No. 7600025

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Greenbush Seed and Supply

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 seventeen 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. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF 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.)

WHEAT

'GB 2148'

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* 16th *day of* March *in the year of our Lord one thousand nine hundred and* seventy-eight

PLANT VARIETY PROTECTION OFFICE · U.S. DEPARTMENT OF AGRICULTURE

Attest:

Acting Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

No. 7600025

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Robert J. Jacquinot and
Steven M. Jacquinot

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 seventeen 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 EX-DE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. NITED 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 THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'GE 2148'

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* 16th *day of* March *in the year of our Lord one thousand nine hundred and* seventy-eight.

Attest:

Kenneth H. E

Acting Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R Block

Secretary of Agriculture

FORM GR-470
(12-15-72)

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

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION: ~~2148~~ GB 2148	2. KIND NAME: Hard Red Winter	FOR OFFICIAL USE ONLY — PV NUMBER: 7600025
3. GENUS AND SPECIES NAME: Triticum aestivum	4. FAMILY NAME (Botanical): Graminaeae	FILING DATE: 12-15-75 — TIME: 2:00 P.M.
	5. DATE OF DETERMINATION: 1972	FEE RECEIVED: $250.00, $250.00, $250.00 — BALANCE DUE: $12-15-75, $5-19-77, $10-5-77
6. NAME OF APPLICANT(S): Greenbush Seed & Supply	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code): Girard, Kansas 66743	8. TELEPHONE AREA CODE AND NUMBER: 316-724 8281
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Greenbush Seed & Supply, Inc.	10. STATE OF INCORPORATION: Kansas	11. DATE OF INCORPORATION: Oct. 17, 1969

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Kenneth L. Goertzen
Seed Research Associates
Route 2
Scott City, Kansas 67871

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Botanical Description of the Variety
- [X] 13C. Exhibit C, Objective Description of the Variety
- [X] 13D. Exhibit D, Data Indicative of Novelty
- [X] 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

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.)* [X] YES [ ] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [X] YES [ ] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? [X] FOUNDATION [ ] REGISTERED [X] CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes 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 is informed that false representation herein can jeopardize protection and result in penalties.

12/12/75
(DATE)

Greenbush Seed & Supply, Inc.
E. H. Jaeger, President
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

1

EXHIBIT A: Wheat Application No. 7600025, (GB 2148) RE ~~(2148I)~~ RE

Origin and Breeding History:

Sturdy X SRAI 2370 (Selection from bulk World Collection-Identity Unknown)

A single plant from this cross was selected in 1969 in F_4 generation. Increase was started from this single plant selection in crop year 1969-70.

Purity was maintained by roguing and isolation from the time breeder's seed increase started.

The variation in 'GB 2148' ~~2148I~~ is no greater than that found in Scout when grown in the same environment.

Breeders seed will be increased from selections made from this line that exhibit the varietal characteristics of ~~2148I.~~ 'GB 2148'.

~~50% straw chaff variants~~

'GB 2148' ~~2148I~~ meets stability standards for hard red winter wheat varieties.

RE. Letter of march 3, 1977,

Description of ~~2140I~~ GB 2148

Semi dwarf, hard red winter wheat with good straw strength

The kernel is light red, hard, short and wide oval.

Germ is midsize, brush large, crease 60% or less of kernel width, depth 35% or less of kernel with cheeks rounded

The spike is awned, oblong; glume color is brown ~~and white~~ often with a black overlay.

Spike is medium dense.

Under favorable conditions 3 to 4 seeds set per spikelet.

Superior to Scout 66 and Centurk for soil borne mosaic resistance.

Leaf rust resistance superior to Scout 66

5" shorter than Scout 66

Heads 3 days earlier than Scout 66

Lodging resistance better than Centurk or Scout 66

Brown ~~and straw~~ chaff ~~in approximately equal numbers~~

Bearded

Mixing time shorter than Scout (see Finney Data 1974)

Protein higher than Scout (see Finney Data 1974)

Letter of 12-3-76

2148

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-5
(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): Greenbush Seed & Supply

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*): Girard, Kansas 66743

FOR OFFICIAL USE ONLY

PVPO NUMBER

VARIETY NAME OR TEMPORARY DESIGNATION: ~~2148I~~ GB 2148

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

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

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

[ ][ ][ ] FIRST FLOWERING [ ][ ][ ] LAST FLOWERING

4. MATURITY (50% Flowering):

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

[0][2] NO. OF DAYS *LATER* THAN ..... [7] 4 = LEMHI 5 = NUGAINES 6 = LEEDS 7 = Triumph

5. PLANT HEIGHT (*From soil level to top of head*): (Scott County -1975 Irrigated)

[ ][6][9] CM. HIGH

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

[3][4] CM. SHORTER THAN ..... [2] 4 = LEMHI 5 = NUGAINES 6 = LEEDS

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

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

[1][6] 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:

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

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

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

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

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

[2][1] CM. LEAF LENGTH (*First leaf below flag leaf*):

EXHIBIT D: Plant Variety Protection No. 7600025 'GB 2148 ~~2148 I~~' KE wheat GB 2148 ~~I~~ KE compared to most similar variety 5210

	GB 2148 ~~2148I~~ KE	5210
Season	early	early
Height	semi dwarf	semi dwarf
Chaff Color	brown	straw
Soil borne Mosaic	Resistant	Susceptible

Exhibit E Ownership of GB 2148

Greenbush Seed and Supply of Girard, Kansas is the owner of GB 2148 through purchase from Seed Research Associates Inc. Plant breeders for Seed Research Associates Inc. are Kenneth and Betty Goertzen.

2148 DATA with Scout Check

S.C 1972 Irrigated Yield Trial (Scott County)
2 waterings 150# N/A 30#/Acre planting rate

Scout 66	79 bu/Acre	41"
GB 2148X RC	93 bu/Acre	37"

GB 2148X RC was early, excellent on early vigor, had good tillering ability and was given a good pasture rating.

SC 1973 Dryland Yield Test (Scott County)

	Bu/Acre Yield	Ht.	% yield compared to Scout	% Protein compared to Scout
Scout	51 bu/Acre	normal	100	100
GB 2148X RC	54 bu/Acre	semi dwf.	106	112

SC 1974 Irrigated - 1 irrigation 70# N/Acre
30#/Acre planting rate (Scott County)

Scout	66 bu/Acre	37" height	13.49% protein
GB 2148X RC	66 bu/Acre	29" height	16.35% "

Irrigated yield plot
Scott City, Kansas - 1975
3 waterings

VARIETY	YIELD Bu./acre	Height cm	Days to Heading Compared to Scout	Lodging%	Leaf Rust Rating 5 best	Protein
Scout	63	103	0	30%	3.5	—
Dual I	74.5	82	-1	0%	5	14.45
Dual III	69	78	-1	0%	5	—
Dual V	67	82	-3	0%	5	15.68
Dual VIII	71	83	-1	0%	5	15.02
G62148 I_{RE}	66	69	-4	0%	5	—
Plainsman IV	69.8	85	-4	0%	5	18.12
Plainsman V	72.5	78	-5	0%	5	—
Plainsman IX	66.7	78	-4	0%	5	17.55
Plainsman VIII	74	84	-4	0%	5	16.92
4555	70.3	76	-4	0%	4.5	—
4543	63.5	74	-3	0%	3	15.78
Eagle	64	95	0	10%	4	—
Centurk	61	98	+2	10%	4	—

WINTER WHEAT NOTES AND YIELD _ HUTCHINSON, KANSAS 1973-74

	% of Centurk & Scout 66	Days from Jan. 1 to heading	Height	1 to 9 with SBM resita
Centurk	98.6	131	36"	3
Scout 66	101.4	132	36"	5
GB 2148 Ie	146.9	129	31"	2
Dual V	127.3	130	31"	5
Dual III	123.2	130	30"	5
Plainsman V	151.9	129	33"	3
Plainsman IV	126.3	128	36"	4
Plainsman VIII	146.9	128	36"	3

Yield of average of Centurk and Scout 66 was 6.51 lbs/ plot or 27 bu./ acre.

Dryland Yield and Observation Plot
1975 Haven, Kansas
(Reno County)

Variety	Days to Heading compared to Triumph 64	Yield Bu/Acre	Test weight	Yield as % of Triumph 64	% Protein	# Protein/Acre	Protein per Acre as % of Triumph 64
Triumph 64	0	28	60	100	10.9	183	100
Dual I	+2	51	60	182	10.2	312	170
Dual III	+4	57	61	204	12.0	410	224
Dual V	+4	53	60	189	11.9	378	207
Dual VIII	+2	47	60	168	10.9	307	168
GB 2148X	+2	47	62	168	11.9	336	184
Plainsman IV	0	51	61	182	13.4	410	224
Plainsman VI	-1	64	62	229	12.9	495	270
Plainsman VIII	0	72	62	257	13.6	587	321
4555	-2	50	61	179	10.8	324	177

Continuous Crop - low soil fertility

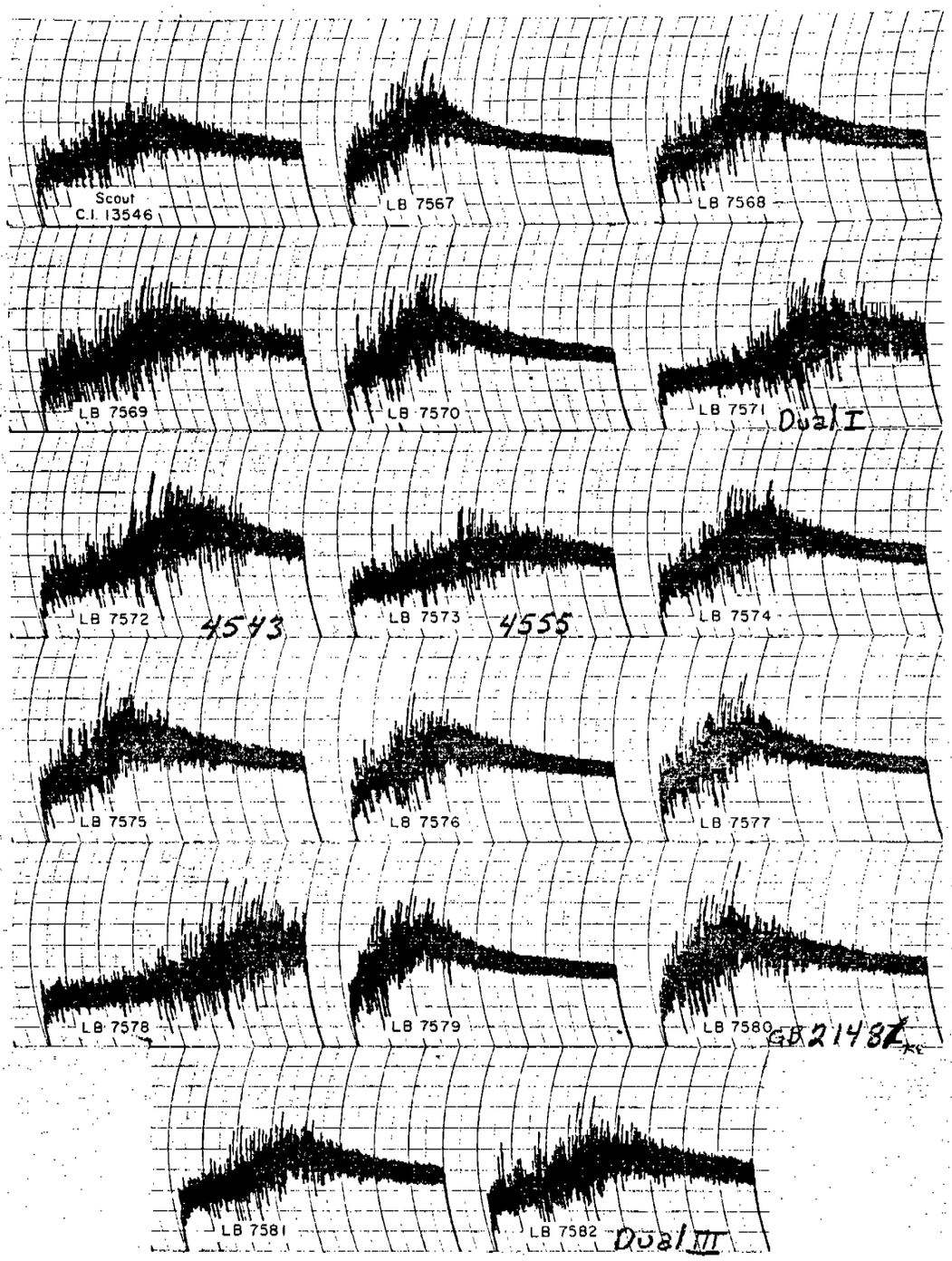

Fig. 2. Mixograms (10-g.) for genetically high-protein special plant breeders' samples of hard winter wheat progenies harvested in Scott County, Kansas in 1974.

FORM GR-470-6 (REVERSE)

11. HEAD:

[2] Density: 1 = LAX 2 = DENSE Mid

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

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

5 [X] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): ~~1 & 5 mixed~~ xx

[0 8] CM. LENGTH

[1 0] 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.)

[1] 1 Glabrous 2 Pubescent

[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:

[1] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

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

16. SEED:

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

[1] Check: 1 = ROUNDED 2 = ANGULAR

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

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

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

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

[0 6] MM. LENGTH [0 3] MM. WIDTH [3 0] GM. PER 1000 SEEDS

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'

[2] 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)

[2] STEM RUST (Races)

[2] LEAF RUST (Races)

[0] STRIPE RUST (Races)

[0] LOOSE SMUT

[0] POWDERY MILDEW

[0] BUNT

[2] OTHER (Specify) Soil borne mosaic

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

[ ] SAWFLY

[ ] APHID (Bydv.)

[ ] GREEN BUG

[ ] CEREAL LEAF BEETLE

[ ] OTHER (Specify)

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

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

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

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. Wells, 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.

Letter of 12-3-76

Hard Winter Wheat Quality Research Unit US Grain Marketing Research Center Manhattan Kansas

Table 1. Chemical, Milling and Baking Data for Genetically High-Protein Special Plant Breeders' Samples of Hard Winter Wheat Progenies Harvested in Scott County, Kansas in 1974. 1/

Variety	C.I. or Sel. No.	Wheat 2/ Wt. Per Bu.	Wheat 2/ Ash	Wheat 2/ Protein	Wheat 2/ Flour Yield	Flour 2/ Ash	Flour 2/ Protein	Bread-baking Data 2/ Absorption	Bread-baking Data 2/ Mixing Time 3/	Bread-baking Data 2/ Crumb Grain	Bread-baking Data 2/ Loaf Volume As Rec'd	Bread-baking Data 2/ Loaf Volume Corrected To 14.5% P
		lbs.	%	%	%	%	%	%	min.		cc.	cc.
GROUP 1												
Scout	13546	63.4	1.61	12.6	73.7	.44	11.9	65.5	3 7/8	S	913	1091
LB 7514		57.1	1.75	15.9	71.2	.46	14.9	70.4	4 1/8	S	1182	1152 5/
LB 7515		57.6	1.72	14.7	72.5	.47	13.8	65.2	4 1/4	Q-S	979	1023
LB 7516		60.6	1.81 Q	14.7	73.8	.53 Q	14.1	69.9	4	S	1072	1100 5/
LB 7517		62.0	1.60	16.3	76.0	.43	15.6	66.5	3 1/4	S	1139	1066
LB 7518	Plainsman IX	61.9	1.61	17.9	76.3	.46	17.2	71.4	10 1/2 U	S	1271	1086
LB 7519	Plainsman VIII	62.0	1.51	16.5	76.5	.43	16.0	70.7	8 3/8 Q	S	1213	1108
LB 7520	Quail VIII	61.7	1.58	13.8	75.7	.51 Q	13.3	65.0	6 1/4	S	1061	1150
LB 7528		62.6	1.58	14.5	75.8	.44	13.8	68.3	5 7/8	S	1010	1056
GROUP 2												
Scout	13546	63.4	1.65	12.5	70.0	.43	11.4	66.4	3 3/4	S	920	1146
LB 7567		61.5	1.64	15.9	73.0	.43	14.5	67.2	3	S	1102	1102
LB 7568		61.0	1.60	15.8	73.9	.43	14.6	69.7	3 3/4	S	1105	1098 5/
LB 7569		61.4	1.58	13.9	74.8 4/	.50 Q	12.8	61.7	6 1/2	S	1020	1145
LB 7570		60.3	1.68	14.9	73.3	.48	13.8	64.2	3 3/8	S	1058	1107
LB 7571	Quail I	59.6	1.83 Q	14.2	73.2 4/	.49 Q	13.0	62.2	7 5/8 Q	S	1100	1220
LB 7572	9543	60.6	1.56	16.4	73.6	.43	15.2	69.4	5 3/4	S	1170	1120 6/
LB 7573	9555	62.7	1.59	13.8	73.9	.43	12.6	65.4	5 5/8	S	977	1111
LB 7574		60.8	1.65	16.4	74.0	.44	15.1	70.6	3 5/8	S	1125	1084 5/

Table 1. (cont.), page 2

Variety	C.I. or Sel. No.	Wheat[2/] Wt. Per Bu.	Wheat[2/] Ash	Wheat[2/] Protein	Wheat[2/] Flour Yield	Flour[2/] Ash	Flour[2/] Protein	Bread-baking Data[2/] Absorption	Bread-baking Data[2/] Mixing Time[3/]	Bread-baking Data[2/] Crumb Grain	Bread-baking Data[2/] Loaf Volume As Rec'd	Bread-baking Data[2/] Loaf Volume Corrected To 14.5% P
		lbs.	%	%	%	%	%	%	min.		cc.	cc.
GROUP 2 (cont.)												
LB 7575		58.9	1.68	15.8	74.0	.47	14.6	68.2	$3\frac{1}{2}$	S	1098	1091 5/
LB 7576		60.6	1.69	15.7	74.2	.50 Q	14.7	67.1	$3\frac{1}{4}$	S	1120	1106
LB 7577		60.8	1.70	16.0	73.2	.48	15.0	71.2	$3\frac{1}{8}$	S	1176	1139
LB 7578		59.8	1.71	16.3	72.8	.47	15.3	69.9	$10\frac{1}{2}$ U	S	1198	1140
LB 7579		61.1	1.56	16.2	73.9	.44	15.2	68.1	$2\frac{3}{4}$	S	1110	1064
LB 7580 GB 2/48 I RC		57.8	1.78	15.9	72.8	.44	15.2	72.2	$2\frac{3}{4}$	S	1168	1118
LB 7581		60.7	1.57	13.8	74.6	.48	12.8	65.5	$4\frac{1}{4}$	S	1005	1127
LB 7582 Quale III		61.6	1.81 Q	14.2	74.3 4/	.51 Q	12.9	62.1	$5\frac{5}{8}$	S	1098	1228

1/ Chemical data expressed on a 14% moisture basis.

2/ S, Q, and U - Satisfactory, questionable, and unsatisfactory quality with respect to properties in question. A satisfactory rating is inferred in the absence of a designated one. One unsatisfactory rating, in general, characterized a variety as undesirable for hard wheat milling and breadmaking purposes. Crumb colors were satisfactory for all entries.

3/ Mixing time used in baking is evaluated in conjunction with other mixing properties obtained from the 10-g. mixogram.

4/ Softer than average hard wheat milling properties but entirely satisfactory.

5/ Promising overall quality characteristics.

6/ Particularly promising overall quality characteristics.

76-25

Research Center
Rural Route 2, Box 48
Scott City, Kansas 67871
(316) 872-2807

Marketing Offices:
35 Corporate Woods
9101 W. 110th Street
Overland Park, Kansas 66210
(913) 381-9630

SEED
RESEARCH

Seed Research, Route 2, Box 48, Scott City, Kansas, a division of Agrigenetics Corporation, and the survivor of the merger of Seed Research Associates, Inc. has for $20,000 and other considerations transferred ownership to Greenbush Seed and Supply, Route 4, Girard, Kansas of Plant Variety Protection certificate 7600050 issued for 4555 wheat variety which has the issue date of the 19th day of July, 1977. This transfer was made effective March 27, 1981.

4-15-81
Date

Kenneth L. Goertzen
Kenneth L. Goertzen, President
Seed Research

KANSAS
DAVID W. SUMMERS
STATE NOTARY PUBLIC
SCOTT COUNTY, KS.
My Appt. Exp. June 6, 1983

David W. Summers
Notary

P-76-25

No. 22 1982

Greenbush Seed & Supply Inc.
BUYERS, SELLERS, AND PROCESSORS OF FIELD SEEDS
RURAL ROUTE 4 • GIRARD, KANSAS 66743

November 22, 1982

Kenneth Evans, Commissioner
USDA, Agricultural Marketing Service
National Agricultural Library Bldg.
Beltsville, Maryland 20705
301-344-2518

Subject: Transfer of PVP Wheat Certificates - No. 7600025, 'GB 2148'
No. 7600050, '4555'

Dear Sir:

For good and valuable consideration, receipt of which is hereby acknowledged, Greenbush Seed & Supply, Inc. hereby transfers unto Robert J. Jacquinot & Steven M. Jacquinot ownership of Plant Variety Protection Certificate Number 7600025 issued for the wheat variety 'GB 2148' on the 16th day of March, 1978 and of Plant Variety Protection Certificate Number 7600050 issued for the wheat variety '4555' on the 19th day of July, 1977.

You are hereby instructed to issue a new certificate and a recording for each of the above named varieties, all of which are to reflect the new ownership as stated above, at a fee of $10.00 each and $5.00 each respectively.

A check in the amount of $30.00 payable to the U.S. Treasury was issued on the 14th day of September, 1982 for the services that are to be rendered.

The new certificates are to be forwarded to: Steven M. Jacquinot P.O. Box 342 St. Paul, Kansas 66771.

Greenbush Seed & Supply, Inc.
Steven M. Jacquinot Sec
Steven M. Jacquinot, Secretary

Dorothy Allison
Notary

NOTARY PUBLIC DOROTHY ALLISON My Appt. Exp 11-1-86

Nov 1, 1986
my commission expiration date

Enclosures: PVP Certificate No. 7600025 'GB 2148'
PVP Certificate No. 7600050 '4555'

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