R=Resistant

South Dakota 2010 Spring Oat Variety Trials

Spring Oat 2008-2010 Yield Averages from 5 eastern South Dakota locations Average Yield Bu/A

Variety, Heading*	2010	2 Year	3 Year
Souris, 7	154	490	157
HiFi, 8	151	156	156
SHELBY427,2	137	146	146
Beach, 7	128	136	135
Stallion, 9	125	131	131
Colt, 0	126	126	123
Don, 1	115	120	114
Jerry, 5	106	113	112
Reeves, 2	114	119	111
Buff Hls, 3	104	108	105
Streaker Hls, 3	88	98	98
Rockford, 8	155	159	
SD 081949	173		
SD 081936	166		
Test Avg	138	131	126
High Avg	173	160	157
Low Avg	88	98	98

*Heading - days later than Colt, the check variety for Maturity
Hls- Hulless variety