

Other conventional soybean varieties

released by the North Dakota Agricultural Experiment Station:

LaMoire – (2004) Maturity Group 0.7, high yield potential with good standability and IDC tolerance.

Walsh – (2001) Maturity Group 0.0, excellent disease package with better yield than Trill.

Barnes – (2000) Maturity Group 0.3, high yield, excellent disease package including protection against phytophthora root rot.

Jim – (1998) Maturity Group 00.7, five days earlier than Trill, good yield, and resistance to lodging and shattering.

Trill – (1997) Maturity Group 0.0, excellent seedling vigor and tolerance to iron deficiency chlorosis.

For information on the availability of Foundation seed contact a Foundation seed representative at:

(All 701 area codes)

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
NDSU Campus Office 231-8140

NDSU Foundation Seedstocks Project

P.O. Box 5051

Fargo, ND 58105-5051

www.ag.ndsu.nodak.edu/aginfo/seedstock/fss/

Plant Quality Certified Seed

Certified seed is a guarantee for 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.

NDSU[®]

AGRICULTURE

Pembina

Conventional Soybean



www.ndcropimprovement.org

Pembina

Conventional Soybean

Pembina is a conventional soybean variety (not resistant to glyphosate) developed by the NDSU soybean breeding program and released by the North Dakota Agricultural Experiment Station in the spring of 2005. Pembina was selected from the progeny of the cross: ND93-5849/Pioneer9004.

Through several years of testing, Pembina has shown to be a good yield performer which matures three days earlier than 'Jim'. The Rps4 gene found in Pembina provides resistance to phytophthora root rot races 1 through 4. Pembina also provides a fair level of protection against iron deficiency chlorosis.

Pembina has the potential to provide growers who are faced with a short growing season, such as those in the northern-most regions of North Dakota, with a variety that will mature quickly and perform well under a range of different stresses.

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

For additional information

about Pembina and other soybean varieties, refer to the most recent North Dakota Soybean Performance Testing circular (A-843) or at www.ext.nodak.edu/extpubs/plantsci/rowcrops/a843w.htm or contact the

Pembina

General Characteristics

- Very early maturity (00.5) which offers an advantage to producers in the northern-most regions
- Good yield potential for such an early soybean
- Rps4 gene which confers resistance to races 1-4 of phytophthora root rot
- Good tolerance to iron deficiency chlorosis
- Purple flower color, gray pubescence, and brown pods
- Shiny seed coat and yellow hilum



Agronomic performance of Pembina conventional soybean averaged across NDSU trials conducted 2001-2004

	Yield (bu/ac)	Maturity (Date)	Lodging ¹	Protein ²	Oil ²	Height	IDC ³
Pembina	29.4	10-Sept	1.6	37.6	16.8	21	2.8
Jim	31.5	13-Sept	1.8	37.7	16.3	23	2.5
Traill	35.3	17-Sept	1.8	38.4	16.3	23	2.1
(Station years)	(21)	(21)	(4)	(4)	(4)	(8)	(4)

¹Lodging scored on a visual basis with 1 being best and 5 being worst.

²Protein and oil determined on a 13% moisture basis.

³Iron deficiency chlorosis score: 1=best, 5=worst.