



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:
Koninklijk Kweekbedrijf en Zaadhandel
D. J. van der Have B.V.

Whereas, 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 *eighteen* 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, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

HARD FESCUE

'Hartina'

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 this 15th day of July in the year of our Lord one thousand nine hundred and eighty-two.

Attest:
Kenneth A. Es
 Acting
 Commissioner
 Plant Variety Protection Office
 Grain Division
 Agricultural Marketing Service

John R. Block
 Secretary of Agriculture

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

- 5 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.
- 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 and stability.
- 13b 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.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d 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.
- 14a 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.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY HDu 26		1b. VARIETY NAME Hartina		FOR OFFICIAL USE ONLY	
				PV NUMBER 8100161	
2. KIND NAME Hard fescue		3. GENUS AND SPECIES NAME Festuca longifolia		FILING DATE 9/2/81	TIME 12:00 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Graminae		5. DATE OF DETERMINATION 1975		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 9/2/81 2/24/82
6. NAME OF APPLICANT(S) Koninklijk Kweekbedrijf en Zaadhandel D.J. van der Have B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 1 4420 AA Kapelle Netherlands		8. TELEPHONE AREA CODE AND NUMBER	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Netherlands		11. DATE OF INCORPORATION 8th March 1973	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Mr. Stan Rollin 6802 Orem Drive Seed Consultant Laurel Maryland 20810					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)

13B. Exhibit B, Novelty Statement.

13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)

13D. Exhibit D, Additional Description of the Variety. *6/30/82*

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) YES NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? YES NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? FOUNDATION REGISTERED CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

Netherlands 8th November 1976

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

Netherlands 24th October 1980

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? YES NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

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

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

15-7-1981
 (DATE)

[Signature]
 (SIGNATURE OF APPLICANT) D.J. Glas

(DATE)

(SIGNATURE OF APPLICANT):

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

During the spring of 1965 a collection of hard fescue plants was made in the eastern part of the Netherlands. About 6 plants per ecotype were collected from 50 locations.

The 300 plants were multiplied vegetatively and observed in clonal rows between 1966 and 1969. Clones with a matching appearance were selected and planted in isolation plots to produce Syn-1 seed in 1970.

The experimental varieties were evaluated in turf trials on clay and sandy soil in the south-western part of the Netherlands and in the southern part of Germany.

The experimental variety HDu 26 proved to have a good turf quality. Syn-2 seed of HDu 26 was harvested in 1973. Syn-1 and Syn-2 seed of HDu 26 was compared as spaced plants and in turf in 1974. No genetic shift had occurred during multiplication. No variants were observed in 2 generations of reproduction and the variety was stable during 2 generations of reproduction.

In 1975 it was decided to produce enough breeders' seed for the anticipated need over the next 15 years and to release HDu 26 under the varietal name Hartina.

10/10/81



RECEIVED

SEP 2 1981

U. S. DEPARTMENT



ENERGY

AMS, LPG&S DIV.
PVPO

Amended Exhibit 13 B - NOVELTY STATEMENT

Hartina is most similar to Scaldis; however,

Hartina is 5 days earlier than Scaldis. This is based on the following data from RIVRO/WAGENINGEN, BASED ON TRIALS IN 1979-1981:

Date of Head Emergence (days after April 1)

<u>Year</u>	<u>Replicate</u>	<u>Hartina</u>	<u>Scaldis</u>	<u>LSD 0.01</u>
1979	I	41	44	
	II	39	42	
	III	42	45	
	Mean	41	44	2.9
1980	I	28	33	
	II	26	33	
	III	26	34	
	Mean	27	33	2.9
1981	I	18	23	
	II	13	21	
	III	15	20	
	Mean	15	21	4.3

RECEIVED
NOV 16 1981
U. S. DEPARTMENT
AMS, LPG&S DIV.
PVPO

Ammended Exhibit 13 B - Novelty Statement.

Hartina is most similar to Scaldis, however, the length of the flag leaf of Hartina is 10 mm shorter than that of Scaldis (significant in 1980 and 1981 at P = 0.01).

The height of plant (one month after head emergence) of Hartina is 9 cm shorter than that of Scaldis (significant in 1979, 1980 and 1981 at P = 0.01).

Length of flag leaf (mm).

<u>Year</u>	<u>Replicate</u>	<u>Hartina</u>	<u>Scaldis</u>	<u>LSD 0.01</u>
1979	I	51	49	
	II	47	59	
	III	53	59	
	Mean	50	56	8.0
1980	I	62	77	
	II	67	80	
	III	65	82	
	Mean	65	79	11.1
1981	I	57	71	
	II	55	68	
	III	57	60	
	Mean	56	67	8.4
	overall mean	57	67	

Plant height (cm).

<u>Year</u>	<u>Replicate</u>	<u>Hartina</u>	<u>Scaldis</u>	<u>LSD 0.01</u>
1979	I	68	74	
	II	67	77	
	III	65	74	
	Mean	67	75	4.3
1980	I	71	78	
	II	68	73	
	III	64	75	
	Mean	68	75	6.5
1981	I	73	81	
	II	72	82	
	III	74	85	
	Mean	73	83	5.1
	Overall mean	69	78	

Data provided by RIVRO / Wageningen.
Measured on 60 new plants each year.

WATERBURY, CT
RECEIVED
DEPARTMENT OF
AGRICULTURE

RECEIVED
DEPARTMENT OF
AGRICULTURE

RECEIVED
DEC 1 1981
U.S. DEPARTMENT
AMS, L.P.&S. DIV.
PVPO

WATERBURY, CT
RECEIVED
DEPARTMENT OF
AGRICULTURE

Hard fescue application No. 8100161 Hartina. November 26, 1981

Amended Exhibit 13 D - Additional Information.

Hartina displays a better resistance against *Fusarium nivale* than Scaldis.

U. S. DEPARTMENT
AMS. LFG&S DIV.
PVPD



RECEIVED
DEC 1 1981

8. LEAF BLADE:

1 ANTHOCYANIN: 0 = ABSENT 1 = PRESENT 1 HAIRS (BASAL): 0 = ABSENT 1 = PRESENT 1 MARGINS: 2 = SEMI-ROUGH 3 = ROUGH 1 = SMOOTH

6 5 9 mm LENGTH (FIRST LEAF BELOW FLAG LEAF) 1 6 mm WIDTH 8 8 mm SHORTER THAN 6 2 mm NARROWER THAN 0 1 mm LONGER THAN 6 2 mm WIDER THAN

9. LEAF SHEATH (Plant Base):

2 COLOR: 1 = WHITE (HIGHLIGHT) 2 = RED 1 AURICLE HAIRINESS: 0 = ABSENT 1 = PRESENT

10. PANICLE (Mature plant)

3 3 0 NUMBER OF PANICLES PER PLANT (FIRST YEAR OF PRODUCTION - FALL OR SPRING PLANTING SPECIFY Fall)

0 7 8 mm LENGTH - - - GRAMS OF SEED PER PANICLE 0 8 mm SHORTER THAN 6 2 GRAMS LESS SEED THAN 6 3 mm LONGER THAN 6 3 GRAMS MORE SEED THAN

2 SHAPE: 1 = NARROW-TAPERING 2 = EGG SHAPE 3 = OBLONG 4 = OTHER (SPECIFY) 3 TYPE: 1 = OPEN 2 = INTERMEDIATE 3 = COMPACT 2 HABIT: 1 = ERECT 2 = NODDING 2 BRANCHES: 1 = SMOOTH 2 = ROUGH 6 COLOR (At 50% flowering): 1 = YELLOWISH GREEN 2 = GREEN 3 = BLUISH GREEN 4 = PURPLISH 5 = REDDISH 6 = OTHER (SPECIFY) greyish green

11. PALEA:

1 HAIRS (ON KEELS): 0 = ABSENT 1 = SHORT (OLDS) 2 = LONG (RAINIER)

12. LEMMA:

1 HAIRS: 0 = ABSENT 1 = PRESENT 2 TEXTURE: 1 = SMOOTH 2 = ROUGH 4 5 mm LEMMA LENGTH 8 3 mm LEMMA WIDTH 0 1 mm SHORTER THAN 6 2 mm NARROWER THAN 6 3 mm LONGER THAN 6 3 mm WIDER THAN 1 AWNS: 0 = ABSENT 1 = PRESENT 1 2 mm AWN LENGTH

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY

FESCUE
(*Festuca* spp.)

NAME OF APPLICANT(S) <u>Koninklijk Kweekbedrijf en Zaadhandel D.J. van der Have B.V.</u>	VARIETY NAME OR TEMPORARY DESIGNATION <u>Hartina</u>
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) <u>P.O. Box 1 4420 AA Kapelle Netherlands.</u>	FOR OFFICIAL USE ONLY PVPO NUMBER <u>8100161</u>

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: RIVRO-system. Describe location of test area Wageningen/Rilland Netherlands. All questions need not be answered, however, completeness should be striven for in order to establish the most adequate Variety Identification.

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

- 1 = F. ARUNDINACEA (TALL) 11 = ALTA 12 = FAWN 13 = GOAR 14 = KENTUCKY 31
 2 = F. PRATENSIS (MEADOW) 21 = ENSIGN 22 = TRADER
 3 = F. RUBRA SSP. COMMUTATA (CHEWINGS) 31 = CASCADE 32 = HIGHLIGHT 33 = JAMESTOWN
 4 = F. RUBRA SSP. RUBRA (RED) 41 = BOREAL 42 = PENNLAWN 43 = DAWSON
 5 = F. OVINA VAR. OVINA (SHEEP)
 6 = F. LONGIFOLIA (HARD) 61 = DURAR 62 = BILJART (C-26) 63 = SCALDIS
 7 = OTHER (SPECIFY) F. _____

2. CYTOLOGY

2n CHROMOSOME NUMBER

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

NORTHEAST SOUTHEAST NORTH CENTRAL PACIFIC N.W. OTHER (SPECIFY) South east for overseeding

4. MATURITY: (50% Headed) Give Test Area Wageningen, Netherlands (52° North L.)

<input type="text" value="0"/> <input type="text" value="4"/>	DAYS EARLIER THAN	<input type="text" value="6"/> <input type="text" value="3"/>	} COMPARISON VARIETY
	MATURITY SAME AS	<input type="text" value="6"/> <input type="text" value="2"/>	
<input type="text" value="-"/> <input type="text" value="-"/>	DAYS LATER THAN	<input type="text" value="-"/> <input type="text" value="-"/>	

5. PLANT HEIGHT: (At maturity to top of panicle)

<input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="7"/>	mm HEIGHT		} COMPARISON VARIETY
<input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="0"/> <u>90</u>	mm SHORTER THAN	<input type="text" value="6"/> <input type="text" value="2"/> <u>63</u>	
	HEIGHT SAME AS	<input type="text" value="-"/> <input type="text" value="-"/>	
<input checked="" type="text" value="1"/> <input type="text" value="4"/>	mm TALLER THAN	<input type="text" value="6"/> <input type="text" value="3"/>	

note - data 90 shorter than Scaldis 20 or 26, 1981

6. GROWTH HABIT (Mature)

1 = ERECT (KENTUCKY 31) 2 = SEMI-ERECT (HIGHLIGHT) 3 = PROSTRATE

7. RHIZOMES

mm LENGTH mm WIDTH

0 = ABSENT 1 = WEAKLY CREEPING (DAWSON) 2 = STRONGLY CREEPING (BOREAL) 3 = OTHER _____

8. LEAF BLADE:

COLOR: 1 = LIGHT GREEN (GOLFROOD) 2 = MODERATELY LIGHT GREEN (HIGHLIGHT) 3 = MEDIUM GREEN (JAMESTOWN, KENTUCKY 31)
 4 = DARK GREEN (CASCADE) 5 = BLUEGREEN 6 = GRAYGREEN 7 = OTHER (SPECIFY) _____

12. LEMMA:

<input type="text" value="-"/> <input type="text" value="-"/>	mm SHORTER THAN	<input type="text" value="-"/> <input type="text" value="-"/>	} COMPARISON VARIETY
	LENGTH SAME AS	<input type="text" value="-"/> <input type="text" value="-"/>	
<input type="text" value="0"/> <input type="text" value="3"/>	mm LONGER THAN	<input type="text" value="6"/> <input type="text" value="2"/>	

13. SEED:

<input type="text" value="4"/> <input type="text" value="4"/> <input type="text" value="7"/>	mm LENGTH	<input type="text" value="8"/> <input type="text" value="3"/>	mm WIDTH
<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="9"/>	mm SHORTER THAN	<input type="text" value="6"/> <input type="text" value="2"/>	} COMPARISON VARIETY
	LENGTH SAME AS	<input type="text" value="-"/> <input type="text" value="-"/>	
<input type="text" value="-"/> <input type="text" value="-"/> <input type="text" value="-"/>	mm LONGER THAN	<input type="text" value="-"/> <input type="text" value="-"/>	
		<input type="text" value="1"/> <input type="text" value="1"/>	mm, NARROWER THAN
		<input type="text" value="6"/> <input type="text" value="3"/>	} COMPARISON VARIETY
		<input type="text" value="-"/> <input type="text" value="-"/>	
		<input type="text" value="-"/> <input type="text" value="-"/>	
<input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="6"/> <input type="text" value="1"/>	GRAMS PER 1000 SEED		
<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="7"/>	GRAMS LESS THAN	<input type="text" value="6"/> <input type="text" value="3"/>	} COMPARISON VARIETY
	WEIGHT SAME AS	<input type="text" value="-"/> <input type="text" value="-"/>	
<input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="6"/>	GRAMS MORE THAN	<input type="text" value="6"/> <input type="text" value="2"/>	

14. DISEASE, INSECT, AND NEMATODE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="text" value="0"/> <u>HELMINTHOSPORIUM VAGANS</u>	<input type="text" value="0"/> <u>H. SOROKINIANUM</u>	<input type="text" value="0"/> <u>H. DICTYOIDES</u>
<input type="text" value="0"/> <u>RHIZOCTONIA SOLANI</u>	<input type="text" value="2"/> <u>ERYSIPHE GRAMINIS</u>	<input type="text" value="0"/> <u>USTILAGO STRIIFORMIS</u>
<input type="text" value="2"/> <u>FUSARIUM NIVALE</u>	<input type="text" value="0"/> <u>F. ROSEUM</u>	<input type="text" value="0"/> <u>TYPHULA IOTANA</u>
<input type="text" value="2"/> <u>PUCCINIA GRAMINIS</u>	<input type="text" value="0"/> <u>P. STRIIFORMIS</u>	<input type="text" value="2"/> <u>P. POAE-NEMORALIS</u>
<input type="text" value="2"/> <u>P. CORONATA</u>	<input type="text" value="0"/> <u>PYTHIUM ULTIMUM</u>	<input type="text" value="2"/> <u>CORTICIUM FUSCIFORME</u>
<input type="text" value="0"/> <u>SCLEROTINIA HOMEOCARPA</u>	<input type="text" value="0"/> INSECT _____	<input type="text" value="0"/> NEMATODE _____
<input type="text" value=""/> OTHER _____	<input type="text" value=""/> OTHER _____	<input type="text" value=""/> OTHER _____

15. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate degree of resemblance (D.R.) by placing in the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety
 2 = Same as
 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D. R.
RHIZOME LENGTH	not present		GROWTH HABIT	Scaldis *	3
LEAF WIDTH	Scaldis	1	LEAF COLOR	,,	2
PANICLE COLOR	,,	3	PANICLE SHAPE	,,	2
WINTER COLOR	,,	2	COLD INJURY	,,	2
SHADE TOLERANCE	,,	2	HEAT	,,	2
DROUGHT	,,	2	DISEASE **	,,	3

*Specify each disease evaluated.

* more erect
 ** Fusarium nivale.

16. **ADDITIONAL DESCRIPTION:** (Use additional sheets as required)

Describe all characteristics that cannot be adequately described in the form above. Comparative varieties should be used as may be appropriate, such as for disease. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests.

PVP0
AMS, LFG&S DIV.

30



U. S. DEPARTMENT

RECEIVED
SEP 2 1981