

7900090

# THE UNITED STATES OF A MERRICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# North Carolina Agricultural Research Service

Telhereas, 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 AQUENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXOTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, BTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT HEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. ITED 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 IE OWNER OF THE RIGHTS, (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

OAT

'Brooks'

In Testimony Whereof, I have hexeunto set my hand and caused the seal of the Mant Variety Protection Office to be affixed at the City of Washington

this 26th day of June in the year of our Lord one thousand nine

fundred and eighty.

Allest.

Compissioner
Plant Variety Protection Office

	UNITED STATES DEPARTMEI AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	ETING SERVICE			FORM APPROVED OMB NO. 40-R3822
	PLICATION FOR PLANT VARIE TRUCTIONS: See Reverse.			No certificate for pla be issued unless a co has been received (5 t	nt variety protection may mpleted application form J.S.C. 553).
1a.	TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAM	E	FOR OFFICI	AL USE ONLY
_	N. C. 73-15	Brooks	5	<sup>РV</sup> NUMBER 7900	090
2.	KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE	TIME (A.M.)
	Oats	Avena sa	tiva	7-13-79	10:00 P.M.
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETER	RMINATION	£ 500.00	7-13-79
	Gramineae	9-20-	£ 9/20/79 78	\$ 250.00	5-12-80
6,	NAME OF APPLICANT(S)	7. ADDRESS (Stree	t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA
	North Carolina Agricultura	Code)	lina State Univ	oroi tx	CODE AND NUMBER
	Research Service	School of A Box 5847, I	Agriculture & L Raleigh, N. C.	ife Sciences	(919) 737–2718
9.	IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh	RSON, FORM OF ip, association, etc.)	10. IF INCORPORAT	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION
	Public Institution		N/A		N/A
12.	NAME AND MAILING ADDRESS OF APPL ALL PAPERS:		ATIVE(S), IF ANY, TO S	SERVE IN THIS APPLIC	ATION AND RECEIVE
	Mr. R. W. McMil N. C. Foundatio P. O. Box 5687,	len, Manager n Seed Produce State Univers	ers, Inc. sity Station, R	aleigh, N. C.	27650
13.	CHECK BOX BELOW FOR EACH ATTACH				
	X 13A. Exhibit A, Origin and Bree	1	Variety (See Section 5	2 of the Plant Variety	Protection Act.)
	X 13B. Exhibit B, Novelty Statem	ent.			
	X 13C Exhibit C, Objective Descri	iption of the Variety	(Request form from	Plant Variety Protecti	ion Office.)
	X 13D. Exhibit D, Additional Desc	cription of the Varie	<b>ty.</b>		
14a.	DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answe	SEED OF THIS VAR ir 14B and 14C below.)	IETY BE SOLD BY VAF	NETY NAME ONLY AS	A CLASS OF CERTIFIED
14b.	DOES THE APPLICANT(S) SPECIFY THAT LIMITED AS TO NUMBER OF GENERATION	THIS VARIETY BE	14c. IF "YES," TO 14I TION BEYOND B	B, HOW MANY GENERA	ATIONS OF PRODUC-
	X YES NO		X FOUNDATION	X REGISTERED	X CERTIFIED
15a.	DID THE APPLICANT(S) FILE FOR PROTI	ECTION OF THIS VA			X NO (If "Yes," give
		the state of the s			
15b.	HAVE RIGHTS BEEN GRANTED THIS VA and dates.)	RIETY IN OTHER CO	UNTRIES? YES	X NO (If "Yes,"	give name of countries
			*:		
16.	DOES THE APPLICANT(S) AGREE TO THE JOURNAL?	PUBLICATION OF H	IIS/HER (THEIR) NAME	(S) AND ADDRESS IN	THE OFFICIAL
17.	The applicant(s) declare(s) that a viable replenished upon request in accordance	sample of basic seed with such regulation	d of this variety will b	e furnished with the a	pplication and will be
	The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable a 42 of the Plant Variety Act.	e owner(s) of this se	xually reproduced no	vel plant variety, and l	provisions of Section
÷.	Applicant(s) is (are) informed that false	representation here	in can jeopardize prot ,	ection and result in po	enalties.
; é	5/29/79 (DATE)		Tennett	GIGNATURE OF APPLIC	N. Director
		na tamakon la bilinda di salah s		•	y e s

#### INSTRUCTIONS

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

#### ITEM

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

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

#### **Brooks Oats**

The oat line proposed for release under the name, "Brooks", was tested as N.C. 73-15 and is listed in the World Oat Collection as C.I. 9260. It was derived from the cross: Co x Fgn 4 x Fgn<sub>A</sub> Cmr x Hj-Jt 2 x Atlt x Ctn-SF. The last cross was made in 1967 with the final selection (F<sub>7</sub>) having been made in 1973.

N.C. 73-15 has been tested at the Piedmont Research Station (Rowan Co.) and the Central Crops Research Station (Clayton, N.C.) for four years. It was tested in the 1977 and 1978 Official Variety Tests and the 1977 and 1978 Uniform Central Area Winter Oat Nurseries (in Alabama, Arkansas, Georgia, North Carolina, South Carolina, Texas and Virginia). Results from these tests are attached (Table 1-6).

This oat line is quite impressive. It has compiled an excellent yield record, having yielded 19% more than Salem and 3% more than Coker 227 in 23 state and regional tests grown from 1975 through 1978. It exceeds both Carolee and Salem in test weight and winter hardiness and is quite early in maturity. The additional winter hardiness should be appealing to piedmont farmers, whose oat crops were badly damaged during the last two severe winters. It also has tolerance to barley yellow dwarf virus, our most serious oat disease, and moderate resistance to soil-borne mosaic virus, which is a serious problem in the piedmont.

N.C. 73-15 also offers a new level of overall protein production from oats.

Protein production data (Table 3) from Rowan Co. in 1975 and 1976 indicate at least a 25% advantage in lbs. of protein per acre over other commonly grown varieties. Protein samples were not submitted in 1977 because so many entries were severely damaged by winter killing and Clayton samples were not submitted 1 (Caroleex Fulgrain) x Fulgrain (Cimmaron x Haijara - Joanette) x (Atlantic x Clinton - Santa Fe)

in 1975 or 1976 due to sub-normal conditions resulting from soil problems. It is hoped that 1978 results will be available by the time the Breeders Release Board meets and it is anticipated (based upon yields and groat percentage already available) that this record of high protein production will continue. The potential for total protein production from this variety in a double cropping system with soybeans is very great.

The name Brooks is suggested to honor former Dean of Agriculture and Life Sciences H. Brooks James. The name is short and should be easily recognizable. Mr. McMillen has increased approximately 1100 bushels of "Brooks". This increase will make seed sales to Certified growers possible before the 1978 fall planting.

# THE NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION RALEIGH, NC 27650

### NOTICE OF NAMING AND RELEASE OF BROOKS OAT

The North Carolina Agricultural Experiment Station announces the development and naming of a new oat cultivar, Brooks.

Brooks, C.I 9260, is a high yielding, stiff-strawed winter oat with excellent winterhardiness (43% greater than 'Carolee'), early maturity and exceptional potential for protein production. It has shown at least a 25% advantage in pounds of protein per acre over other commonly grown varieties.

Brooks is a pure line selection from the cross Co x Fgn 4x Fgn 3x Cmr x Hj-Jt 2x Atlt x Ctn-SF. The last cross was made in 1967, with the final selection ( $F_7$ ) having been made in 1973. It was tested, as NC 73-15, by the North Carolina Agricultural Experiment Station from 1975-78. It was also tested from 1977-78 in the North Carolina Official Variety Test and the Uniform Central Area Winter Oat Nursery.

Brooks has some tolerance to barley yellow dwarf virus and moderate resistance to soil-borne mosaic virus.

Breeders seed will be maintained by the North Carolina Agricultural Experiment Station. Foundation seed are being produced by the North Carolina Foundation Seed Producers, Inc.

Suggested date for press release on Brooks oats is October 1, 1978.

Senneth R. Reller Director 9/20/78 Date

North Carolina Agricultural Experiment Station Raleigh, NC 27650

EXHIBIT A - BROOKS OAT

(Supplement)

## Stability Statement

The variety is uniform and stable. No variants have been observed.

### EXHIBIT B - BROOKS OAT

Characteristics	<u>Salem</u>	Brooks
Internodes	Glabrous	Pubescent
Leaf Sheath	Glabrous	Pubescent
Spikelet Separation	Fracture	Semiabscission 39 9/20/7.
Lemma Color	Red	Yellow
Lemma Length	Short	Very Short 8-12 mm. #9/20/79
Length of Second Floret Rachilla Segment	Medium	Long
Awns	Common	Few or Absent

We don't know of any variety "most similar" to Brooks, but we believe 'Salem' is as similar as exists.

	U.S. DEPARTMENT OF ACAGE AGRICULTURAL MARKET GRAIN DIVISION HYATTSVILLE MARY	TING SERVICE	EXHIBIT C
EWE THIS	OBJECTIVE DESCRIPTION	N OF VARIETY	
As a control of the production	( <u>Avena</u> spp.)	AR COLOR	TEMPORARY DESIGNATION
	AMBIELA CO	visitios s s	TEMPORANT DESIGNATION
North Carolina Agricultural Rese	The same of the sa		
ADDRESS (Street and No., or R.F.D.No., City, State, North Carolina State University	; and ZIP Gode)	FOR O	FFICIAL USE ONLY
North Carolina State University School of Agriculture and Life S Box 5847, Raleigh, North Carolin	Sciences na 27650	7900	1090
Place the appropriate number that describes the variet	and the state of t	the second section of the second section of the second second section of the	and the second
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2 JUVENILE GROWTH: 1 = PROSTRATE	19 多人的"海绵"的现在分词	тЕЗ = ERECТ	nam sa sa na namanananananananananananananan sa
	STANDARD'VARI	The second of th	e nor en comme recent de company Normal
1 = JAYCEE 2 = CLINTLAND 64		NORLINE 5 = YAN	CEY 6 = FLORIDA 501
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Q Season: 1 = VERY EARLY (Jaycee)		y 70) 3 Charte Charles	
2 FV H 8 (21/7/ 4 = LATE (Lodi)		rry) 6 = EXTREMEL	Y LATE (Mackinaw)
4. PLANT HEIGHT (From soil level to top of head):	document of the control of	Not Applicable	٦
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HAIRINESS AT UPPER CULM NODES:	1 = HAIRLESS	2 = HAIRY	
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8 9 / रिके / 7 व 6. LEAF: (Leaf Color: The Royal Horticultural Socie	ty'e or any recognized color chart :	should be used to determine the	ast color of the described variety be
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COLOR: 1 = YELLOW GR	700 m c c	4 1 10 m or 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 = BLUE GREEN
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	IDING (Yancey) 2 = SPREA NATE (White Tartar) 5 = CONFL	DING (Cayuse) 3 = DROOPII	NG (Markton)
# + FEGIN	TALL (Winter Failer) 5 - CONFE		4080

ECHA COMPLETE PACKET

8.	RACHIS:		79(	00000
	2 1 = RECURVED (Yancey)	2 = ERECT (Walken)	MM. SECOND FLORET BAC	· - '
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			= HETEROFRACTURE \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			<i>‡</i>	•
	FLORETS PER SPIKELE	T (Mean no.)	TEOMILE 1 TEOMINE	OPE O E WATER .
10	. GLUMES: (Glume Color: The Roya	I.Horticultural Society's or any recogniz	ed color chart should be used to determine	ne the color of the described variety.)
	O 6 MM. WIDTH SERVE	MM. LENGTH 0 7 NO	. OF VEINS ON GLUMES & CO	1 = WHITE 2 = YELLOW LOR: 3 = RED 4 = STRIPED
	VERY MID 24 (CLAS) (CO. A)	2 4/22/80 - Tetter at	4/1/80	
11	[		ed color chart should be used to determin	
	I U MM. LENGIH	h	COLOR: 1 = WHITE 2 = YELLO	
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12	AWN (First floret):	en desa seriari seri seres anno ene	inger film film og som med i klegt politikken. Ekn statistiske hydres skiller film e	a we bearing the contract and the contract of
į	1 OCCURENCEA CONTRABSE	NT (Walken)	TYPE: 1 = NON-TWISTED	2 = TWISTED
	2 = INFRI	EQUENT (Yancey)	3 = TWISTED GENIC	ULATE
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£	FLORESCENCE UNDER ULT	FAVIOLET LIGHT:	= FLORESCENT 2 = N	ON-FLORESCENT
	BASAL HAIR: 1 = ABSE	NT (Florida 501) 2 =	ABSENT TO FEW (Yancey) 3= F	EW TO SEVERAL (Lee)
	4 = SEVE	RAL TO NUMEROUS (Florilee) 5	NUMEROUS (Red Rustproof)	STARD AND VALUETY
vi.	MM BASAL HAIR LENC	III of head):	<del>ll il</del> is to hay hicable. Arma	
and the second	2 5 0 GMS, PER 1,000 SE	EDS 2 AKEAITO	MG. GROAT WEIGHT (each)	and an army construction of the second and army construction of the second and are second as a second and a s
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15.	DISEASE: (0 = NOT TESTED, 1 = S	TIME MANUAL WAR STATE OF THE ST	· .	
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<u>.</u>	<del>/ g - </del> p:22:	RACES SUSCEPTIBLE	RAC	CES RESISTANT
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			Way	Waynesville				Rowan Co.	ço.		
	A.T.	A.T.		I.N.	A T	Z	1977		1978	lα	LN.
Variety	1975	1976	1977	1977	1978	1978	A.T.	U.N.	A.T.	U.N.	1977
N.C. 73-15	25	œ	<b>-</b>	0	0	0	28	52	65	83	92
Carolee	80	15		1	0	ı	9	1 1	œ	ı	ı
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Coker 227	80	55		0	0	O	21	24	89	83	63
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Firecracker	E		0	0	0	1	8	2	<del> </del>	1	32
										2	00

Table 4. Winter hardiness (percent survival) of N.C. 73-15 and selected check varieties

Mean of 6 locations in 5 states

U.N. 1977 Clemson, U.N. 1978 A.T. 1978 Soil-borne mosaic (percent infection) on N.C. 73-15 and selected check varieties U.N. 1977 Clayton A.T. 1977 A.T. 1976 ဓ္က A.T. 1976 Rowan Co. A.T. 1975 Coker 66-22 Firecracker N.C. 73-15 Coker 227 Table 5. Carolee Variety Salem

Table 6. Miscellaneous agronomic notes on N.C. 73-15 and selected check varieties

		2/	Heading <sub>3/</sub>
Variety	Height — in	Lodging %	Date _ after 1/1
N.C. 73-15	31.4	30	113.3
Carolee			
Salem	30.3	9	115.0
Coker 227	28.9	25	112.7
Coker 66-22			
Firecracker	30.4	0	116.7

 $\frac{1}{2}$  Mean of 8 locations  $\frac{2}{3}$  Mean of 2 locations  $\frac{3}{3}$  Mean of 7 locations