

**MEDIUM RED CLOVER** A good nitrogen producer. Good root system-soil builder. Is a tall clover. Excellent for forage.

**COMMON VETCH** A nitrogen fixing leguminous plant. This hardy plant is often grown as green manure. It is tolerant of light mowing and will regrow in pastures after moderate grazing.

**GERMAN MILLET** An annual grass with slim, vertical, leafy stems. It is a warm season crop that is planted in late spring. Harvest for hay or silage. Does not regrow.

**BUCKWHEAT** Can be harvested for grain or excellent for use as a cover crop.

**FLAX** Is a brown-seeded, blue flowered variety. The variety is early in maturity and fairly tall.

**4010 FORAGE PEAS** A cool season legume developed for the production of high-quality forage for livestock.

**RYE** Also called Winter Rye or Cereal Rye. Scavenger of excess Nitrogen, prevents erosion, adds organic matter and suppress weeds. The hardiest of the cereal grains. Taller and quicker growing than wheat. Available in 3 varieties: Rymin, Dylan, Hazlet

**FORAGE BARLEY** A two-rowed hay barley that is well adapted for a wide variety of growing conditions and climates that produce a high yielding, high quality and uniform hay crop. Forage Barley has a fine stem which aids in feeding and digestibility.

**TRITICALE** There are fall and spring varieties. A cross between wheat and rye and is excellent for Fall/Spring Grazing or for a forage crop.

**TEFF GRASS** A self-pollinated, warm season annual grass which can be harvested multiple times during the growing season as dry hay, silage or pasture. As a fast-growing crop, Teff combines excellent forage quality with high yield during a relatively short growing season.

# SMALL GRAINS



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## CERTIFIED HAYDEN OATS

A white-hulled, spring oat developed by the South Dakota Agricultural Experiment Station (SDAES) and released in 2015. Hayden has medium-late maturity, heading about 4 days later than Shelby 427. Hayden is 2 inches taller than Shelby 427 and 4 inches shorter than Goliath. Hayden has excellent yield potential and high-test weight. Hayden is resistant to smut and BYDV. The variety is moderately susceptible to crown rust and stem rust. Lodging resistance is better than Goliath and similar to Shelby 427.

## CERTIFIED GOLIATH OATS

A white-hulled, spring oat developed by the South Dakota Agricultural Experiment Station (SDAES) and released in 2012. The line was tested as SD090552 and was developed from the two-parent population IL99-1338/SD97575-38-154. Varieties in the pedigree include Rise, Settler and Troy. Goliath has late maturity, heading 1.7 days later than Stallion. Goliath is 4.3 inches taller than Stallion. Goliath has excellent grain yield and forage yield potential, as well as good test weight.

## CERTIFIED SD BUFFALO OATS

The South Dakota Agricultural Experiment Station is releasing a new white oat variety named SD Buffalo to Certified Seed growers in the spring of 2022. SD Buffalo is result from the cross SD081107//SD070394/SD060130 and tested as SD150012. It is two days earlier than Rushmore in maturity, similar in plant height with superior straw strength, but slightly lower in test weight. SD Buffalo ranked 2nd in yield in CPT trials compared to all varieties from 2018-2021. It is moderately resistant to crown rust and the BYD virus and has good milling characteristics.

## CERTIFIED DEON OATS

Deon is a variety of oats developed and released by the Minnesota Agricultural Experiment Station (MAES) in 2012. Deon was selected from a cross Sesqui\*2/Betongy//MN02108. Deon is a yellow seeded oat with medium large sized kernels. Deon has a late maturity. Deon is medium tall and has very high grain yield with medium test weight and medium groat and grain protein percentages. PVT protected.

## CERTIFIED WARRIOR OATS

Warrior oat is a white-hulled, spring oat developed by the South Dakota Agricultural Experiment Station (SDAES) and released in 2018. The line was tested as SD120419 with the pedigree of SD041405/SD060130. Warrior is a medium maturing line, heading about 1 day later than Horsepower. Warrior is 2" taller than Horsepower. Warrior has high yield potential and average test weight. Warrior is moderately resistant to smut and moderately susceptible to BYDV. The variety is resistant to crown rust. Lodging resistance is excellent.

## CERTIFIED RUSHMORE OATS

White-hulled, spring oat developed by the South Dakota Agricultural Experiment Station (SDAES) and released in 2019. Pedigree of SD80015/ SD0070110/SD060130. Rushmore is a medium-late maturing line, heading about 1 day earlier than Hayden. Similar in height to Hayden with better lodging resistance. Rushmore has high-yield potential and good test weight. Resistant to moderately resistant to crown rust and moderately resistant to BYDV and smut.



## JERRY OATS

Jerry oats was developed by the North Dakota Agricultural Experiment Station and released in March of 1994. The line was tested as ND870952. The pedigree of Jerry is Valley/3/RL3038/Kelsey//M22/ Kelsey. Jerry is similar to Newdak in heading date and height and has good lodging resistance. Jerry has white hulls, which are fluorescent under UV light. Kernels have high test weight, groat percent and whole oat protein, but are not as high as Hytest in ND tests. Disease resistance ratings are moderately susceptible for barley yellow dwarf virus (BYD), smut and stem rust. Jerry is susceptible to crown rust. The variety has medium high protein.

## MORTON OATS

Morton oats was developed by the North Dakota Agricultural Experiment Station (NDAES) in cooperation with USDA and released in June 2001. The line was tested as ND941119 and resulted from the cross ND880922/IAB605X. Morton is medium-late in maturity being similar to Troy and two days later than Jerry. The variety has high test weight with groat percent slightly higher than Jerry. Kernels are uniform and large in size with white hulls. Protein percent is similar to Jerry. Morton is a tall oat with good straw strength. The variety is resistant to smut. Morton is moderately resistant to stem rust, crown rust and is moderately susceptible to barley yellow dwarf virus (BYD). Morton is protected under the U.S. Plant Variety Protection Act (PVP-94).

## MUSTANG M-120 FORAGE OATS

It is a late maturing forage oat that has good leaf rust resistance. M-120 oats is a high tonnage forage oat that has out yielded Jerry and Loyal by tons per acre. It is a tall variety with a wide leaf for those extra tons per acre.

### OAT CHARACTERISTICS CHART

Variety	Origin	Year Released	Leaf Rust	Stem Rust	Stripe Rust	Relative Maturity	Straw Strength	Relative Plant Height	Protein	Grain Color	PVP+
HAYDEN	SD	2014	Mod-Resis.	Mod-Sus	Resistant	7	Good	Tall	Medium	White	Yes
GOLIATH	SD	2012	Mod-Resis.	Resistant	Mod-Resis.	9	Good	Tall	Med. High	White	Yes
<b>NEW</b> SD BUFFALO	SD	2021	Mod-Resis.	Resistant	Resistant	6	Very Good	Medium	Medium	White	Pending
DEON	MN	2013	Mod-Sus.	Mod-Resis.	Resistant	9	Good	Tall	Med. High	Yellow	Yes
WARRIOR	SD	2018	Mod-Sus.	-	Resistant	1	Good	Medium	Medium	White	Yes
RUSHMORE	SD	2019	Mod-Sus.	--	Resistant	6	Very Good	Medium	Medium	White	Yes
JERRY	ND	1994	Mod-Resis.	Mod-Sus.	Susceptible	4	Good	Medium	Med. High	White	No
MORTON	ND	2001	Mod-Sus.	Mod-Resis.	Mod-Resis.-Mod-Sus.	7	Very Good	Tall	Medium	White	No
M-120	SD	1990	Mod-Resis.	Susceptible	Susceptible	7	Good	Tall	Medium	White	--