

NDSU Releases ND Henson Soybean Variety

It is intended to replace the NDSU-developed cultivar Cavalier.

ND Henson, a conventional soybean variety, has been developed and released by the North Dakota Agricultural Experiment Station, according to Rich Horsley, North Dakota State University Department of Plant Sciences chair.

The soybean line is intended to replace the NDSU-developed cultivar Cavalier.

In yield trials conducted by Ted Helms, NDSU soybean breeder, ND Henson was two days later in maturity than Cavalier and yielded 6 bushels per acre more across North Dakota locations. ND Henson is resistant to races 3 and 4 of phytophthora root rot, is tolerant to iron-deficiency chlorosis and is lodging resistant.

ND Henson performed very well in the multistate uniform regional tests conducted in 2013 and 2014. Averaged across all multistate locations, it was two days later in maturity and yielded 8.1 bushels per acre more than Cavalier. In North Dakota, the tests were conducted in Langdon, Park River and Minot. Other tests conducted were in Shelly, Moorhead and Crookston, Minn., and locations in Canada.

The new soybean variety has a purple flower, tawny pubescence and a black hila.

“With the growing problem of glyphosate-resistant weeds, there is a potential for a conventional soybeans, such as ND Henson, to be a good fit with marginal land situations and save on seed costs,” says Helms. “Also, ND Henson had a similar maturity date and produced a higher yeild than the Roundup Ready variety Asgrow AG 00932.”

ND Henson was named in honor of the late Bob Henson who was an associate agronomist at the NDSU Carrington Research Extension Center.

ND Henson (ND09-5604) Conventional Soybean
Langdon Research Extension Center
Park River - Off-station location

Variety	Maturity Date ¹				Mean ²
	LA 2013	PR 2013	LA 2014	PR 2014	
September					
ND Henson	24	16	f ³	10	17
Traill	19	14	9	6	13
Cavalier	18	14	5	4	12
Ashtabula	25	18	f	16	20
AG00932	19	15	10	7	14

¹Date of physiological maturity at R7 stage.

²LA2013, PR2013, PR2014

³Frost of 28⁰F on September 12 prior to R7 stage. All varieties were harvestable and had no distinctly green seeds in sample.

Variety	Plant Height (in)				Mean
	LA 2013	PR 2013	LA 2014	PR 2014	
ND Henson	35	30	23	28	29
Traill	37	31	23	30	30
Cavalier	38	31	21	28	29
Ashtabula	39	32	24	31	31
AG00932	38	31	24	30	31

Variety	Protein %				Mean
	LA 2013	PR 2013	LA 2014	PR 2014	
ND Henson	35.7	34.3	32.7	31.5	33.6
Traill	35.8	36.0	34.2	33.9	35.0
Cavalier	35.6	35.1	33.8	33.5	34.5
Ashtabula	34.4	33.2	30.6	31.4	32.4
AG00932	35.0	33.8	33.5	32.2	33.6

Variety	Oil %				Mean
	LA 2013	PR 2013	LA 2014	PR 2014	
ND Henson	15.2	17.0	16.7	17.7	16.7
Traill	14.9	16.2	15.3	15.9	15.6
Cavalier	14.9	15.9	15.8	16.3	15.7
Ashtabula	15.6	17.2	16.6	17.7	16.8
AG00932	14.6	16.7	15.0	16.2	15.6

Variety	Yield (bu/a)				Mean
	LA 2013	PR 2013	LA 2014	PR 2014	
ND Henson	52.4	55.0	43.2	63.2	53.5
Traill	44.4	50.2	34.3	58.9	47.0
Cavalier	47.9	52.2	35.6	56.5	48.1
Ashtabula	51.7	52.4	42.1	66.1	53.1
AG00932	54.3	53.7	39.5	65.9	53.4