

THE MINNESOTA AGRICULTURAL EXPERIMENT STATION, ST. PAUL, MINNESOTA

THE SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION, BROOKINGS,  
SOUTH DAKOTA

THE WISCONSIN AGRICULTURAL EXPERIMENT STATION, MADISON, WISCONSIN

NOTICE OF RELEASE OF PARKER SOYBEAN

The Minnesota Agricultural Experiment Station and the cooperators listed above announce the release of a high yielding soybean variety named PARKER.

PARKER originated as an F<sub>5</sub> plant selection from the cross A79-136012 x Dawson made at the Minnesota Agricultural Experiment Station. M79-136012 has the pedigree Pride B216 x Land O'Lakes 4102. Pride B216 is a selection from Corsoy x Wayne. Land O'Lakes 4102 has the pedigree (Mack x [Wayne x (Clark x Adams)]) x Cutler. The generations were advanced to the F<sub>5</sub> by a modified single seed descent procedure in Minnesota and Chile. From 1985-1991 PARKER was tested in Minnesota as M84-916 for agronomic performance. M84-916 was entered in the Regional Preliminary Group I Test in 1988. Parker was evaluated in the Uniform Soybean Test Group I from 1989 to 1991. 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	date	score+	in.	score+	g/100	%	%‡	score+
PARKER	52.1	9/18	2.2	38	1.9	18.2	39.7	21.3	3.0
Sturdy	51.1	9/23	1.8	36	1.9	18.7	40.2	20.7	2.4

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

‡dry weight basis.

PARKER is classified as Group I maturity about 5 days earlier than Sturdy. It has out yielded Sturdy about 2%. PARKER is taller than Sturdy. Seeds of PARKER are slightly smaller than seeds of Sturdy.

PARKER has white flowers, gray pubescence, brown pods at maturity and seeds with dull luster yellow seed coats with buff hila. It carries the Rps 1 gene for resistance to phytophthora root rot [caused by Phytophthora megasperma (Drechs.) F. sp. glycinea Kuan and Erwin].

Foundation seed of PARKER will be produced by the foundation seed organizations in releasing states with seed distribution to seed producers for planting in 1992. The Minnesota Agricultural Experiment Station will maintain breeder seed. Each agency will be responsible for its own publicity after February 14, 1992.

C. Eugene Allen  
Director, Minnesota Agricultural Experiment Station

2-18-92  
Date

R. A. Moore  
Director, South Dakota Agricultural Experiment Station

3-25-92  
Date

Robert H. Peterson  
Director, Wisconsin Agricultural Experiment Station

4-9-92  
Date

PARKER SOYBEANS

PARKER was developed by the Minnesota Agricultural Experiment Station. It is a  $F_6$  selection from the cross A79-136012 x Dawson. Prior to release, PARKER was tested as selection M84-916.

PARKER is of Group I maturity, relative maturity 100. It has white flowers, gray pubescence, brown pods at maturity and intermediate seed coats with buff hila. PARKER carries the Phytophthora resistance gene Rps1, which confers resistance to races 1, 2, 10, 11, 13-18, and 24.

Plant Variety Protection under the title V, certification-only option, has been applied for.

Foundation seed of PARKER was distributed to Certified Seed Growers in 1991. Wisconsin Certified Seed should be available for farm planting in 1992.

<u>Entry</u>	<u>Maturity</u> (Date)	<u>Yield</u> (bu/a)	<u>Lodging</u> <sup>1</sup> (Score)	<u>Height</u> (in)	<u>Protein</u> (%)	<u>Oil</u> (%)
<u>1991 4 Test Mean - Southern Wisconsin Variety Test</u>						
Parker	08-Sep	51	3.0	36	34.4	19.0
Hardin	09-Sep	53	3.1	36	35.2	18.2
Sturdy	14-Sep	55	2.0	33	34.6	18.1
<u>1991 4 Test Mean - Central Wisconsin Variety Test</u>						
Parker	08-Sep	66	3.7	44	35.6	18.1
Hardin	13-Sep	64	3.5	44	35.9	17.8
Sturdy	18-Sep	67	3.2	43	36.0	17.6
<u>1991 4 Test Mean - North-Central Wisconsin Variety Test</u>						
Parker	18-Sep	59	3.1	42	35.7	17.9
Hardin	12-Sep	64	3.1	41	36.1	17.7
Kato	16-Sep	61	2.2	40	37.5	17.2
<u>1989-91 3 Year Mean - Uniform Test I - Arlington</u>						
Parker	18-Sep	49	3.0	38	39.3	20.8
Hardin	23-Sep	46	3.3	37	40.2	20.3
Sturdy	24-Sep	48	2.4	35	40.3	19.8
<u>1990 14 Test Mean - Uniform Test I</u>						
Parker	21-Sep	53	2.3	37	40.0	21.2
Hardin	22-Sep	48	2.2	36	40.8	20.9
Sturdy	27-Sep	54	1.9	36	40.2	21.0

<sup>1</sup>Score 1 (all plants erect); to 5 (all plants flat).

Prepared by: E.T. Gritton and E.S. Oplinger. Dept. of Agronomy, University of Wisconsin-Madison