No. 9600056

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, 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 TWENTY 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 EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9254'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of July in the year of our Lord one thousand nine hundred and ninety-nine.

PLANT VARIETY PROTECTION OFFICE · DEPARTMENT OF AGRICULTURE

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Pioneer Hi-Bred International, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

3. VARIETY NAME
9254

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
700 Capital Square
400 Locust St.
Des Moines, IA 50309

5. TELEPHONE *(include area code)*
515/270-3582

6. FAX *(include area code)*
515/253-2288

FOR OFFICIAL USE ONLY
PVPO NUMBER 9600056
FILING DATE NOV. 22, 1995
FEES RECEIVED
FILING AND EXAMINATION FEE: $ 2450.00
DATE NOV. 22, 1995
CERTIFICATION FEE: $ 300.00
DATE 7/2/1999

7. GENUS AND SPECIES NAME
Glycine Max

8. FAMILY NAME *(Botanical)*
Leguminosae

9. CROP KIND NAME *(Common name)*
Soybean

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.) (Common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Iowa

12. DATE OF INCORPORATION
1926

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
John Grace
7300 NW 62nd Ave.
PO Box 1004
Johnston, IA 50131-1004

Mike Roth (copy)
700 Capital Square
400 Locust St.
Des Moines, IA 50309

14. TELEPHONE *(include area code)*
515/270-3582

15. FAX *(include area code)*
515/253-2288

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of the Variety
d. ☒ Exhibit D. Additional Description of the Variety
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository)*
g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)?*
☐ YES *(If "yes," answer items 18 and 19 below)* ☒ NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES *(If "yes," give names of countries and dates)* ☐ NO
USA-1995, Canada-1995 (Feb. 24, 1995) Aff 17 June 1998

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*
D. John Grace III

NAME *(Please print or type)*
D. John Grace III

CAPACITY OR TITLE
Soybean Research Coordinator

DATE
11/16/95

SIGNATURE OF APPLICANT *(Owner(s))*

NAME *(Please print or type)*

CAPACITY OR TITLE

DATE

Exhibit A: Origin and Breeding History

Breeding History of 9254 Soybean

Variety 9254 evolved from a cross of Pioneer variety 9341 X Pioneer variety 9273. It is an F5 derived variety which was advanced to the F5 generation by modified bulk descent. The F6 progeny row of 9254 was grown in Iowa during the summer of 1990. Subsequently, 9254 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants.

The breeder seed purification block of 9254 was produced during the summer 1992 and 98 sublines were bulked for increase. One half acre of 9254 (breeder seed) was grown in Chile during the winter of 1992. 13 acres of parent seedstock (foundation seed equivalent) was grown during the summer of 1993. 518 acres of parent seedstock was grown during summer of 1994. 9254 was named in early 1995 on the basis of exceptional yield performance.

Exhibit B: Novelty Statement

Variety 9254 is most similar to variety 9273. Both varieties have purple flowers, tawny pubescence and yellow seeds with black hilum. However, 9254 has significantly more seeds/lb than variety 9273. (Table 1)

FORM APPROVED: OMB NO. 0581-005

EXHIBIT
(Soybean

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
~~LIVESTOCK, MEAT, GRAIN~~ & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.		9254

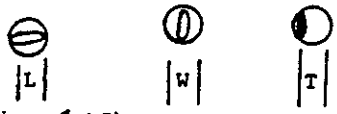
ADDRESS *(Street and No., or R.F.D. No., City, State, and Zip Code)*
700 Capital Square
400 Locust Street
Des Moines, IA 50309

FOR OFFICIAL USE ONLY
PVPO NUMBER
9600056

Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., [0][9]). Starred characters ★ are considered fundamental to an adequate soybean variety description. Other characters should be described when information is available.

1. SEED SHAPE:

[1]



1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)
2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)
4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)

★ 2. SEED COAT COLOR: (Mature Seed)

[1] 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other *(Specify)* _____

3. SEED COAT LUSTER: (Mature Hand Shelled Seed)

[1] 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17')

★ 4. SEED SIZE: (Mature Seed)

[1][4] Grams per 100 seeds

★ 5. HILUM COLOR: (Mature Seed)

[6] 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other *(Specify)* _____

★ 6. COTYLEDON COLOR: (Mature Seed)

[1] 1 = Yellow 2 = Green

★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:

[2] 1 = Low 2 = High

★ 8. SEED PROTEIN ELECTROPHORETIC BAND:

[ ] 1 = Type A ($SP1^a$) 2 = Type B ($SP1^b$)

★ 9. HYPOCOTYL COLOR:

[4] 1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')
4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')

★ 10. LEAFLET SHAPE:

[3] 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other *(Specify)* _____

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11. LEAFLET SIZE:

[2] 1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')

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12. LEAF COLOR:

[2] 1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')

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★ **13. FLOWER COLOR:**

[2] 1 = White 2 = Purple 3 = White with purple throat

★ **14. POD COLOR:**

[2] 1 = Tan 2 = Brown 3 = Black

★ **15. PLANT PUBESCENCE COLOR:**

[2] 1 = Gray 2 = Brown (Tawny)

16. PLANT TYPES:

[2] 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')

★ **17. PLANT HABIT:**

[3] 1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')

★ **18. MATURITY GROUP:**

[0 5] 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X

★ **19. DISEASE REACTION:** (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

BACTERIAL DISEASES:

★ [0] Bacterial Pustule *(Xanthomonas phaseoli* var. *sojensis)*

★ [1] Bacterial Blight *(Pseudomonas glycinea)*

★ [0] Wildfire *(Pseudomonas tabaci)*

FUNGAL DISEASES:

★ [1] Brown Spot *(Septoria glycines)*

Frogeye Leaf Spot *(Cercospora sojina)*

★ [0] Race 1 [0] Race 2 [0] Race 3 [0] Race 4 [0] Race 5 [ ] Other *(Specify)* _____

[0] Target Spot *(Corynespora cassiicola)*

[0] Downy Mildew *(Peronospora trifoliorum* var. *manshurica)*

[0] Powdery Mildew *(Microsphaera diffusa)*

★ [0] Brown Stem Rot *(Cephalosporium gregatum)*

[ ] Stem Canker *(Diaporthe phaseolorum* var. *caulivora)*

19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)

FUNGAL DISEASES: (Continued)

★ [1] Pod and Stem Blight *(Diaporthe phaseolorum var; sojae)*

[0] Purple Seed Stain *(Cercospora kikuchii)*

[1] Rhizoctonia Root Rot *(Rhizoctonia solani)*

Phytophthora Rot *(Phytophthora megasperma var. sojae)*

★ [1] Race 1 [1] Race 2 [1] Race 3 [1] Race 4 [1] Race 5 [0] Race 6 [1] Race 7

[1] Race 8 [1] Race 9 [ ] Other *(Specify)* _____

VIRAL DISEASES:

[1] Bud Blight (Tobacco Ringspot Virus)

[1] Yellow Mosaic (Bean Yellow Mosaic Virus)

★ [1] Cowpea Mosaic (Cowpea Chlorotic Virus)

[1] Pod Mottle (Bean Pod Mottle Virus)

★ [1] Seed Mottle (Soybean Mosaic Virus)

NEMATODE DISEASES:

Soybean Cyst Nematode *(Heterodera glycines)*

★ [ ] Race 1 [ ] Race 2 [1] Race 3 [ ] Race 4 [ ] Other *(Specify)* _____

[0] Lance Nematode *(Hoplolaimus Colombus)*

★ [1] Southern Root Knot Nematode *(Meloidogyne incognita)*

★ [1] Northern Root Knot Nematode *(Meloidogyne Hapla)*

[0] Peanut Root Knot Nematode *(Meloidogyne arenaria)*

[0] Reniform Nematode *(Rotylenchulus reniformis)*

[ ] OTHER DISEASE NOT ON FORM *(Specify)*: _____

20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

★ [2] Iron Chlorosis on Calcareous Soil

[ ] Other *(Specify)* _____

21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[0] Mexican Bean Beetle *(Epilachna varivestis)*

[0] Potato Leaf Hopper *(Empoasca fabae)*

[ ] Other *(Specify)* _____

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	9273	Seed Coat Luster	9273
Leaf Shape	9273	Seed Size	9231
Leaf Color	9273	Seed Shape	9273
Leaf Size	9273	Seedling Pigmentation	9273

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

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VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/ POD
				CM Width	CM Length	% Protein	% Oil		
9254 Submitted	127	1.5	84			42.5	21.4	14	3
9273 Name of Similar Variety	129	1.5	86			42.0	22.4	16	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A_2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-422.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol., 1: 1-19.

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Pioneer Hi-Bred Int'l Inc,
PVP Application 9254 Soybean

Table 1. T-test comparison of 9254 versus 9273 for seeds/lb, 1992-94 3-year analysis.

YEAR	LOC	REP	9254(X1)	9273 (X2)	X1-X2	$(X1-X2)^2$
			--- seeds per pound ---			
1992	004B	1	3239	3023	216	46656
	005B	1	3023	2835	188	35344
	346A	1	2870	2606	264	69696
	355A	1	3263	2817	446	198916
	358A	1	2907	2800	107	11449
	032B	1	2964	2637	327	106929
	039A	1	3410	3128	282	79524
1992		**SUM**	21676	19846	1830	548514
		MEAN	3096.6	2835.1	261.4	**=d**
		n =	7	groups of individuals		

1992 ANALYSIS

Ave 9254 =	3097	seeds per pound
Ave 9273 =	2835	seeds per pound
d = (Ave X1 - Ave X2)	261	
SE diff = SQRT of	1669.041	
SE diff =	40.854	
t = d/SE diff =	6.399	
df =	6	
Prob > **t** =	0.0007	significant at <1% level

YEAR	LOC	REP	9254(X1)	9273 (X2)	X1-X2	$(X1-X2)^2$
			--- seeds per pound ---			
1993	001E	1	3489	3239	250	62500
	007C	1	3489	3023	466	217156
	902D	1	3239	3023	216	46656
	032B	1	2907	2606	301	90601
	035C	1	2835	2637	198	39204
	039P	1	2907	2668	239	57121
1993		**SUM**	18866	17196	1670	513238
		MEAN	3144.3	2866.0	278.3	**=d**
		n =	6	groups of individuals		

1993 ANALYSIS

Ave 9254 =	3144	seeds per pound
Ave 9273 =	2866	seeds per pound
d = (Ave X1 - Ave X2)	278	
SE diff = SQRT of	1614.044	
SE diff =	40.175	
t = d/SE diff =	6.928	
df =	5	
Prob > **t** =	0.0010	significant at <1% level

Formula for Standard Error Calculations:

$$\textbf{SE diff} = \sqrt{\frac{\Sigma(X1-X2)^2-(\Sigma X1-X2)^2/n}{(n)(n-1)}}$$

1992 Standard Error Calculation:

$$\text{SE diff}_{92} = \sqrt{\frac{548514-((1830)^2/7)}{(7)(6)}}$$

1993 Standard Error Calculation:

$$\text{SE diff}_{93} = \sqrt{\frac{513238-((1670)^2/6)}{(6)(5)}}$$

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YEAR	LOC	REP	9254(X1)	9273 (X2)	X1-X2	$(X1-X2)^2$
			--- days to maturity ---			
1994	001A	1	3239	3023	216	46656
	901E	1	3479	2835	644	414736
	800B	1	3239	2835	404	163216
	111A	1	2814	2690	124	15376
	004A	1	3240	2930	310	96100
	011D	1	3240	3024	216	46656
	005A	1	3240	2835	405	164025
	347A	1	2835	2594	241	58081
	038E	1	3240	3240	0	0
	031M	1	2668	2668	0	0
	364A	1	3335	3217	118	13924
1994		**SUM**	34569	31891	2678	######
		MEAN	3142.6	2899.2	243.5	**= d**
		n =	11	groups of individuals		
TOTAL		**SUM**	75111	68933	6178	######
		MEAN	3129.63	2872.21	257.42	
		n =	24	groups of individuals		

1994 ANALYSIS

Ave 9254 =	3143	seeds per pound
Ave 9273 =	2899	seeds per pound
d = (Ave X1 - Ave X2)	243	
SE diff = SQRT of	3334.53388	
SE diff =	57.7454	
t = d/SE diff =	4.216	
df =	10	
Prob > **t** =	0.0018	significant at <1% level

1994 Standard Error Calculation:

$$SE\ diff_{94} = \sqrt{\frac{1018770 - ((2678)^2/11)}{(11)(10)}}$$

COMBINED 1992-94 ANALYSIS

Ave 9254 =	3130	seeds per pound
Ave 9273 =	2872	seeds per pound
d = (Ave X1 - Ave X2)	257	
SE diff = SQRT of	888.04680	
SE diff =	29.800	
t = d/SE diff =	8.638	
df =	23	
Prob > **t** =	0.0000	significant at <1% level

Combined Standard Error Calculation:

$$SE\ diff_{comb} = \sqrt{\frac{2080522 - ((6178)^2/24)}{(24)(23)}}$$

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P A I R E D C O M P A R I S O N R E P O R T

Soybean RESEARCH VARIETY PAIR 1 OF 1

VARIETY #1 - P9254
VARIETY #2 - P9273

AREA DEFINITION - DIVISION: PB USER NAME: GRACEJ AREA NAME: DEPTWW DESCRIPTION: 94-98 A,AB,B,V WW

* = 10% SIG + = 5% SIG # = 1% SIG

	VAR #	B/A ABS	MAT ABS ABS	PRM MAT	HGT ABS	LDG ABS	PRO ABS	OIL ABS	S/L B ABS	BSR ABS	PRT ABS	WH MD ABS	FEC L ABS	CNK R ABS	PLM ABS	STC ABS	OLC ABS	LLE ABS	LLN ABS
TOTAL SUM	1	64.1	128.3	24	33.4	7.9	41.7	21.9	3129.6	7.6	7.0	3.5	6.0	7.8	10.2	4.1	21.9	53.9	9.9
	2	64.3	130.3	26	34.6	7.5	41.4	22.6	2872.2	7.3	7.1	2.5	5.6	8.2	10.1	3.9	22.4	53.9	9.6
	LOCS	92	58	28	46	54	25	25	24	15	15	2	13	4	2	2	2	2	2
	REPS	147	101	28	67	89	33	33	28	25	56	8	25	12	3	3	3	3	3
	DIFF	0.2	2.0	1	1.2	0.4	0.2	0.7	257.4	0.4	0.1	1.0	0.4	0.4	0.1	0.2	0.5	0.1	0.3
	PROB	.757	.000#	.000#	.000#	.001#	.068*	.000#	.000#	.065*	.885	.500	.368	.312	.656	.090*	.699	.795	.754

VAR #	B/A ABS	MAT ABS ABS	PRM MAT	HGT ABS	LDG ABS	PRO ABS	OIL ABS	S/L B ABS	BSR ABS	PRT ABS	WH MD ABS	FEC L ABS	CNK R ABS	PLM ABS	STC ABS	OLC ABS	LLE ABS	LLN ABS

VARIETY #1 - P9254
VARIETY #2 - P9273

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Exhibit D: Additional Description of Variety

In Exhibit C we have identified 9254 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that 9254 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 9254 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 9254 is a mid group II variety. If group II maturities are divided into tenths, the relative maturity of 9254 is 2.5.

Isozyme information for 9254:

ACO2	ACO3	ACO4	ACP	DIA	ENP	IDH1	IDH2	MDH	MPI	PGM1	PHI1
1	1	1	A	B	A	1	1	B	A	1	1

Exhibit E: Statement of the Basis of Applicants Ownership

Variety 9254 was originated and developed by plant breeders (U.S. nationals) from whom, by agreement, Pioneer Hi-Bred Int'l, Inc. has obtained exclusive rights to 9254. No rights to 9254 are retained by the plant breeder or by any other party.