

THE MINNESOTA AGRICULTURAL EXPERIMENT STATION, ST. PAUL, MINNESOTA

THE SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION, BROOKINGS,
SOUTH DAKOTA

NOTICE OF RELEASE OF MN 0301 SOYBEAN = 0.3 RM

The Minnesota Agricultural Experiment Station and the cooperator listed above announce the release of a high yielding soybean variety named MN 0301.

MN 0301 originated as an F₅ plant selection from the cross Maple Donovan x M82-303 made at the Minnesota Agricultural Experiment Station. M82-303 is a selection from the cross M70-330 x M68-176. M70-330 has the pedigree M62-93 x M64-3. M62-93 is a selection from the cross Merit x M406. M406 has the pedigree Harosoy x Norchief. M64-3 is a selection from the cross Traverse x PI 196163 (Tokatinagaha). M68-176 has the pedigree Merit x Beeson. The generations were advanced to the F₅ by a modified single seed descent procedure in Minnesota and Chile. From 1990 to 1996 MN 0301 was tested in North Dakota and Minnesota for agronomic performance. ND(M)89-111 was evaluated in the Regional Group 0 Soybean Test from 1993-1996. Data from those tests is shown below:

Variety	Seed Yield	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Oil	Iron Chlorosis
	bu/a		score+	in.	score+	g/100	%‡	%‡	score+
MN 0301	45.0	9/14	1.7	31	1.8	16.0	41.0	20.5	3.5
Agassiz	40.9	9/11	1.4	29	1.8	14.8	42.5	20.1	3.1
Lambert	49.1	9/19	1.5	31	1.8	16.5	43.0	20.1	3.3

+ score: 1 (very good) to 5 (very poor).

‡ dry weight basis.

MN 0301 is classified as an early Group 0 variety, relative maturity 0.3 3 days later than Agassiz and 5 days earlier than Lambert. It has outyield Agassiz by about 12% and is about 9% lower in yield than Lambert. Other characteristics of MN 0301 are similar to Agassiz and Lambert except for protein content, which is lower. Seeds of MN 0301 are larger than those of Agassiz.

MN 0301 has purple flowers, gray pubescence, brown pods at maturity and seeds with dull luster yellow seed coats with yellow hila. It carries the Rps1 gene for phytophthora root rot (caused by Phytophthora sojae Kauf. and Gerd.).

Foundation seed of MN 0301 will be produced by the Foundation seed organizations in releasing states with seed distribution to seed producers in 1997. Those participating in the release and distribution of this variety will do so according to the policies and guidelines established by the Experiment Station Committee on Organization and Policy (ESCOP) and the Association of Official Seed Certifying Agencies (AOSCA). Only foundation and certified classes will be produced. PVP will be applied for. The Minnesota Agricultural Experiment Station will maintain breeder seed. Each agency will be responsible for its own publicity after February 14, 1997.

Director, Minnesota Agricultural Experiment Station

Date

Director, South Dakota Agricultural Experiment Station

Date

To: One A
- Paul E.
- Craig G.
Should we be
testing these for
release in WI?
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