No. 200300100

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 PURPOSE , 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

'93M60'

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 eighteenth day of July, in the year two thousand three.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - 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) and the Paperwork Reduction Act (PRA) of 1995.

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 OWNER Pioneer Hi-Bred International, Inc

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME

3. VARIETY NAME
93M60

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
7300 N. W. 62nd Avenue
P.O. Box 1004
Johnston, IA 50131

5. TELEPHONE *(include area code)*
515-254-2638

6. FAX *(include area code)*
515-253-2478

FOR OFFICIAL USE ONLY

PVPO NUMBER 200300100

FILING DATE 1/28/03

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
Corporate

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
Iowa

9. DATE OF INCORPORATION
May 6, 1926

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*

Daria Schmidt, Ph. D.
7300 N.W. 62nd Avenue
P.O. Box 1004
Johnston ,IA 50131-1004

Steve Callestine, Exq
7100 N.W 62nd Avenue
P.O Box 1000
Johnston, IA 50131-1000

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 2705.
DATE 1/28/03

CERTIFICATION FEE:
$ 432.00
DATE 6/18/03

11. TELEPHONE *(Include area code)*
515-254-2638

12. FAX *(Include area code)*
515-253-2478

13. E-MAIL
daria.schmidt@pioneer.com

14. CROP KIND *(Common Name)*
Soybean

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

a. ☐ X Exhibit A. Origin and Breeding History of the Variety

b. ☐ X Exhibit B. Statement of Distinctness

c. ☐ X Exhibit C. Objective Description of Variety

d. ☐ X Exhibit D. Additional Description of the Variety *(Optional)*

e. ☐ X Exhibit E. Statement of the Basis of the Owner's Ownership

f. ☐ X Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be depositied and maintained in an approved public repository)*

g. ☐ X Filing and Examination Fee ($2,705), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *See Section 83(a) of the Plant Variety Protection Act)*

☐ YES *(If "yes", answer items 20 and 21 below)* ☐ X NO *(If "no," go to item 22)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? ☐ YES ☐ NO

IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☐ NO

IF YES, SPECIFY THE NUMBER 1, 2, 3, *etc.* ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

(If additional explanation is necessary, please use the space indicated on the reverse.)

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?

☐ YES ☐ X NO

IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?

☐ X YES ☐ NO

IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

24. The owners 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 owner(s) is(are) the owner 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 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

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

SIGNATURE OF OWNER
Daria H. Schmidt

NAME *(Please print or type)*
Daria H. Schmidt

CAPACITY OR TITLE
Director, Technology Integration and Associative Genetics

DATE 1/13/03

SIGNATURE OF OWNER

NAME *(Please print or type)*

CAPACITY OR TITLE

DATE

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete. *(See reverse for instructions and information collection burden statement)*

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable *(in the sense that it will reproduce an entire plant)* tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for $2,705 ($320 filing fee and $2,385 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of $320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

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ITEM

18a. 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) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified

18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety 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 are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, *etc.*

18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.

19. 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 this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. *(See Regulations and Rules of Practice, Section 97.103).*

21. *See Section 83 of the Act for the Contents and Term of Plant Variety Protection.*

22. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

23. *See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.*

21. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

22. CONTINUED FROM FRONT *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

23. CONTINUED FROM FRONT *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. *(See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)*

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. **Origin and Breeding History of the Variety**

Soybean Variety 93M60

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Variety 93M60 evolved from a cross made in the summer of 1996 in Iowa with the following parentage:

Parentage: 93B82/P00048

P00048 = A3431/94B01*

*94B01 is a commercial line with the Roundup Ready (40-3-2) gene

Variety 93M60 is an F3-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 93M60 was grown in a plant row yield trial in the summer of 1998. Subsequently, 93M60 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. On the basis of yield, Phytophthora resistance, resistance to soybean cyst nematode, and resistance to Roundup branded herbicides, variety 93M60 was assigned a commercial number.

The purification block was grown in 2000 Iowa in 72 subline rows, of which 57 were harvested. A two acre increase was grown in Argentina in 2000/2001. Eighty (80) acres of parent seed stock were grown in 2001. Nine hundred fifty (950) acres of parent and production seed were grown in the summer of 2002.

Exhibit B. Statement of Distinctness

Soybean Variety 93M60

Variety 93M60 is also similar to 93B67. Both varieties have yellow seed with black hila, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene, resistance to Race 3 of soybean cyst nematode, and resistance to Roundup branded herbicides. However, 93M60 has purple flowers and light tawny pubescence whereas 93B67 has white flowers and tawny pubescence.

Variety 93M60 is also similar to 93B53. Both varieties have purple flowers, yellow seed with black hila, and resistance to Roundup branded herbicides. However, 93M60 has light tawny pubescence, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene, and resistance to Race 3 of soybean cyst nematode, whereas 93B53 has tawny pubescence multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and is susceptible to Race 3 of soybean cyst nematode.

Variety 93M60 is also similar to AG3502 from Asgrow (Monsanto). Both varieties have purple flowers, yellow seed with black hila, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene, resistance to Race 3 of soybean cyst nematode, and resistance to Roundup branded herbicides. However, 93M60 has light tawny pubescence whereas AG3502 has tawny pubescence.

REPRODUCE LOCALLY. Include form number and date on all reproductions. **Form Approved - OMB No. 0581-0055**

the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. B control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for tructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

artment of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual nd marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, c.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

plaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326□W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964)D). USDA is an equal opportunity provider and employer.

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (*Glycine max* (L.) Merr.)

NAME OF APPLICANT(S) Pioneer Hi-Bred, International	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Cod 7200 62nd Avenue P.O Box 1004 Johnston, IA 50131-1004	PVPO NUMBER 200300100 VARIETY NAME 93M60 TEMPORARY OR EXPERIMENTAL DESIGNATION

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g. [9][9][9] or [0][9]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters chould be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticulutral Society or any recognized color standard may be used to determine plant colors; designate system used: Please answer all questions for your variety; lack of response may delay progress of your application.

A. MORPHOLOGY

Seed Shape

[4]

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 = Elongated (L/T ratio . 1.2; T/W ratio < 1.2)
4 = Elongate - Flattened (L/T ratio > 1.2;T/W ratio > 1.2)

Seed Coat Color:

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

Seed Coat Luster:

[1] **1 = Dull** **2 = Shiny**

Seed Size:

[13.7] **grams/100 seeds**

Hilum Color:

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

A. MORPHOLOGY *(Continued)*

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Cotyledon Color:

1	1 = Yellow	2 = Green

Seed Protein Peroxidase Activity:

2	1 = Low	2 = High

Hypocotyl Color:

3	1 = Green ('Evans' or 'Davis')	2 = Green with Bronze Bands below Cotyledons ('Woodworth' or 'Tracy')	3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')	4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

3	1 = Lanceolate	2 = Oval	3 = Ovate	4 = Other *(Please Specify)*

Flower Color:

2	1 = White	2 = Purple	3 = White with a Purple Throat

Pod Color:

2	1 = Tan	2 = Brown	3 =Black

Pubescence Color:

3	1 = Gray	2 = Brown (Tawny)	3 =Light Tawny

Plant Habit:

3	1 = Determinate	2 = Semi - Determinate	3 =Indeterminate	4 =Intermdeiate

Maturity Group:

06	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	14 = XI	15 = XII

Maturity Subgroup:

6	Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

Bacterial

0	Bacterial Pustule (*Xanthomonas campestri* pv. *glycines* (Nakano) Dye)
1	Bacterial Blight *Pseudomonas syringa* pv. *glycinea* (Coerper) Young, Dye, and Wilkie)
0	Wildfire Blight *Pseudomonas syringa* pv. *tabaci* (Wolf Foster) Young, Dye, Wilkie)

B. DISEASE REACTION *(Continued)* 0 = Not Tested 1 = Susceptibl 2 = Resistant 3 = Tolerant

Fungal

1 Brown Spot *(Septoria glycines* Hemmi)

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Frogeye Leaf Spot *(Cercospora sojina* Hara)

0	race 1	0	race 2	0	race 3	0	race 4
0	race 5	0	race 6	0	Othe *(Please Specify)*		

0 Target Spot *(Corynespora cassiicola* (Berk. _Curt.) Wei)

0 Downey Mildew *(Peronospora trifoliorum var. manchuric* (Naum.) Syd. ex Gäum)

0 Powdery Mildew *(Microsphaera diffusa* Cke. and Pk.)

2 Brown Stem Rot *(Phialophora gregata* (Allington _Chamberlain) W. Gams.)

0 Stem Canker *(Diaporthe phaseolorum* (Cke. and Ell.) Sacc. var *caulivora* Athow and Caldwell

1 Pod and Stem Blight *(Diaporthe phaseolorum* (Cke. and Ell.) Sacc. var *sojae* (Lehman) Wehm

0 Purple Seed Stain *(Cercospora kikuchii* (T. Matsu. and Tomoyasu) Gardener)

1 Rhizoctonia Root Rot *(Rhizoctonia solani* Kühn)

Phytophthora Root Rot *(Phytophthora megasperma* Drechs. f. sp *glycinea* (Kuan Erwin))

0	race 1	0	race 8	0	race 15	0	race 22
0	race 2	0	race 9	0	race 16	0	race 23
1	race 3	0	race 10	0	race 17	0	race 24
1	race 4	0	race 11	0	race 18	1	race 25
0	race 5	0	race 12	0	race 19	0	race 26
0	race 6	0	race 13	0	race20		Other *(Please Specify)*
2	race 7	0	race 14	0	race 21		

1 Bud Blight (Tobacco Ringspot Virus)

1 Yellow Mosaic (bean Yellow Mosaic Virus)

B. DISEASE REACTIONS *(Continued)* 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

Fungal

1	Cowpea Mosaic (Cowpea Chlorotic Virus)
1	Pod Mottle (Bean Pod Mottle Virus)
1	Seed Mottle (Soybean Mosaic Virus)

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Nematode

Soybean Cyst Nematode *(Heterodera glycines* Ichinohe)

0	race 1	0	race 4	0	race 9
0	race 2	0	race 5	0	race 14
2	race 3	0	race 6	0	Other *(Please Specify)*

0	Lance Nematode *(Hoploaimus columbus* Sher)
0	Southern Root Knot Nematode *(Meloidogyne incognita* (Kofoid and White) Chitwo
0	Northern Root Knot Nematode *(Meloidogyne hapla* Chitwood)
0	Peanut Root Knot Nematode *(Meloidogyne arenaria* (Neal) Chitwood)
0	Reniform Nematode *(Rotylenchus reniformu* Linwood and Olivera)
0	Javanese Nematode *(Meloidogyne javanica* (Treub) Chitwood)
	Other Nematode *(Please Specify)*

C. PHYSIOLOGICAL RESPONSES 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

0	Iron Chlorosis on Calcareous Soil
0	Phosphorus
0	Boron
0	Aluminu
0	Salt
0	Drought

Other *(Please Specify)*

D. INSECT REACTIONS

0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

Fungal

0	Mexican Bean Beetle *(Epilachna varivestis* Mulsant)
0	Potato Leaf Hopper *(Empoasca fabae* (Harris))
0	Other *(Please Specify)*

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E. HERBICIDE REACTIONS

0 = Not Tested 1 = Susceptible 2 = Resistant

0	Metribuzin
0	Bentazone
1	Sulfonylurea
2	Glyphosate
0	Glufosinate
0	Pendimethalin
0	Other *(Please Specify)* 0

F. TRANSGENIC COMPOSITION

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety? ☑ Yes ☐ No

If yes, please complete the following infomation requests*. Use additional pages if necessary.

1. Please state the vector's name:

2. Please state the vector components:

3. Please describe the genetic material successfully transferred into the subject variety:

4. Please describe the insertion protocol:

* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form. This section is fully addressed in the following publication. Specific details of the vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgette, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequences Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

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Exhibit D. Additional Description of the Variety

Soybean Variety 93M60

In Exhibit C we have identified variety 93M60 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 variety 93M60 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 93M60 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 93M60 is a mid Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of 93M60 is 3.6.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 *(5 U.S.C. 552a)* and the Paper Reduction Act (PRA) of 1995.

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

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	2. VARIETY NAME
Pioneer Hi-Bred International, Inc		93M60
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	5. TELEPHONE *(Include area code)*	6. FAX *(Include area code)*
7300 N.W. 62nd Avenue *P.O. Box 1004* *Johnston, IA 50131-1004*	*515-254-2638*	*515-253-2478*
	7. PVPO NUMBER 200300100	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block.
If no, please explain.

[ ] X YES [ ] NO

9. Is the applicant (individual or company) a U.S. National or a U.S. based company?
If no, give name of country

[ ] X YES [ ] NO

10. Is the applicant the original owner? [ ] X YES [ ] NO **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

[ ] YES [ ] NO **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

[ ] YES [ ] NO **If no, give name of country**

11. Additional explanation on ownership *(If needed, use the reverse for extra space)*:

Please Note:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) ot the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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