

YEAR 2014 SEED OAT VARIETY YIELD TRIALS – OHIO STATE UNIVERSITY, WOOSTER, OHIO

Source	NAME	YLD			
IN	021A17815	90.9		A	
IN	ROBUST	84.2	B	A	
IL	CORRAL	81.0	B	A	C
IL	SABER	80.6	B	A	C
IL	SABER 1427	79.2	B	A	C
IL	IL06-5433	72.3	B		C
OH	ARMOR	71.7	B		C
IL	OGLE	67.6		D	C
WI	BADGER	66.5		D	C
IN	EXCEL	65.3		D	C
IN	NOBLE	55.7		D	
	AVERAGE	74.1			
	R2	0.6			
	CV	13.3			
	MSerror	97.3			
	LSD (0.05)	14.2			

Mean with a common letter are not significant different from each other

OTHER VARIETAL CHARACTERISTICS

Variety	Test Weight	Plant Height (In.)	Straw Strength	Rel. Heading Date	Crownrust	Stem Rust	B. Yellow Dwarf	Hull Color
Armor	Med.	29.5	Very Strong	6/9	Susc.	Susc.	Res.	Yellow
Blaze	High	27.9	Medium	6/8	Susc.	-	Tolerant	Yellow
Burton	High	29.8	Strong	6/10	Susc.	Susc.	M. Res.	Yellow
Gooding	High	38.6	Very Strong	6/7	Susc.	Some Res.	M. Res.	Yellow
Ida	High	30.9	Strong	6/9	-	Some Res.	Very Res.	White
Noble	High	29.4	Strong	6/8	Susc.	M. Susc.	M. Res.	Yellow
Ogle	Med.	28.9	Strong	6/8	Susc.	Susc.	Very Res.	Yellow
Corral	High	25.9	Strong	6/7	Susc..	-	Tolerant	Light Yellow
Saber	Very Good	28.0	Strong	6/6	Mod. Res.	-	Tolerant	Light Yellow
Vista	Med.	35.9	Medium	6/10	Res.	Susc.	Tolerant	Yellow

CERTIFIED SEED OAT VARIETY DESCRIPTIONS

Armor* - It is stiff-strawed with excellent yield potential, exceeding Ogle, Porter and Noble by an average of 4%, 13%, and 19%, respectively, in Ohio tests. Armor is a midseason cultivar with medium height. It is resistant to BYDV but susceptible to crown rust. Released: Ohio, 1991. Out-of-state producers must pay a royalty fee.

Badger – Badger is an early season oat developed at the University of Wisconsin released in 2010. It has a heading date that is one day earlier than Kame. Badger has had consistently high grain yields and excellent test weight. Lodging percentage is about equal to Vista. Badger is one inch shorter than Kame. Badger has good barley yellow dwarf virus tolerance and very good crown rust resistance. Badger is a U.S. Protected Variety (PVPA, 1994) . Seed of Badger can legally be produced and labeled for sale only by growers who have been licensed by the Wisconsin Crop Improvement or its legal agent.

Blaze - is tan seeded variety, released by the Illinois Agricultural Experimental Station that matures about the same as Ogle. Yield and test weight of Blaze are higher than Ogle. Blaze is tolerant to barley yellow dwarf virus. Blaze is one to two inches shorter than Ogle, but lodging resistance of Blaze is not as good as Ogle under high fertility. Up to 0.5 percent non-fluorescent seeds allowed. Recognized classes of seed are Foundation and Certified. Title V Plant Variety Protection covered under PVPA 1994 has been applied for.

Buckskin* – is a spring oat variety adapted to the Midwestern U.S. and released by the Ill. Ag. Exp. Station. It is a tan-seeded variety combining excellent yield potential with very good test weight and good barley yellow dwarf virus tolerance and crown rust resistance. Compared to Ogle, in 27 tests across the spring oat growing region in 2004 and 2005, Buckskin average 12 bu./A higher yield and 2.4 lb./bu. higher test weight. Buckskin is about two days later than Ogle and is about the same height as Ogle. It is tolerant to barley yellow dwarf virus and moderately susceptible to loose smut. Lodging resistance is similar to Ogle or somewhat lower than Ogle under high fertility.

Burton – A high yielding line with midseason maturity averaging two days later than Ogle and Noble. Excellent test weight averaging over 36 lbs./bu. in Ohio tests. Some resistance to BYDV and loose smut but susceptible to stem and crown rust. Released: Ohio, 1996.

Corral - (IL00-7267) - Corral is a spring oat variety that was developed by the University of Illinois Agricultural Experiment Station and is a joint release with the New York State Agricultural Experiment station at Cornell University. Corral has been evaluated in Illinois, Minnesota, and New York. It is intended for production in New York, Pennsylvania and similar northeastern environments. Corral is tolerant to barley yellow dwarf virus. It is susceptible to moderately susceptible to corn rust, depending on prevalent local races, and is susceptible to loose smut. Corral has light yellow kernels with seed characteristics most similar to Ogle. Up to 0.5% tall variants and are allowed and up to 0.5% fluorescent seeds are allowed. Corral will be released as a public variety and seed classes to be produced are limited to Foundation and Certified. The New York Seed Improvement Project is responsible for producing breeder and Foundation seed stock.

Excel – was developed cooperatively by the Purdue University Agricultural Research Programs and the USDA-ARS. Excel is a very high yielding, moderately early, medium tall, has light tan (considered white) hulls that fluoresce in UV light; is awnless with awnlets on few florets, has strong straw, and has resistance to crown rust, yellow dwarf viruses and loose smut, and is susceptible to stem rust. Excel is widely adapted and high yielding throughout the Midwest and southern Canada.

Gooding – (OH1149) yellow oats were released in 2004 from Ohio State University, based on its yield, excellent test weight and lodging resistance. Gooding has shown equal yield potential to that of Armor, and to have yield potential superior to other cultivars. In addition, Gooding has superior test weight and lodging resistance, it is moderately resistant to Barely Yellow Dwarf Virus, has some resistance to smut and appears susceptible to Crown Rust. Gooding is a three generation variety (F, R, & C) with a royalty rate of \$0.10 per 32 lb. bushel of seed sold. Variants of up to 0.5% will be allowed in the seed of this variety.

Kona – is a new traditional forage and spring type oat that produces bright green foliage. Kona has demonstrated Barley Yellow Dwarf virus resistance in field tests and has shown tolerance to crown rust. Kona oats are similar to Jerry Oats. This variety is exclusively licensed to a U.S. firm and is U.S. protected Variety (PVPA 1994). Certificate No. 201100374.

Noble* - Achieves good yield and good test weight. Stiff medium-short straw, moderate resistance to barley yellow dwarf and some oat rusts. Medium-early in maturity. Released: Indiana, 1973.

Ogle – Excellent yield, medium maturity, and has stiff straw. It is widely adaptable, shows excellent yield, and exhibits excellent resistance to the barley yellow dwarf virus. It is susceptible to most current races of rust and loose smut. Released: Illinois 1981.

Robust - is a high yielding, lodging resistant spring oat variety released in 2006 by Purdue University. The variety is moderately early in maturity, has high test weight and is adapted to the Mid-Northern areas of the Midwest region including Ontario. Robust is resistant to Crown Rust and Yellow Dwarf viruses, moderately resistant to Loose Smut and is susceptible to Stem Rust. Lemmas of Robust are very light tan, and fluoresce in UV light; and are awnless, although an occasional lemma has a small awnlet. The variety has been uniform for plant characteristics and disease resistance. Up to 0.5% variants are allowed.

Rodeo – is a mid-season spring oat variety released by the University of Illinois Ag. Experiment Station and the USDA. Maturity is approximately two days later than Ogle and plant height is slightly taller than Ogle. Test weight is about the same as Ogle. It is moderately tolerant to barley yellow dwarf virus and more resistant to crown rust than Ogle. Up to 0.5 percent taller plants are allowed. Recognized classes of seed are Foundation and Certified. Title V Plant Variety Protection covered under PVPA 1994 has been applied for.

Saber - IL02-8658 - Saber is an early maturing high yielding oat variety developed by the University of Illinois Agricultural Experiment Station. Over the last two years Saber was placed in the top LSD group at 15 of 16 locations and was the highest yielding line numerically in 10 of 18 locations. The pedigree of Saber is Tack/Spurs. Saber is about two days earlier than Jay and has the same heading date as Don. It is about 4cm shorter than Chaps. The test weight of Saber is very good and has been about 1.4 lbs./bu. higher than Jay and about 2.2 lbs./bu. higher than Chaps. Saber is tolerant of BYDV with an average of 3.1 (0-9 scale where 0=very tolerant) compared to 4.5 for Jay and Chaps. Saber is susceptible to loose smut and is moderately resistant to crown rust. Saber has light yellow kernels with kernel color similar to Ogle, and the variant allowed is 0.5% talls. Saber will be released as a public variety. Seed stock will be maintained by the Agricultural Alumni Seed Improvement Association, Inc. A royalty is charged for the sale of Certified class seed.

Spurs – is an oat variety released by the Illinois Agricultural Experiment Station. This variety has high yield potential combined with good test weight and tan to white kernel color. Spurs is moderately early and has moderately short plant type. The pedigree of Spurs is Jay/Rodeo. Spurs is about one day earlier and one inch shorter than Blaze. The barley yellow dwarf virus tolerance and crown rust resistance of Spurs is similar to Blaze. Recognized classes of Certified seed are Foundation and Certified. The PVP statement for Spurs is “Unauthorized propagation prohibited. U.S. variety protection applied for PVPA 1994.”

Tack *- is a spring oat variety adapted to the Midwestern U.S. and released by the Ill. Ag. Exp. Station. It is a tan-seeded variety very good yield potential with exceptionally high test weight and good barley yellow dwarf virus tolerance and crown rust resistance. Compared to Ogle, in 27 tests across the spring oat growing region in 2004 and 2005, Tack averaged 12 bu./A higher yield and 2.5 lb./bu. higher test weight. It is about one to three days earlier than Ogle and is about the same height as Ogle. It is tolerant to barley yellow dwarf virus. Lodging resistance is similar to Ogle.

VISTA - is a mid-late season oat variety released by the University of Wisconsin-Madison in 1999. Vista has consistently shown high grain yields in Wisconsin statewide tests with seed test weights similar to Belle. Vista heads two days later than Ogle. Plant height is similar to Troy with lodging similar to Gem. Vista has excellent crown rust resistance and tolerance to barley yellow dwarf virus. Seed of Vista can legally be produced and labeled for sale only by growers who have been licensed by the Wisconsin Crop Improvement Association to its legal agent. Vista is a three generation variety (F, R & C) with a royalty due the originator.

*U.S. Protected Variety - Must be sold as Certified Seed.