

Other conventional soybean varieties

released by the North Dakota
Agricultural Experiment Station:

Cavalier – (2008). 00.7 maturity. Good yield, with good lodging resistance and yellow hila. Resistant to race 3 and 4 to phytophthora root rot

Sheyenne – (2007). 0.8 maturity. Good yielding variety and has resistance to Race 3 of phytophthora root rot. It has yellow hila.

ProSoy – (2005). 0.7 maturity. A conventional variety with characteristics that make it suitable for the tofu specialty market. Similar maturity to Sargent with nearly equal yield and better iron deficiency chlorosis tolerance.

For information on the availability of Foundation seed contact:

NDSU Research/Extension Centers

Agronomy Seed Farm, Casselton.....347-4743
Carrington Research Extension Center.....652-2951
Hettinger Research Extension Center.....567-4323
Langdon Research Extension Center.....256-2582
North Central Research Ext. Center.....857-7679
Williston Research Extension Center.....774-4315

Or

NDSU Foundation Seedstocks Project

P.O. Box 6050, Fargo, ND 58108-6050
(701) 231-8140
www.ag.ndsu.nodak.edu/aginfo/seedstock/fss/

Plant Quality Certified Seed

Certified seed is field inspected and lab analyzed to help ensure variety identity, germination, and purity. Contact your local seed producer or dealer for quality certified seed.

Seed producers or dealers can be found in the North Dakota Field Inspected Seeds Directory. The directory is available from the North Dakota State Seed Department (NDSSD), North Dakota Crop Improvement & Seed Association, your local county agent, or under the field seeds program of the NDSSD website.

www.ndseed.com



Varieties protected under PVP with Title V option can only be sold as a certified class of seed. **It is the responsibility of the buyer and/or seller to confirm the PVP status of a specific crop variety prior to buying or selling the variety.** PVP status information can be obtained from the ND State Seed Department.

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AGRICULTURE

Ashtabula

Conventional Soybean



www.ndcropimprovement.org

Ashtabula

Conventional Soybean

Ashtabula is a conventional soybean variety (not resistant to glyphosate) released by the North Dakota Agricultural Experiment Station in 2009.

Ashtabula has the pedigree ND95-952/Council. It has purple flower color, grey pubescence, brown pods, yellow hila and dull seed coat luster.

Ashtabula is high yielding compared to Walsh and Barnes. Ashtabula is lower yielding than Sheyenne, but is 5 days earlier in maturity. Ashtabula will fill a need for a high-yielding cultivar in areas that need a cultivar which is earlier in maturity than Sheyenne.

Ashtabula is moderately resistant to iron-deficiency chlorosis and has the Rps6 gene for phytophthora root rot resistance. The Rps6 gene is superior to Rps1c and Rps1k, because it confers resistance to races of phytophthora root rot that are common in the Red River Valley. Ashtabula is resistant to races 3, 4, and 25 of phytophthora root rot.

To help ensure genetic purity, Ashtabula Soybean will be protected under PVPA Title V and must be sold as a class of certified seed. A fifty cent per bushel research fee will apply to all Registered and Certified Seed sales. This fee will be collected by the North Dakota State Seed Department.

Development of this variety was made possible through funds provided by the North Dakota Soybean Council.

Ashtabula

General Characteristics

- High yield
- 0.4 Maturity
- Yellow Hila
- Good tolerance to iron-deficiency chlorosis
- Resistance to phytophthora root rot

Agronomic performance of Ashtabula and commercial varieties averaged across several North Dakota locations, 2005-2008.

	Yield (bu/A)	Maturity (date)	Lodging* Score	IDC** Score
# of sites	24	24	9	4
Ashtabula	42.3	18-Sept	1.2	2.2
Barnes	39.4	17-Sept	1.3	3.3
Sheyenne	47.4	23-Sept	1.2	2.5
Walsh	36.5	15-Sept	1.2	2.5

*Lodging Score: 1-upright, 5-flat on ground.
 **Iron chlorosis score: 1-best, 5-worst.

For additional information

about Ashtabula and other soybean varieties, refer to the most recent North Dakota Soybean Performance Testing circular www.ext.nodak.edu/extpubs/plantsci/rowcrops/a843w.htm or contact the Soybean breeder or extension agronomist at 701-231-797

Agronomic performance of Ashtabula and other conventional varieties averaged across Uniform Regional Nursery, 2007-2008.

	Yield (bu/A)	Maturity (date)	Lodging* Score	Plant Height (inches)	Seed Size (seeds/lb)	Protein** (%)	Oil** (%)
# of sites	13	13	8	7	7	6	6
Ashtabula	48.3	14-Sept	1.6	28	2,520	35.1	18.6
Surge	51.3	21-Sept	2.1	27	1,950	36.8	18.1
Traill	40.9	11-Sept	1.9	27	2,450	37.2	17.2

*Lodging Score: 1-upright, 5-flat on ground.
 **Protein and oil content on a 13% moisture basis.