THIE UNITED STATES OF AVIERIOA

TO ALL TO WHOM THESE; PRESENTS: SHALL COME;

Northrup King Company

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF ACCURTAGEN. YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THE THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS F CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S4055'

In Testimony Wathercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 21st day of December in the year of our Lord one thousand nine hundred and seventy-eight

Altest:

Summer L Que

Commissioner

Plant Variety Protection Office

Agricultural Marketing Service

No.

Secretary of Agriculture

land

	UNITED STATES DEPARTMENT AGRICULTURAL AGRICULTURA	ETING SERVICE			FORM APPROVED OMB NO. 40-R3822
	LIVESTOCK, POULTRY, GRAPLICATION FOR PLANT VARIESTRUCTIONS: See Reverse.				ant variety protection may ompleted application form U.S.C. 553).
1a.		1b. VARIETY NAM	E	FOR OFFIC	IAL USE ONLY
:	VARIETY	s4055		78001	L01
2.	KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE	TIME A.M
	Soybeans	Glycine m	ax	8-03-18	DATE
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETE	NOITANIME	s 500.00	8-03-18
	Leguminosae	October 1	976	\$ 250.00	10-16-78
6.	NAME OF APPLICANT(S)	Code)	t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER
	Northrup King Co.	P.O. Box Minneapol	959 is, MN 55440		612-781-8011
9.	IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh		10. IF INCORPORAT DATE OF INCOR	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION
	Corporation		Delaware		1896
12,	NAME AND MAILING ADDRESS OF APPLALL PAPERS: Allenby L. White	LICANT REPRESENT	ATIVE(S), IF ANY, TO	SERVE IN THIS APPLI	CATION AND RECEIVE
	Northrup King Co P.O. Box 959	S åre Lise	na marangga Amin da m		
13,	Minneapolis, Mir				
10,	X 13A. Exhibit A, Origin and Bree		Variety (See Section .	52 of the Plant Variet	y Protection Act.)
	X 13B. Exhibit B, Novelty Statem	ent.			
	X 13C. Exhibit C, Objective Descr	iption of the Variety	(Request form from	Plant Variety Protect	tion Office.)
	X 13D. Exhibit D, Additional Desc	•			·
14a,	DOES THE APPLICANT(S) SPECIFY THA- SEED? (See Section 83(a). (If "Yes," answer			RIETY NAME ONLY AS	S A CLASS OF CERTIFIED
14b.	DOES THE APPLICANT(S) SPECIFY THAT LIMITED AS TO NUMBER OF GENERATI			B, HOW MANY GENER	ATIONS OF PRODUC-
	X YES NO		X FOUNDATION		X CERTIFIED
15a.	DID THE APPLICANT(S) FILE FOR PROT name of countries and dates.)	ECTION OF THIS VA	RIETY IN OTHER COU	NTRIES? YES	NO (If "Yes," give
			nika di kacamatan		
15b,	HAVE RIGHTS BEEN GRANTED THIS VA and dates.)	RIETY IN OTHER CO	OUNTRIES? YES	X NO (If "Yes,"	give name of countries
					* *
		300	Annual States		•
16.	DOES THE APPLICANT(S) AGREE TO TH	E PUBLICATION OF I	HIS/HER (THEIR) NAM	E(S) AND ADDRESS IN	THE OFFICIAL
17.	The applicant(s) declare(s) that a viable replenished upon request in accordance	sample of basic see with such regulatio	d of this variety will b ns as may be applicab	oe furnished with the ble.	application and will be
1.	The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable a 42 of the Plant Variety Act.	e owner(s) of this se as required in Section	xually reproduced non 41, and is entitled t	vel plant variety, and o protection under th	believe(s) that the e provisions of Section
	Applicant(s) is (are) informed that false	e representation here	in can jeopardize pro	tection and result in 1	penalties.
<i>j.</i>	28,1978 (DATE)		<u>Cèlle</u>	SIGNATURE OF APPL	lecto
11.				SIGNATURE OF AFFL	1

(SIGNATURE OF APPLICANT)

(DATE)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



EXHIBIT A ORIGIN AND BREEDING HISTORY OF S4055 SOYBEANS

1971	$100~\mathrm{F_4}$ progeny rows from the cross "Beeson x Cutler" were grown. One of these, numbered 3247, was selected on the basis of agronomic appearance to be tested in a preliminary yield trial.
1971-72	A sample of 3247 was grown, along with other experimental lines, in an F_5 increase block. Ten plants were harvested and threshed individually for planting in an F_6 observation row.
1972	3247 was tested at Washington, Iowa, and Waverly, Illinois. The ten progeny rows from the plants selected the previous winter were grown. One of these, designated 103247, was selected on the basis of agronomic appearance, uniformity, and performance of the parent strain, 3247, for further testing.
1973	103247 was tested at Washington, Iowa, Carrollton, Missouri, and Waverly, Illinois.
1974	103247 was tested at 8 midwestern locations.
1975	103247 was tested at 8 midwestern locations. 100 representative single plants were harvested and threshed individually.
1976	103247 was tested at 8 midwestern locations. The 100 plants selected in 1975 were grown as 100 progeny rows. These were checked carefully for uniformity and conformity to type. Any rows containing off-types were eliminated, the remaining rows were bulk harvested to produce pedigree seed.
1977	103247 was tested at 8 midwestern locations. Breeder seed was grown from the pedigree seed produced in 1976.
1978	103247 was named S4055 and released to foundation seed growers.
	S4055 is stable and uniform for all normal descriptive characteristics. A very low frequency of variants would be expected through mutation, outcrossing, or mechanical mixture. These will be prevented from increasing in frequency by use of the pedigree purification system referred to above.

EXHIBIT B NOVELTY STATEMENT FOR S4055 SOYBEAN

S4055 is most similar to Bonus in maturity, seed coloration, plant habit, and appearance. It can be differentiated from Bonus on the basis of reaction to Race 1 of Phytophthora root rot. S4055 is susceptible, Bonus is resistant.

Data contrasting \$4055\$ soybeans from other Group III and IV varieties.

	Color of							
	Pubescence	Flower	Hilum	Race 1 Phytoph.				
s4055	G- Rfs	P	Imp Bl	S				
Wayne	Br	W	B1	Š				
Calland .	\mathtt{Br}	P	B1	$\overline{\mathbf{R}}$				
Woodworth	\mathtt{Br}	W.	B1	S				
Williams	\mathtt{Br}	W	B1	S				
Bonus	G	P	Imp Bl	R				
Cutler 71	\mathtt{Br}	P	B1	R				
Kent	Br	P	BL .	S				
SRF 307 B	\mathtt{Br}	W	Br	S				
SRF 307 P	\mathtt{Br}	W	Br	R				
SRF 350	Br	W	Bl:	S				
SRF 400	\mathtt{Br}	P	BL	R				
SRF 425	\mathtt{Br}	P	B'1	S				
SRF 450	\mathtt{Br}	P	B1	,				
A3585	\mathtt{Br}	P	Br	S				
Agripro 27	Br	P	В1	S				
Mitchell	Br	P	Br	S				

Key G=Grey

Br=Brown

P=Purple

W≕White

B**l**=Black

Imp Bl =Imperfect Black

S=Susceptible

R=Resistant

FORM GR-470-2 (6-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

EXHIBIT C (Soybean)

HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.	TCINE MAX)
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Northrup King Co.	PVPO NUMBER 00101
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)	
P.O. Box 959	VARIETY NAME OR TEMPORARY DESIGNATION
Minneapolis, MN 55440	s4055
Place the appropriate number that describes the varietal cha	racter of this variety in the hoves below
1 SEED SHAPE.	
1 1 = SPHERICAL 2 = SPHERICAL FLATTENED 3 = ELONGA	
2. SEED COAT COLOR:	I SHADE:
1 = YELLOW 2 = GREEN 3 = BROWN 5 = OTHER (Specify)	4 = BLACK 2 1 = LIGHT 2 = MEDIUM 3 = DARK
3. SEED COAT LUSTER:	4. SEED SIZE
1 = DULL 2 = SHINY	1 8 GRAMS PER 100 SEEDS
5. HILUM COLOR:	SHADE:
5. HILUM COLOR: 5	5 - IMPERFECT
6 = BLACK 7 = OTHER (Specify)	BLACK 2 1 = LIGHT 2 = MEDIUM 3 = DARK
	The state of the s
6. COTYLEDON COLOR:	7. LEAFLET SIZE (See Reverse):
1 = YELLOW 2 = GREEN	3 1=SMALL 2=MEDIUM 3=LARGE
8. LEAFLET SHAPE:	
1 l=ovate 2=oblong 3=Lanceolate 4:	
9, LEAF COLOR (See reverse):	10. FLOWER COLOR:
2 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK	GREEN 2 = PURPLE 3 = OTHER (Specify)
11. POD COLOR:	12: POD SET:
1 l = TAN 2 = BROWN 3 = BLACK	2 1 = SCATTERED 2 = CONCENTRATED
13. PLANT PUBESCENCE COLOR:	SHADE:
1 1 = GRAY 2 = BROWN 3 = OTHER (Specify)	1 1 = LIGHT 2 = MEDIUM 3 = DARK
14. PLANT TYPES (See Reverse):	15. PLANT HABIT:
3 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE	2 = INDETERMINATE 3 = OTHER (Specify)
16. HYPOCOTYL COLOR:	I See a second of the second o
2 1 = GREEN 2 = PURPLE	1=A 2=B
18. NUMBER OF DAYS TO FLOWERING 19. MATURITY GROUP:	
days are 9 or less.)	2.≘ o 3. = i 4 ± ii 5 = iii 7. = ∨
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGH	T (Growth Chamber) AT 25° C. (Place a zero in first box
(e.g. 0 2) when size is 9 mm. or less:) MM. LENGTH OF SEEDLING. OF COTYLEDON	MM. WIDTH OF COTYLEDON
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	 Section of the section of the section
0 BACTERIAL 0 SOYBEAN 0 DOWNY 1 CYST	PURPLE 0 POD AND 0 ROOT STAIN KNOT
O FROGEYE O STEM 1 PHYTO- O PHTHORA	BROWN 1 BROWN SPOT SPOT
0 BUD RHIZOCTONIA ROT	OTHER (Specify)

CHARACTER	NAME OF VARIETY		CHARACTER		NAME OF VARIETY
Plant shape	Williams		Petiole angle		Williams
Leaf shape	Williams		Seed size		Beeson
Leaf color	Bonus	•	Seed shape		Beeson
Leaf surface	Bonus		Seedling pigmentation		Bonus
GIVE DATA FOR SU	BMITTED AND SIMILAR STANDARD Y	ADIETY.	Securing promentation	-	Donas

VARIETY	NO. OF DAYS		PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO.	
				Width	Length	Protein	Oil	OF PODS PER PLANT	IODINE NO.
Submitted	183	2.1	110 cm			41.6	21.7 %	18	
Name of similar variety Bonus	182	2.2	125 em			44.6	20.4	18	<u> </u>

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	''Ada''
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"'Adelphia''

APPLICATION FOR REVIEW OF SOYBEAN VARIETIES FOR CERTIFICATION National Certified Soybean Variety Review Board

APPLICANT'S NAME Northrup King &	Go. Date April 10, 1978
ADDRESS P. O. Box 49, Washington,	Iowa 52353 Attn: John Thorne
SPONSORING INSTITUTION (If other the	nan applicant)
BREEDER'S NAME (If other than appl	icant)
APPLICANT'S NAME Northrup King & Co. Date April 10, 1978 ADDRESS P. O. Box 49, Washington, Iowa 52353 Attn: John Thorne SPONSORING INSTITUTION (If other than applicant) PREEDER'S NAME (If other than applicant) Wariety Name S4055 Experimental Designation 103247 The breeder, the sponsoring institution, or the organization must describe and DOCUMENT In this application those characteristics of the variety which give it distinctiveness by supplying the information requested below. Action will be deferred unless application is sufficiently documented. I. Indicate parentage (known variety or strain designation requested), breeding procedure (bulk, pedigree, etc.) and time sequence (generation) used in developing the variety. S4055 originated from an F. plant chosen from an F. addrived line from the cross Beeson x Cutler. II. VARIETY DESCRIPTION a. Maturity: days earlier, or 3 days later than * Williams b. Flower Color: Purple X, or White c. Pubescence Color: Brown or Gray X d. Pod Color: Black , Brown or Tan X e. Seedcoat Color: Yellow X, Black , Brown , Green or other (describe) f. Seed Coat luster: Dull ** or Shiny g. Pilum Color: Gray , Yellor , Black , Brown	
DOCUMENT in this application those distinctiveness by supplying the in	characteristics of the variety which give it nformation requested below. Action will be
procedure (bulk, pedigree, edeveloping the variety. S40	tc.) and time sequence (generation) used in 155 originated from an F ₅ plant chosen from an
<u> </u>	
b. Flower Color: Purple	<pre> / or White / or Gray X Brown or Tan X X Black Brown or other /** or Shiny Yellow Black Brown uff or other (describe) Elongate or other (describe) </pre>
j. Plant height, inches: 4 41 inches. k. Lodging score: 1 , 2 2.2 1 = erect to 5 = lodged 1. Leaf size or shape: Large Oval, Lanceolate Plant Type: Slander	2 2.2, 3 , 4 , 5 compared to * Williams 2 3.5 compared to * Williams 2 3.6, 3 , 4 , or 5 . (Based on a score of flat). Example X Medium, Small, OvateX , or other (describe) Bushy or Intermediate X or Indeterminate X

^{*} Compared with another widely grown variety of somewhat similar maturity grown in the area of usage and registered with the Crop Science Society of America.

^{**} Classified as dull, but somewhat less so than some other varieties classed as dull.

,	o. Other plant or seed characteristics that might help identify this variety (describe)								
•									
III.	p. Protein content, if known: 41.6% compared to williams with 42.2% q. Oil content: 21.7% compared to williams with 21.5 DISEASE REACTION (List diseases for which rated and mark the reaction) Diseases Moderately								
	a. Phytophthora Rot Resistant Res. Susc. Susceptible X								
	b. Rhizoctonia Rot X								
	c. Purple Stain X								
	d. Brown Spot								
	e								
	f								
	g								
	h								
IV.	INSECT REACTION (List insects for which rated and mark the reaction) Insects Resistant Resistant Resistant								
	a								
	b								
v.	c. (a) State any advantage (s) over varieties of similar maturity.								
	S4055 has high yield and excellent standability.								
	(b) State any distinguishing characteristics which demonstrate eligibility for certification. The combination of grey pubescence, purple flower,								
	imperfect black hilum, and susceptibility to Phytophthora Race 1 is distinguis (Note: at least one variety used for comparison shall be similar maturity and registered with the CSSA).								
VI.	Performance Data (This is not mandatory, but would be of considerable value								
	to the committee in deciding whether a variety is new and different or worthy of certification). Yield and chemical data are required when either of these two traits is claimed as a distinctive characteristic. Note: Attach data when appropriate.								
	a. Performance data are X , are not included with this application. b. The data submitted are, are not X confidential to the committee.								

VII. Tabular data concerning height, maturity, lodging, and seed size taken at or after maturity, is required. Yield and chemical composition is required only when either of these two traits is claimed as a distinctive characteristic. Data shall include appropriate check varieties registered with the CSSA. Data may be from tests conducted by private firms or Agricultural Experiment Stations, or both. Location(s) data collected

			PERFORMA	NCE DATA				
Variety	No. of Tests*	Height	Data Mature	Lodging Index	Seed Size Wt./100	011 con-	% Pro	Yield
		(2)	(8)	(28)	seeds (1)	tent(1)tein(1) (29
S4055		43.5	10-3	2.2	18.3	21.7	41.6	48.4
Williams		41.0	9-30	2.2	16.9	21.5	42.2	48.7

VIII. List the geographic area or areas of adaptation of this variety Southern

Nebraska and Iowa; Northern Kansas and Missouri; Central and South-central

Illinois, Indiana, and Ohio; Northern Kentucky.

IX. State procedure for maintaining Foundation Seed, seed classes to be used, a statement as to limitations of generations that may be Certified, and any requirements or limitations necessary to maintain varietal characteristics.

Breeder seed will be maintained by Northrup King using Pedigree purification.

Foundation, Registered, and Certified Classes will be used. X. If this variety is accepted by Official certifying agencies, when will certified seed be offered for sale? Foundation, registered, and certified seed

will be produced in 1978 for sale in 1979.

XI. The Variety Review Board assumes all information on the application to be the responsibility of the originator or owner. If inaccuracies are later identified it will be the responsibility of the originator or owner to notify the Variety Review Board and to make corrections. When experimental designations are approved by the Variety Review Board and are later changed to a permanent name or number the originator or owner will notify the Variety Review Board and give them the new name or number.

XII. Has application been made for Plant Variety Protection? Yes X No

At the time a variety is accepted for certification, a two pound sample seed lot of the generation, or generations, requested by the certifying agency shall be submitted to the agency by the sponsor. This lot(s) is to be retained as a control sample against which all future seed released for Certified Seed Production may be compared to establish continued trueness to variety.

* Given for each character.

Submit twelve copies of this application and a one pound sample of the seed to:

Lowell A. Burchett
Secretary-Treasurer
Kansas Crop Improvement Association
Call Hall 205
Kansas State University
Manhattan, Kansas 66506

If printed or mimeographed naterial is enclosed with this application, please send twelve copies of such matter.

Please submit a short and precise description of this variety in the space provided below, as you wish it published by AOSCA.

S4055 is a new, high yielding, early Maturity Group IV soybean variety. It is between Williams and Cutler 71 in maturity. Its average yield is about 3 bushels per acre higher than Cutler 71.

Seeds of S4055 are yellow with imperfect black hila. Plants have grey pubescence, purple flowers, and tan pods.

\$4055 is best adapted to Southern Nebraska and Iowa; Northern Kansas and Missouri; Central and South-central Illinois, Indiana, and Ohio; and Northern Kentucky.

ICIAL COMMITTEE ACTIO	<u>N</u> :	
Approved	Deferred	Disapproved
	Signe	ed
		Chairman, National Certified Soybean
		Variety Review Board
		Date

EXHIBIT D ADDITIONAL DESCRIPTION OF \$4055 SOYBEANS

S4055 is an early Maturity Group IV variety maturing between Williams and Cutler 71. It has very good lodging resistance. S4055 has fairly large leaves which are somewhat more slender than those of Cutler 71. Level of branching is similar to most varieties of similar maturity. Plant height is taller than Williams, but shorter than Bonus.

Seeds of S4055 are fairly large compared to Williams or Bonus. Seed coats are dull, but are somewhat more shiny than other varieties which are classified as dull. Hilum color is imperfect black. S4055 is lower in seed protein than Bonus, but higher in oil content. In 1977 trials, S4055 averaged 41.6 percent protein compared to 44.6 for Bonus, 42.2 for Williams, and 42.5 for Cutler 71. Oil percent was 21.7 for S4055, 20.4 for Bonus, 21.5 for Williams and 20.6 for Cutler 71.