No. 9000219

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Plant Breeders 1 Inc.

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

WHEAT

'Salmon'

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* 31st *day of* March *in the year of our Lord one thousand nine hundred and* ninety-three.

Attest:

Kenneth A. Evans

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

Public reporting burden for this collection of information is estimated to average 30 minutes 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. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

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)*: Plant Breeders 1 Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.: PB1-79-WW-57A

3. VARIETY NAME: Salmon

4. ADDRESS *(street and no. or R.F.D. no., city, state, and ZIP)*: 851 East 7th Street, Moscow, Idaho 83843

5. PHONE *(include area code)*: (208)882-4483

6. GENUS AND SPECIES NAME: Triticum aestivum

7. FAMILY NAME *(Botanical)*: Gramineae

8. CROP KIND NAME *(Common Name)*: Wheat

9. DATE OF DETERMINATION: August 1983

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

11. IF INCORPORATED, GIVE STATE OF INCORPORATION: Idaho

12. DATE OF INCORPORATION: January 1, 1985

FOR OFFICIAL USE ONLY

PVPO NUMBER: 9000219

FILING — Date: July 3 1990 — Time: [X] A.M. [ ] P.M.

FEES RECEIVED — Filing and Examination Fee: $2150.— — Date: July 3, 1990 — Certificate Fee: $250.00 — Date: March 4, 1993

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Wayne L. McProud
851 East 7th Street
Moscow, Idaho 83843

PHONE *(Include area code)*: (208)882-4483

14. 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, Novelty Statement.
- c. [X] Exhibit C, Objective Description of Variety.
- d. [X] Exhibit D, Additional Description of Variety.
- e. [X] Exhibit E, Statement of the Basis of Applicant's Ownership.
- f. [X] Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____
- g. [X] Filing and Examination Fee ($2,150) made payable to "Treasurer of the United States."

RECEIVED USDA AMS JUL 3 - 1990 Plant Variety Protection Ofc.

15. 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) of the Plant Variety Protection Act.)*
[X] YES *(If "YES," answer items 16 and 17 below)* [ ] NO *(If "NO," skip to item 18 below)*

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
[X] YES [ ] NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
[X] FOUNDATION [X] REGISTERED [X] CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
[ ] YES *(If "YES," through* [ ] Plant Variety Protection Act [ ] Patent Act. Give date: _____ .)
[X] NO

19. HAS 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)
[X] NO

20. The applicant(s) declare(s) that a viable sample of basic seeds 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 Protection Act.

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

SIGNATURE OF APPLICANT *(Owner(s))*	CAPACITY OR TITLE	DATE
Wayne L. McProud	President	June 28 1990
SIGNATURE OF APPLICANT *(Owner(s))*	CAPACITY OR TITLE	DATE
Vera L. McProud	Secretary	June 28, 1990

EXHIBIT A: Origin and breeding history of 'Salmon'

A bulk population created by combining hundreds of random single head selections (the F2 plants from which these single head selections were made resulted from multiple crosses among numerous parents) was obtained by Plant Breeders 1 Inc. (PB1) from the CIMMYT, Oregon State University International Winter Wheat Breeding Program in 1978. In the F3 generation scores of single plant selections, including the selection destined to become 'Salmon', were made. Lines from these single plant selections were teseted in PB1's screening, preliminary, intermediate and advanced trials in succeeding years. In 1983 'Salmon' was head hilled to select for line uniformity. A second round of head hilling was done in 1987 in preparation for the 1989 breeders seed increase. 'Salmon', which is composed of 120 separately maintained sub lines, is stable and uniform.

EXHIBIT B: Novelty statement

'Salmon' is most similar to the soft white winter wheat 'Stephens'. One difference between 'Salmon' and 'Stephens' is that 'Salmon' heads about 3.5 days later than 'Stephens' (Table 1). Just after heading 'Salmon's' flag leaf tends to droop while 'Stephen's' flag leaf remains mostly erect. 'Stephens' is resistant to those races of stripe rust present in Culdesac, Idaho, in the years 1981, 1984 and 1990 while 'Salmon' is moderately resistant to those races (Table 2).

TABLE 1: COMPARING PACIFIC NORTHWEST GROWN 'SALMON' AND 'STEPHENS' SOFT WHITE WINTER WHEATS FOR HEADING DATES *

YEAR/LOCATION	SALMON	STEPHENS
1981 Culdesac ID	149	147
1984 Culdesac ID	162	155
1985 Culdesac ID	153	148
1986 Culdesac ID	149	148
1987 Culdesac ID	132	132
1988 Culdesac ID	155	149
1988 Pullman WA	165	164
1989 Culdesac ID	153	147
1990 Culdesac ID	146	143
Average	151.6	148.1

* Heading date expressed in days from January 1

TABLE 2: COMPARING 'SALMON', 'STEPHENS' AND 'NUGAINES' SOFT WHITE WINTER WHEATS FOR STRIPE RUST *

YEAR/LOCATION	SALMON	STEPHENS	NUGAINES
1981 Culdesac ID	1/5	Trace	1/20
1984 Culdesac ID	1/10	Trace	2/15
1990 Culdesac ID	0/2	Trace	1/5

* Numerator = pustule type (0 = small necrotic spot, 4 = vigorous pustulation)
Denomenator = percentage of leaf area damaged by the stripe rust

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-6
(2-15-73)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Plant Breeders 1 Inc.

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
851 East 7th Street
Moscow, Idaho 83843

FOR OFFICIAL USE ONLY
PVPO NUMBER 9000219
VARIETY NAME OR TEMPORARY DESIGNATION SALMON

7/3/90

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. KIND:

[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

[2] 1 = SPRING 2 = WINTER 3 = OTHER *(Specify)* _____

[1] 1 = SOFT 2 = HARD 3 = OTHER *(Specify)* _____

[1] 1 = WHITE 2 = RED 3 = OTHER *(Specify)* _____

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

[2][3][1] FIRST FLOWERING [2][4][1] LAST FLOWERING

4. MATURITY *(50% Flowering)*:

[0][1] NO. OF DAYS *EARLIER* THAN ..... [5] 1 = ARTHUR 2 = SCOUT 3 = CHRIS

[ ][ ] NO. OF DAYS *LATER* THAN ..... [ ] 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT *(From soil level to top of head)*:

[0][9][1] CM. HIGH

[0][6] CM. TALLER THAN ..... [5] 1 = ARTHUR 2 = SCOUT 3 = CHRIS

[ ][ ] CM. SHORTER THAN ..... [ ] 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING *(See reverse)*:

[3] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHER COLOR:

[1] 1 = YELLOW 2 = PURPLE

8. STEM:

[1] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom: 1 = ABSENT 2 = PRESENT

[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

[1] Internodes: 1 = HOLLOW 2 = SOLID

[0][4] NO. OF NODES *(Originating from node above ground)*

[2][4] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

[1] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

[1] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER *(Specify)*: _____

[2] Flag leaf: 1 = NOT TWISTED 2 = TWISTED

[1] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

[1][9] MM. LEAF WIDTH *(First leaf below flag leaf)*

[2][5] CM. LEAF LENGTH *(First leaf below flag leaf)*:

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11. HEAD:

[1] Density: 1 = LAX 2 = DENSE

[2] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER *(Specify)* _____

[4] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[1] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER *(Specify)*: _____

[1 2] CM. LENGTH

[1 5] MM. WIDTH

12. GLUMES AT MATURITY:

[3] Length: 1 = SHORT *(CA. 7 mm.)* 2 = MEDIUM *(CA. 8 mm.)* 3 = LONG *(CA. 9 mm.)*

[3] Width: 1 = NARROW *(CA. 3 mm.)* 2 = MEDIUM *(CA. 3.5 mm.)* 3 = WIDE *(CA. 4 mm.)*

[2] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[3] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

[1] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[2] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

[3] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

[1] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

[1] Cheek: 1 = ROUNDED 2 = ANGULAR

[1] Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

[1] Brush: 1 = NOT COLLARED 2 = COLLARED

[2] Phenol reaction *(See instructions)*: 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[2] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER *(Specify)* _____

[0 7] MM. LENGTH

[0 3] MM. WIDTH

[3 6] GM. PER 1000 SEEDS

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17. SEED CREASE:

[1] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[1] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[1] STEM RUST *(Races)* _____

[1] LEAF RUST *(Races)* _____

[2] STRIPE RUST *(Races)* _____

[0] LOOSE SMUT

[1] POWDERY MILDEW

[0] BUNT

[1] OTHER *(Specify)* Dwarf Bunt

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] SAWFLY

[0] APHID *(Bydv.)*

[0] GREEN BUG

[0] CEREAL LEAF BEETLE

[ ] OTHER *(Specify)* _____

HESSIAN FLY RACES: [0] GP [0] A [0] B [0] C [0] D [0] E [0] F [0] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Syringa	Seed size	Stephens
Leaf size	Stephens	Seed shape	Stephens
Leaf color	Stephens	Coleoptile elongation	Stephens
Leaf carriage	Stephens	Seedling pigmentation	Stephens

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. *(See attachment.)*

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

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EXHIBIT D: Additional description of 'Salmon'

'Salmon' is a common soft white winter wheat, Triticum aestivum L.

When seeded at Culdesac, Idaho, on or about October 5, 'Salmon's' average heading date is June 1 or three (3) days later than 'Stephens' and one (1) day earlier than 'Daws'. 'Salmon's' coleoptile color is white; juvenile growth erect; color at booting green to blue green. 'Salmon' averages 91 cm in height, that being one (1) cm and two (2) cm taller than 'Stephens' and 'Daws' respectively.

'Salmon' has yellow anthers; stems lack anthocyanin, have waxy bloom, are hallow with 4 to 5 nodes; length between flag leaf and first leaf below about 25 cm. The last rachis internode has hairs along edge.

As juvenile 'Salmon's' auricles lack anthocyanin, has hairs. 'Salmon's' flag leaf at booting erect to slightly erect, twisted; first leaf sheath waxy, glabrous. First leaf below flag leaf 19 mm wide, 25 cm long; leaf sheath's waxy. Head is awned, strap tending to clavate, lax, blond colored at maturity, 12 cm long, 15 mm wide. Glumes long, mid-wide to wide, shoulders wanting to oblique, beak acuminate.

The seed of 'Salmon' is ovate; cheek rounded; brush short to mid-short, non-collared; amber to white in color; 7 mm long, 3 mm wide; phenol reaction fawn; seed crease width 60% of kernel, depth 25% to 35% of kernel. 1000 grain weight is about 36 grams.

EXHIBIT E: Statement of the basis of applicant's ownership.

Plant Breeders 1 Inc. is the breeder of the soft white winter wheat 'Salmon'.

TABLE 8: COMPARING 'SALMON', 'STEPHENS', 'DAWS' AND 'NUGAINES' SOFT WHITE WINTER WHEATS FOR STRIPE RUST *

YEAR/LOCATION	SALMON	STEPHENS	DAWS	NUGAINES
1981 Culdesac ID	1/5	Trace	Trace	1/20
1984 Culdesac ID	1/10	Trace	1/1	2/15

* Numerator = pustule type (1 = small necrotic spot, 4 = vigorous pustulation)
Denomenator = percentage of leaf area damaged by the stripe rust

TABLE 9: COMPARING 'SALMON', 'STEPHENS', 'DAWS' AND 'NUGAINES' SOFT WHITE WINTER WHEATS FOR LEAF RUST *

YEAR/LOCATION	SALMON	STEPHENS	DAWS	NUGAINES
1980 Culdesac ID	30	30	60	60
1984 Culdesac ID	50	10	40	80
1986 Culdesac ID	5	5	8	90

* Leaf rust expressed as percentage of leaves covered with rust pustules.

Quality data presented in the following six tables was collected by USDA/ARS Western Wheat Quality Laboratory located in Pullman, Washington.

TABLE 10: COMPARING 'SALMON', 'STEPHENS' AND 'DAWS' SOFT WHITE WINTER WHEATS FOR FLOUR YIELDS *

YEAR/LOCATION	SALMON	STEPHENS	DAWS
1983 Culdesac ID	71.8	73.5	71.9
1984 Culdesac ID	65.2	67.8	65.8
1985 Culdesac ID	67.6	67.6	66.9
1986 Hermiston OR	72.0	73.5	70.6
1987 Culdesac ID	67.5	70.0	66.2
1988 Culdesac ID	69.4	71.6	67.8
Average	68.9	70.7	68.2

* Flour yields expressed as percentage of flour obtained

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TABLE 11: COMPARING 'SALMON', 'STEPHENS' AND 'DAWS' SOFT WHITE WINTER WHEATS FOR MIXOGRAPH ABSORPTION *

YEAR/LOCATION	SALMON	STEPHENS	DAWS
1983 Culdesac ID	53.0	53.9	53.7
1984 Culdesac ID	54.5	55.2	55.2
1985 Culdesac ID	56.5	53.5	53.4
1986 Hermiston OR	53.8	53.8	54.6
1987 Culdesac ID	57.6	55.9	56.1
1988 Culdesac ID	60.4	57.9	58.6
Average	56.0	55.0	55.3

* Mixograph absorption corrected for protein (%)

TABLE 12: COMPARING 'SALMON', 'STEPHENS' AND 'DAWS' SOFT WHITE WINTER WHEATS FOR FLOUR PROTEIN *

YEAR/LOCATION	SALMON	STEPHENS	DAWS
1983 Culdesac ID	8.1	8.9	8.8
1984 Culdesac ID	9.0	9.9	8.6
1985 Culdesac ID	11.0	11.9	10.6
1986 Hermiston OR	9.0	9.4	9.8
1987 Culdesac ID	8.8	9.8	10.0
1988 Culdesac ID	10.0	10.2	9.9
Average	9.3	10.0	9.6

* Flour protein percentage at 14% moisture basis

TABLE 13: COMPARING 'SALMON', 'STEPHENS' AND 'DAWS' SOFT WHITE WINTER WHEATS FOR COOKIE DIAMETER *

YEAR/LOCATION	SALMON**	STEPHENS**	DAWS**
1983 Culdesac ID	9.15 [9.05]	9.24 [9.23]	8.79 [8.77]
1984 Culdesac ID	8.92 [8.92]	9.07 [9.15]	8.75 [8.72]
1985 Culdesac ID	8.79 [8.79]	8.95 [9.05]	8.70 [8.66]
1986 Hermiston OR	9.25 [9.25]	9.06 [9.11]	8.90 [8.99]
1987 Culdesac ID	9.51 [9.38]	9.32 [9.30]	9.05 [9.05]
1988 Culdesac ID	8.98 [8.87]	9.19 [9.10]	8.77 [8.65]
Average	9.10 [9.04]	9.14 [9.16]	8.83 [8.81]

* Cookie diameter expressed in centimeters

** Inside parenthesis cookie diameter (cm) corrected for protein to the mean protein of the nursery

TABLE 14: COMPARING 'SALMON', 'STEPHENS' AND 'DAWS' SOFT WHITE WINTER WHEATS FOR FLOUR ASH *

YEAR/LOCATION	SALMON	STEPHENS	DAWS
1983 Culdesac ID	0.38	0.38	0.36
1984 Culdesac ID	0.38	0.36	0.36
1985 Culdesac ID	0.48	0.46	0.42
1986 Hermiston OR	0.48	0.47	0.45
1987 Culdesac ID	0.29	0.30	0.27
1988 Culdesac ID	0.39	0.36	0.33
Average	0.40	0.39	0.37

* Flour ash percentage at 14% moisture basis

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TABLE 15: COMPARING 'SALMON', 'STEPHENS' AND 'DAWS' SOFT WHITE WINTER WHEATS FOR MILLING SCORE *

YEAR/LOCATION	SALMON	STEPHENS	DAWS
1983 Culdesac ID	88.3	90.2	89.8
1984 Culdesac ID	80.8	84.6	82.2
1985 Culdesac ID	76.4	78.2	79.3
1986 Hermiston OR	81.9	85.0	82.6
1987 Culdesac ID	88.5	91.0	88.0
1988 Culdesac ID	84.5	89.1	86.2
Average	83.4	86.3	84.7

* Milling score = [(80 - flour yield) + 50 (flour ash - 0.30) + 0.48 (milling time - 12.5) + 0.5 (65 - % long patent) + 0.5 (16 - 1st tempering moisture)]