

Other edible bean varieties released by the North Dakota Agricultural Experiment Station:

Avalanche – (2008). Navy bean with medium maturity, high yields, nice seed shape and size. It possesses erect architecture with uniform dry-down. It is resistant to BCMV and moderately resistant to rust.

Lariat – (2007). Pinto bean with medium maturing, high yields and upright architecture with synchronous dry-down. It is resistant to leaf rust and BCMV.

Stampede – (2007) Pinto Bean with medium maturing, high yields. Resistant to BCMV. It has erect plant structure and synchronous dry-down.

Eclipse – (2004). Black Bean with medium maturity, very erect, tall growth, and good resistance to lodging.

~~**Arthur** – (2000). Navy bean with medium maturity, very erect, tall growth, and good resistance to lodging.~~

Maverick – (1996) Medium-early, semi-prostrate pinto bean with maturity similar to Othello. Resistant to rust, but susceptible to BCMV. Small seed size with canning quality better than Othello.



For information on the availability of Foundation seed, North Dakota and Minnesota growers contact:

NDSU Foundation Seedstocks Project
P.O. Box 5051, Fargo, ND 58051
701-231-8140
www.ag.ndsu.nodak.edu/aginfo/seedstock/fss/

Treasure Valley Seed Company Inc. has exclusive rights to produce and distribute seed of ND-307 outside of North Dakota and Minnesota States. For information please call 208-337-4626.

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 PVPA 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

ND-307

Pinto Bean



www.ndcropimprovement.org

ND-307 Pinto Bean

ND-307 is a pinto bean variety released by the North Dakota Agricultural Experiment Station (NDAES) in 2008.

ND-307 is a line selected from the cross USPT-CBB-3/Matterhorn//Maverick, which was made in 1999. This hybridization series was an attempt to combine good yield, earliness, erect architecture, desirable seed characteristics, and disease resistance.

ND-307 is a medium-early maturing, high yielding pinto bean, with very good seed size, shape, and appearance. The seed is very uniform in size, and of similar appearance. The seed of ND-307 has a light background, with light brown mottle. One particular feature of this line is the absence of the seed yellow hilar ring, which is characteristic of a pinto bean. Instead, the hilar ring is orange and its color intensity is slightly variable among seeds. ND-307 has white flowers, dark green leaf color, is semi-erect (Type IIb, short vine), with good lodging resistance. ND-307 exhibits good synchronous plant drydown prior to harvest (both plant and pods mature concurrently). Days to maturity are similar to Maverick. ND-307 has intermediate resistance to most rust races present in North Dakota, but is susceptible to the new rust race 20-3. ND-307 is resistant to bean common mosaic virus, but it is susceptible to the necrotic strain (NL-3).

Development of this variety was made possible through funds provided by the Northharvest Bean Growers Association and the North Dakota Dry Edible Bean Seed Growers Association.

ND-307 Pinto Bean

General Characteristics:

- High yield potential
- Great protection against BCMV and most common bean rust races
- Very good lodging resistance
- Good seed size and shape
- Synchronous dry down and upright growth habit

Agronomic performance of ND-307 pinto bean and commercial varieties summarized from several tests in North Dakota.

	ND-307	Buster	Maverick	GTS-900
Maturity (days)	103	102	102	104
Seed Size (g/100 seeds)	38.1	38.2	36.9	37.0
Growth Habit ¹	IIb	IIIa	IIIa	IIb
Height (cm)	55	51	53	54
Lodging Score ²	2	7	8	4

¹I = determinate bush; II = upright; short vine; III = prostrate vine; IV = indeterminate climber.

²Scale of 0 to 9 with 0 being the best.

Disease reaction of ND-307 pinto bean and commercial varieties summarized from several tests in North Dakota.

	ND-307	Buster	Maverick	GTS-900
Rust ¹	R ²	R	R	R
BCMV ¹	R	R	S	R
Anthraco nose ¹ (Race 7)	R	R	R	R
Anthraco nose ¹ (Race 73)	S	S	S	S

¹R=resistant; MR=moderately resistant; MS=moderately susceptible; S=susceptible

²Screening performed using a mixture of race present in N.D. It is susceptible to the new rust race 20-3.

Yield performance (cwt/acre) of ND-307 pinto bean compared to commercial varieties.

ND-307	Buster	Maverick	GTS-900	Loc. Years
22.1	22.4	—	—	41
22.9	23.2	20.7	—	32
23.0	24.2	—	20.8	26
24.0	25.1	22.4	21.7	21



For additional information about ND-307 and other dry bean varieties, refer to the most recent North Dakota Dry Bean Performance Testing circular A-654, contact the dry bean breeder or Extension agronomist at 701-231-7971 or visit www.ag.ndsu.edu/crops/