## ALLER UNNIMBED SYNAMLES OF ANTERRICA

## TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Soybean Research Foundation, Inc.

Whereas, there has been presented to the

Securelarry of Agreedently

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 APPLI-CANT(S) FOR THE TERM OF <u>seventeen</u> 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 EX-SUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ITY 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 OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

7900108

2 1 2 1 2

'Gutwein 221'

In Lestimony Whercot, 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 24th day of April in

the year of our Lord one thousand nine hundred and eighty.



Attest

No.

Plant Variety Protection Office Grain Division Agricultural Marketing Service

	UNITED STATES DEPARTME AGRICULTURAL MARI LIVESTOCK, POULTRY, GRA	KETING SERVICE			FORM APPROVED OMB NO. 40-R3822		
	PLICATION FOR PLANT VARIE				lant variety protection may completed application form U.S.C. 553).		
1a	TEMPORARY DESIGNATION OF	16. VARIETY NAM	E	FOR OFFIC	AL USE ONLY		
		Gutwein 221		ру пимвер 7900108			
2.	KIND NAME	3. GENUS AND SPE		FILING DATE	10:30		
	Soybeans	Glycine may	(L.) Merr.	FEE RECEIVED	DATE P.M.		
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETER	MINATION	<u>\$ 500.00</u>	8-30-79		
	Leguminosae	October	, 1975	\$_250.00	3/17/80		
6.	NAME OF APPLICANT(S)	7. ADDRESS (Stree	t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA		
	Soybean Research	<sup>Code</sup> 115 N.	Perry St.		CODE AND NUMBER		
	Foundation, Inc.	Mason	City, IL 6	52664	217 482-3219		
9.	IF THE NAMED APPLICANT IS NOT A PO ORGANIZATION: (Corporation, partnersh Corporation	RSON, FORM OF ip, association, etc.)	10. IF INCORPORAT DATE OF INCOR <b>Illinoi</b>		April 28, 196		
12.	NAME AND MAILING ADDRESS OF APP ALL PAPERS:	LICANT REPRESENT	ATIVE(S), IF ANY, TO	SERVE IN THIS APPLI	CATION AND RECEIVE		
	Arnold L. Mat	son, Directo	or of Soybear	Breeding			
	Soybean Resea Mason City,Il						
13.	CHECK BOX BELOW FOR EACH ATTAC	IMENT SUBMITTED:					
	X 13A. Exhibit A, Origin and Bre	eding History of the	Variety (See Section 3	52 of the Plant Varie	ty Protection Act.)		
	🔀 13B. Exhibit B, Novelty Staten	ient.					
	X 13C. Exhibit C, Objective Descr	ription of the Variety	(Request form from	Plant Variety Protec	tion Office.)		
	13D. Exhibit D, Additional Des	-		· ·	55 7		
		• .	•		·····		
14a,	DOES THE APPLICANT(S) SPECIFY THA SEED? (See Section 83(a). (If "Yes," answ			RIETY NAME ONLY A	S A CLASS OF CERTIFIED		
14b.	DOES THE APPLICANT(S) SPECIFY THA LIMITED AS TO NUMBER OF GENERAT			B, HOW MANY GENE	RATIONS OF PRODUC-		
			1				
15a.	DID THE APPLICANT(S) FILE FOR PROT	ECTION OF THIS VAI			· ·		
	name of countries and dates.)		NET IN OTHER COU	NTRIES? YES	X CERTIFIED X NO (If "Yes," give		
			RIETT IN OTHER COO	NTRIES? YES	CERTIFIED		
			ALET IN OTHER COO	NTRIES? YES	CERTIFIED		
15b,	HAVE RIGHTS BEEN GRANTED THIS V	ARIETY IN OTHER CO			X CERTIFIED X NO (If "Yes," give		
15b,	HAVE RIGHTS BEEN GRANTED THIS V and dates.)	ARIETY IN OTHER CO			CERTIFIED		
15b,		ARIETY IN OTHER CO			X CERTIFIED X NO (If "Yes," give		
15b,		ARIETY IN OTHER CC			X CERTIFIED X NO (If "Yes," give		
15b, 16,			OUNTRIES?	X NO (If "Yes,	CERTIFIED NO (If "Yes," give "give name of countries		
	and dates.) DOES THE APPLICANT(S <u>) A</u> GREE TO TH	E PUBLICATION OF F	DUNTRIES? YES HIS/HER (THEIR) NAM	X NO (If "Yes, E(S) AND ADDRESS :	X CERTIFIED X NO (If "Yes," give "give name of countries		
16.	DOES THE APPLICANT(S) AGREE TO TH JOURNAL?	E PUBLICATION OF H NO e sample of basic see e with such regulatio he owner(s) of this se	DUNTRIES? YES HIS/HER (THEIR) NAM d of this variety will b ns as may be applicab exually reproduced no	X NO (If "Yes, E(S) AND ADDRESS : be furnished with the le. wel plant variety, and	X CERTIFIED NO (If "Yes," give "give name of countries N THE OFFICIAL application and will be d believe(s) that the		
16.	and dates.) DOES THE APPLICANT(S) AGREE TO TH JOURNAL? The applicant(s) declare(s) that a viable replenished upon request in accordance The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable	E PUBLICATION OF F NO e sample of basic see e with such regulatio he owner(s) of this se as required in Section	DUNTRIES? YES HIS/HER (THEIR) NAM d of this variety will b ns as may be applicab exually reproduced no n 41, and is entitled t	NO (If "Yes, E(S) AND ADDRESS I be furnished with the le. vel plant variety, and o protection under t	X CERTIFIED NO (If "Yes," give "give name of countries N THE OFFICIAL application and will be d believe(s) that the he provisions of Section		
16.	DOES THE APPLICANT(S) AGREE TO TH JOURNAL? The applicant(s) declare(s) that a viabl replenished upon request in accordanc The undersigned applicant(s) is (are) th variety is distinct, uniform, and stable 42 of the Plant Variety Act. Applicant(s) is (are) informed that fals	E PUBLICATION OF F NO e sample of basic see e with such regulatio he owner(s) of this se as required in Section	DUNTRIES? YES HIS/HER (THEIR) NAM d of this variety will b ns as may be applicab exually reproduced no n 41, and is entitled t	NO (If "Yes, E(S) AND ADDRESS I be furnished with the le. vel plant variety, and o protection under t	X CERTIFIED X NO (If "Yes," give "give name of countries "give name of countries N THE OFFICIAL application and will be d believe(s) that the he provisions of Section		
16.	and dates.) DOES THE APPLICANT(S) AGREE TO TH JOURNAL? The applicant(s) declare(s) that a viable replenished upon request in accordance The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable 42 of the Plant Variety Act.	E PUBLICATION OF F NO e sample of basic see e with such regulatio he owner(s) of this se as required in Section	DUNTRIES? YES HIS/HER (THEIR) NAM d of this variety will b ns as may be applicab excually reproduced no n 41, and is entitled t ein can jeopardize pro	NO (If "Yes, E(S) AND ADDRESS I be furnished with the le. vel plant variety, and o protection under t	X CERTIFIED NO (If "Yes," give "give name of countries "give name of countries N THE OFFICIAL application and will be d believe(s) that the he provisions of Section penalties.		
16.	DOES THE APPLICANT(S) AGREE TO TH JOURNAL? YES The applicant(s) declare(s) that a viabl replenished upon request in accordanc The undersigned applicant(s) is (are) th variety is distinct, uniform, and stable 42 of the Plant Variety Act. Applicant(s) is (are) informed that fals August 20, 1979	E PUBLICATION OF F NO e sample of basic see e with such regulatio he owner(s) of this se as required in Section	DUNTRIES? YES HIS/HER (THEIR) NAM d of this variety will b ns as may be applicab excually reproduced no n 41, and is entitled t ein can jeopardize pro	NO (If "Yes, E(S) AND ADDRESS + be furnished with the le. wel plant variety, and o protection under the tection and result in	X CERTIFIED X NO (If "Yes," give "give name of countries "give name of countries N THE OFFICIAL application and will be d believe(s) that the he provisions of Section penalties. Maddam		

1 (SIGNATURE OF APPLICANT)

#### 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

13b

13c

13d

14a

15a

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Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of We many SMA the Act and (2) the date a decision was made to increase the seed.

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- 13a 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 SECEINED 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.

### 7900108

Gutwein 221

Exhibit A -

The line 72-3176 originates from a single  $F_4$  plant from the cross Corsoy x Amsoy grown in 1971. This line appeared to be phenotypically uniform except that it was segregating for tan and brown pods. In 1976, 746 Fg progeny rows (seed from individual Fg plants) from 72-3176 were grown and all rows uniform except for pod color were harvested as individual lines. 376 lines homozygous for brown pod color were put into isolated yield trial in 1977 and the 110 highest yielding lines were bulked to produce breeders seed of Gutwein 221. The bulk is stable for all phenotypic characters and no variant are a part of the variety description. All breeding and selection work was carried out at the Soybean Research Foundation under the supervision of Dr. Arnold L. Matson. I have inspected this variety at all stages of development and I find no evidence of instability in the variety.

Exhibit B -

Gutwein 221 is very similar to Matsoy but may be distinguished from Matsoy since it is 2 days earlier in maturity.

SEE REVISED EXHIBIT B. NJS 11/9/79

EXHIBIT B - ADDENDUM RJS =/5/80

SOYBEAN RESEARCH FOUNDATION, INC.

POST OFFICE BOX 72 . MASON CITY . ILL . 62664 . AC 217/482-3219

January 31, 1980

Dr. Robert J. Snyder Examiner, Plant Variety Protection Office USDA - AMS National Agric ultural Library Bldg. Beltsville, Maryland 20705

Dear Dr. Snyder:

Subject: Soybean Application No. 7900108, 'Gutwein 221"

In my letter of December 20, 1979 I presented data to show that Gutwein 221 was earlier than Matsoy. This data came from five tests with three replications in each test. In three of these tests one of the three replications showed no difference in maturity. This is to be expected since in soybean breeding maturity date is taken to be that date at which 95% of the pods are brown (dry). In a program as large as ours, it is impossible to take maturity notes every day. The practice we follow is to take notes every five to seven days, it being pretty accurate to date 3-4 days in advance and to back-date 2-3 days. However, sometimes we may have two plots which although they are obviously different in maturity, we do not think they are dry enough to date but on the next trip through if we have had low humidity days, both plots may have dried down. In this case, they are both given the same maturity date. Of course different replications may differ depending upon soil type, drainage, location in field, lodging, stand, adjoining plots, etc. I would look with great suspicion on data that was uniform in all replications. These data far exceed the 99% level of confidence that the two lines do differ in maturity.

72-3176 and 72-3299 each were tested as single lines in our yield trials from 1973 to 1976. During this time there was no evidence of segregation for maturity within either line. It is virtually impossible to keep mixture out if seed is saved from yield trial so when it was decided to produce Breeders Seed of these two lines, single plant progeny rows were grown for each line so that any mixture which might have crept in could be removed as a full row. When this was done, it became obvious that both lines were segregating for brown and tan pod wall color. The fact that there was no noticeable segregation for maturity before separating the line by pod wall color and that there was no between plant row difference in maturity when individual plant rows were grown is ample evidence that there was no maturity difference between tan and brown pod lines of the same line.

I hope that this letter satisfactorily explains our data.

Sincerely yours, Emold L. Ma Arnold L. Matson

Director of Soybean Breeding

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ALM: bjs

### EXHIBIT B RJS 1/2/80



POST OFFICE BOX 72 . MASON CITY . ILL . 62664 . AC 217/482-3219

December 20, 1979

3

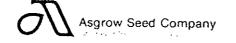
Dr. Robert J. Snyder, Examiner Plant Variety Protection Office USDA - ARS National Agr. Library Bldg. Beltsville, Maryland 20705

Dear Dr. Snyder:

Subject: Soybean Application No. 7900108, 'Gutwein 221'

Here are statistical data to support the maturity difference between Gutwein 221 and Matsoy. As mentioned in Exhibit A, Gutwein 221 is the brown pod segregate from the line 72-3176 and Matsoy is the brown pod segregate from the line 72-3299. These data were for Gutwein 221 and Matsoy before we separated out the tan and brown pods however, it is valid data because there is no maturity difference between the tan and brown pods within either line. Maturities are stated as days after August 31. These were all three replication tests.

Test	Year	Location	Gutwein 221	Matsoy	Dif
T42-2A	1974	San Jose, IL	34 33 34	38 34 36	4 1 2
т42-2в	1975	San Jose, IL	2.6 2.7 2.7	26 28 28	0 1 1
т4?-?в	1975	Mason City, IL	23 25 22	27 26 27	4 1 5
T42-2C	1976	San Jose, IL	23 24 23	2.4 2.4 2.4 2.4	1 0 1
т42-2С	1976	Mason City, IL	27 25 23	27 27 27 27	0 2 4
		x s s x	26.4 4.10 1.06	28.2 4.31 1.11	
	t test	for paired variates	D 1.8 sc Sā	= 1.66 = .43 = 4.19	
		t.05 = 2.14 for t.01 = 2.98	an Thea	reedom	



#### July 22, 1982

Mr. Kenneth H. Evans, Acting Commissioner Plant Variety Protection Office National Agricultural Library Building Beltsville, Maryland 20705

Dear Mr. Evans:

This letter is a follow up of our recent telephone conversation.

Asgrow would like to obtain photocopies of selected PVP applications for those varieties for which protection is granted. We are interested in receiving applications for the following crops:

na anazon Michigar 4/61

19-108

Soy- 'Gotweir 22

Garden Bean	Watermelon	Pepper
Dry Bean	Broccoli	Corn
Lettuce	Cabbage	Cucumber
Onion	Carrot	Eggplant
Parsley	Cauliflower	Muskmelon
Tomato	Реа	Squash
	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	Soybean

We are interested in applications approved in 1980, 1981 and those granted thus far in 1982.

Exclude the following copies:

- 1. Do not send photocopies of any Asgrow applications.
- 2. Do not send a photocopy of the actual certificate.
- 3. Do not send photocopies of applications issued in 1981
  - for soybeans and dry beans. Your office has sent these already.

Could you please advise me the cost of the above information and I will send you a check.

For the future, we would be interested in receiving copies of applications for the above species. Again, exclude Asgrow applications and the actual certificate itself. Could you arrange to have this done routinely, perhaps each month or each quarter, and we would reimburse your office.

NOTE: In regards to this request made by your

Jan.

Company, the following attached list of Issued Certificates 1 363 Very truly yours, VELE 2 T

company, the succountry attached test of issued certificates nave been photocopied for you. Upon receipt of your check for \$1,363 the photocopies will be mailed to not the photocopies will be mailed to you. Your patience is ine photocopies will be malled to you. your parlence is appreciated in the delay; caused by the reduced PVP stabl and the magnitude of this order. Thank you. John A. Batcha

/jc

(6-15 <sup>2</sup> 72) AGRICULTURA GR/ HYATTSVILL OBJECTIVE DE:	ARTMENT OF AGRICULTURE EXHIBIT C L MARKETING SERVICE (Soybean) AIN DIVISION E, MARYLAND 20782 SCRIPTION OF VARIETY N (CLYCINE MAY)
INSTRUCTIONS: See Reverse. SUTBEA	N (GLYCINE MAX)
Soybean Research Foundation	PVPO NUMBERO 108
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code	7900108
115 N. Perry St. Mason City, IL 62664	VARIETY NAME OR TEMPORARY DESIGNATION
	Gutwein 221
Place the appropriate number that describes the varieta	l character of this variety in the boxes below.
1. SEED SHAPE: 1 1 = SPHERICAL 2 = SPHERICAL 3 = ELC	ONGATE 4 = OTHER (Specify)
FLATTENED	
2. SEED COAT COLOR:	SHADE:
$1 = YELLOW \qquad 2 = GREEN \qquad 3 = BROW$ $5 = OTHER (Specify) $	
3. SEED COAT LUSTER: $A = \frac{R_F S}{II/I3/79}$	4. SEED SIZE
$\frac{2}{2} = \frac{1}{2} = \frac{1}$	1 6 GRAMS PER 100 SEEDS
5. HILUM COLOR:	SHADE:
2 I = BUFF 2 = YELLOW 3 = BROWN 4 = C	GRAY 5 = IMPERFECT
6 = BLACK 7 = OTHER (Specify)	
S. COTYLEDON COLOR:	7. LEAFLET SIZE (See Reverse):
1 = YELLOW 2 = GREEN	2 1 = SMALL 2 = MEDIUM 3 = LARGE
8. LEAFLET SHAPE: 1 I I = OVATE 2 = OBLONG 3 = LANCEOLATE	4 = ELLIPTICAL 5 = OTHER (Specify)
	DARK GREEN 10. FLOWER COLOR:
	3 = OTHER (Specify)
1. POD COLOR:           2.         1 = TAN         2 = BROWN         3 = BLACK	12: POD SET:
3. PLANT PUBESCENCE COLOR:	
1 = gray  2 = brown  3 = other(Specify)	1 = LIGHT 2 = MEDIUM 3 = DARK
4. PLANT TYPES (See Reverse):	
	15. PLANT HABIT: $\begin{bmatrix} 2 \\ 1 \end{bmatrix} = determinate$ 2 = indeterminate
3 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE	3 = OTHER (Specify)
6. HYPOCOTYL COLOR: R/5 11/13/79 2 1 = green 2 = purple	$\frac{1}{1 = A} = B$
8. NUMBER OF DAYS TO FLOWERING Place a zero in first box (e.g. 0 9) when ays are 9 or less.)	2 = 0 $3 = 1$ $4 = 11$ $5 = 10$
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT	7 = V     8 = VI     9 = VII     10 = VIII       LIGHT (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	MM. WIDTH Edon
21。DISEASE: (Enter 0 =Not Tested; 1 = Susceptible; 2 = Resistan	
O BACTERIAL O SOYBEAN O DOWNY PUSTULE CYST MILDEW	O PURPLE O POD AND O ROOT STAIN STEM BLIGHT O KNOT
O FROGEYE O STEM D PHYTO- CANKER PHTHORA	O BROWN STEM ROT O TARGET O BROWN SPOT SPOT 5
O BUD O WILDFIRE O RHIZOCTONIA	OTHER (Specity)

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FORM GR-470-2 (REVER	(SE)		n na statistica de la composición la composición de la c	e Trageduari Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin		s Bull (1997) Fill (1	790	0108	
22. INDICATE WHICH	ARIETY MOST	CLOSEL Y RE	SEMBLES T	IAT SU	BMIT TED.		na se se	an an the second se Second second	· · · · · · · · · · · · · · · · · · ·
CHARACTER	N	AME OF VA	RIETY	1.1	CHARA	CTER		NAME OF VAR	IETY
, Plant shape		Matsoy			Petiole	angle	M	atsoy	<u>.</u>
Leaf shape	1	Matsoy	i se		Seed	size		RF 200	
Leaf color		Matsoy	and a second s		Seed s	hape	M	atsoy	<u>.</u>
Leaf surface		Matsoy		at the second	Seedling pig	mentation	M	atsoy	
23. GIVE DATA FOR SU	JBMITTED AND	SIMILAR ST	NDARD VAR	IETY:					
VARIETY	NO. OF DAYS LODGING PL		PLANT	PLANT		CON	TENT	AVERAGE NO.	
VARIELI	TÓ MATURITY	SCORE	НЕІСНТ	Widtl	Length	Protein	Oil	OF PODS PER	IODINE NO.
Gutwein 221	131	2.1	44	86	117	39.0	20.8%		2.5- 1.1 1.1 1.1 1.1 1.1
Name of similar variety Matsoy	133	2.4	46	74	106	38.5	21.9		· · · · · · · · · · · · · · · · · · ·

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	''Áda''
Medium Green	"Wilkin"
Dark Green	"Swift"

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

		•
SIZE	an a sa	VARIETY
Small	the products	"Amsoy"
Medium	a 1997 - State State State State	"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"