

# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

## Seed Research Associates, 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 *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, OR 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. 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.)

WHEAT

'5466'

*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 August in  
the year of our Lord one thousand nine  
hundred and seventy-nine*

Attest:

*Samuel H. Lusk*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*W. B. Bly*  
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY  5466	1b. VARIETY NAME  5466 <i>as per letter 10/12/78</i>	FOR OFFICIAL USE ONLY	
		PV NUMBER  7700106	
2. KIND NAME  Hard Red Winter Wheat	3. GENUS AND SPECIES NAME  <u>Triticum aestivum</u>	FILING DATE  9-13-77	TIME  1:30 P.M.
4. FAMILY NAME (BOTANICAL)  Graminaeae	5. DATE OF DETERMINATION  July, 1972	FEE RECEIVED \$ 250.00	DATE 9-13-77
		\$ 250.00	9-13-77
		\$ 250.00	7-24-79
6. NAME OF APPLICANT(S)  Seed Research Associates, Inc.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)  Route 2, Box 48 Scott City, Kansas 67871	8. TELEPHONE AREA CODE AND NUMBER  316-872-2807	
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  Kansas	11. DATE OF INCORPORATION  June, 1973	

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

Kenneth L. Goertzen, President  
Seed Research Associates, Inc.  
Route 2, Box 48  
Scott City, Kansas 67871

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.

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? *3/25/80*  
 FOUNDATION  REGISTERED  CERTIFIED

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?  YES  NO

16. The applicant(s) declare(s) 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) 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.

9/23/77  
(DATE)

*Kenneth L. Goertzen*  
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

## INSTRUCTIONS

**GENERAL:** Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, 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 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 or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

## EXHIBIT A: Origin and Breeding History of 5466

SRAI 2380 (spring habit, semi dwarf, high protein line) was crossed with SRAI 2390 (winter habit, short semi dwarf, high protein line with brown chaff) No commonly grown bread wheats are involved in the parentage.

A single plant was selected from this cross in the  $F_4$  generation which was semi dwarf in stature, had 8 heads with 3 seeds set per spikelet. It was brown chaff with winter habit. Increase from this single plant selection produced 5466.

Different generations produce plants that have the same appearance and performance.

5466 meets stability and variability standards for hard red winter wheat varieties.

Breeders seed is maintained from a bulk of the  $F_4$  single plant selections. Roguing of the breeders seed is practiced to remove any possible variants that result from volunteer in plot, mechanical mixtures, outcrosses, or any other atypical plants.

Breeders seed is planted on ground that has been summer fallowed for at least one year.

Breeders seed is used to produce Foundation Seed using the same methods to maintain breeders seed but with less intense roguing.

Foundation seed is used to produce Certified Seed which is handled to meet the Crop Improvement Certification requirements.

Certification is being applied for in 1977.

D 10/17/78

"Variants to be allowed is 1 white head per 1000."

"Both SRI 2380 and SRI 2390 are selections from SRI program."

## EXHIBIT B: Novelty Statement for 5466

5466 compared to most similar variety 5422

	5466	5422
Season	early	early
Height	Semi dwarf	Semi dwarf
Chaff color	Brown	Brown
Genetically High Protein	Yes	Yes
Straw	More slender	Larger
Shattering	Resistance	Susceptible
Mixing Requirements	Longer than 5422	Shorter than 5466
Flag leaf	Held horizontal to about 30 degree angle	Held at about 45 degree angle with some having $1\frac{1}{4}$ rotation to the left.

Dosier

Seed Research Inc.  
Route 2, Box 48  
Scott City, Kansas 67871  
June 27, 1979

Kenneth Evans  
Acting Commissioner  
Plant Variety Protection  
USDA  
Agricultural Marketing Ser.-  
National Agricultural Library Bldg.  
Beltsville, Maryland, 20705

Dear Dr. Evans:

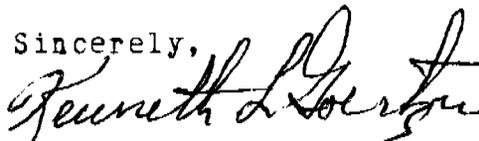
Subject: PVP No. 7700106, '5466' wheat

In establishing a difference between 5466 and 5422 one difference is ~~strong~~ strength and rigidity of the peduncle. 5422 is taller than 5466 at maturity. A part of this height is due to the upright head on 5422 and ~~nodding~~ head on 5466.

A picture is enclosed to illustrate this difference.

*inclined @ 7/10/79 as per telephone call*

Sincerely,



Kenneth L. Goertzen





## 11. HEAD:

2 Density: 1 = LAX 2 = DENSE *Mid*

4 Shape: 1 = PERING 2 = STRAP 3 = CLAVATE  
4 OTHER (Specify) *oblong*

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

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

0 8 CM. LENGTH  1 3 MM. WIDTH

## 12. GLUMES AT MATURITY:

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

1 1 Glabrous 2 Pubescent

7 Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED  
4 = SQUARE 5 = ELEVATED 6 = APICULATE  
*7 = oblique to elevated on same head*

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:

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

1 Check: 1 = ROUNDED 2 = ANGULAR

3 2 16/7/78  
Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

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 7 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  OTHER (Specify)

## 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:  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	5422	Seed size	5422
Leaf size	5422	Seed shape	5422
Leaf color	5422	Coleoptile elongation	
Leaf carriage		Seedling pigmentation	5422

## 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. Briggie 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.

## C. Botanical Characteristics of 5466

## Plant Characteristics:

1. Maturity: Early
2. Height: Semi Dwarf
3. Habit of Growth: Winter

## Stem Characteristics:

1. Color: Straw
2. Strength: Strong
3. Hollow straw

## Spike Characteristics:

1. Awns: Present, brown
2. Shape: oblong
3. Density: Mid dense
4. Position: ~~Erect~~ <sup>inclined</sup> 2/11/79
5. Shattering: Resistance to shattering

## Glume Characteristics:

1. Color: Brown
2. Length - Long
3. Width: Wide
4. Shoulder <sup>oblique</sup> ~~square~~ to elevated with acuminate beak

## Kernel Characteristics:

1. Color: Red
2. Length: 7 mm.
3. Width: 3 mm.
4. Gm per 1000 seeds: 30
5. Germ: medium
6. Texture: hard
7. Shape: ovate
8. Crease: narrow, mid deep with rounded cheek
9. Brush: long, not collared

C. Cont'd

Quality Characteristics:

Genetically high protein strong gluten

The mixing time of 5466 is longer than that of  
the most similar variety 5422

EXHIBIT D: Additional Description of the Variety 5466

5466 has been tested primarily in Kansas and is adapted to that state.

5466 is a strong gluten genetically high protein wheat that will be used primarily for blending with weaker lower protein wheat.

Some of the prominent characteristics of 5466 is its early maturity, semi dwarf stature, brown chaff, straw that is strong but more slender than 5422

At maturity 5466 hold its flag leaf horizontal to about 30 degree angle.

# 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/				Bread-baking Data 2/						
		Wt. Per Bu. lbs.	Ash %	Protein %	Flour Yield %	Flour 2/ Ash %	Protein %	Ab-sorp-tion %	Mix-ing Time 3/ min.	Crumb Grain	As Rec'd cc.	Loaf Volume Cor-rect-ed To cc.
GROUP 1	13546	63.4	1.61	12.6	73.7	.44	11.9	65.5	3 3/4	S	913	14.5% P 1091
Scout		57.1	1.75	15.9	71.2	.46	14.9	70.4	4 1/4	S	1182	1152 5/
LB 7514		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	5466	61.9	1.61	17.9	76.3	.46	17.2	71.4	10 1/2 U	S	1271	1086
LB 7519	5422	62.0	1.51	16.5	76.5	.43	16.0	70.7	8 3/4 Q	S	1213	1108
LB 7520	Dual 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 3/4	S	1010	1056
GROUP 2	13546	63.4	1.65	12.5	70.0	.43	11.4	66.4	3 3/4	S	920	1146
Scout		61.5	1.64	15.9	73.0	.43	14.5	67.2	3	S	1102	1102
LB 7567		61.0	1.60	15.8	73.9	.43	14.6	69.7	3 3/4	S	1105	1090 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 3/4	S	1058	1107
LB 7571	Dual I	59.6	1.83 Q	14.2	73.2 4/	.49 Q	13.0	62.2	7 1/2 Q	S	1100	1220
LB 7572		60.6	1.56	16.4	73.6	.43	15.2	69.4	5 3/4	S	1170	1120 6/
LB 7573	4555	62.7	1.59	13.8	73.9	.43	12.6	65.4	5 3/8	S	977	1111
LB 7574		60.8	1.65	16.4	74.0	.44	15.1	70.6	3 3/8	S	1125	1084 5/

2  
42

7700106

Irrigated yield plot  
 Scott City, Kansas - 1975  
 3 waterings

7700106

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	—
5232	74.5	82	-1	0%	5	14.45
III	69	78	-1	0%	5	—
5210	67	82	-3	0%	5	15.68
5221	71	83	-1	0%	5	15.02
2148	66	69	+4	0%	5	—
5411	69.8	85	-4	0%	5	18.12
Plainsman V	72.5	78	-5	0%	5	17.0
5466	66.7	78	-4	0%	5	17.55
5422	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	12

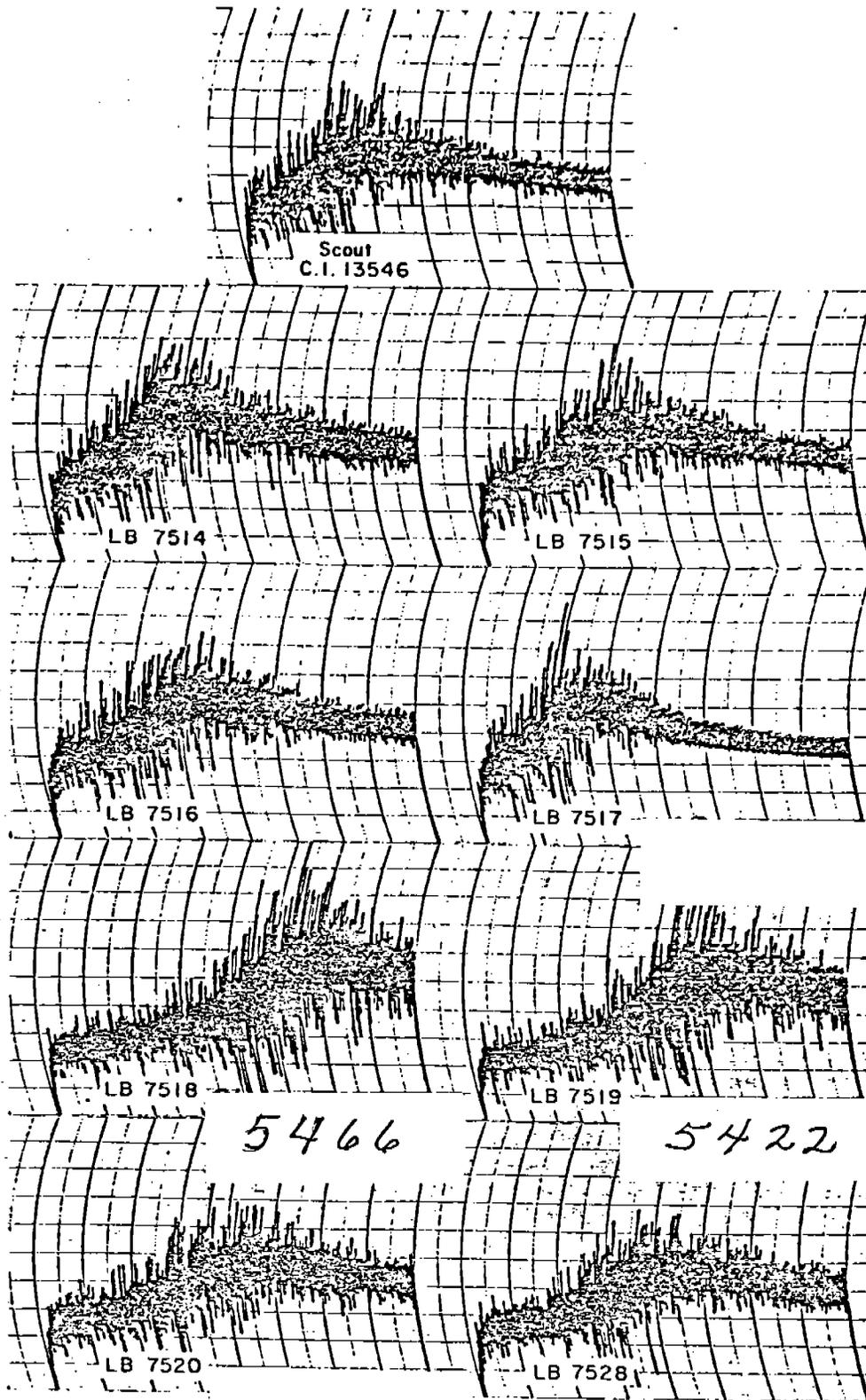
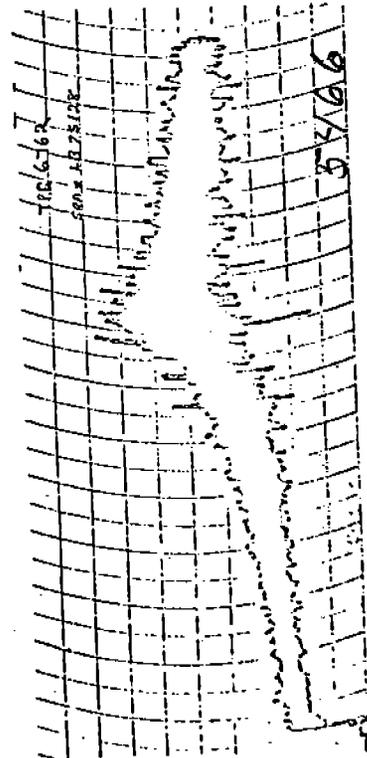
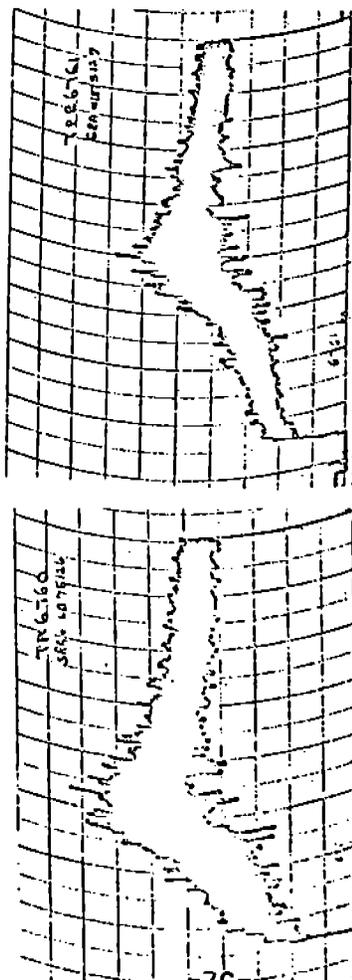
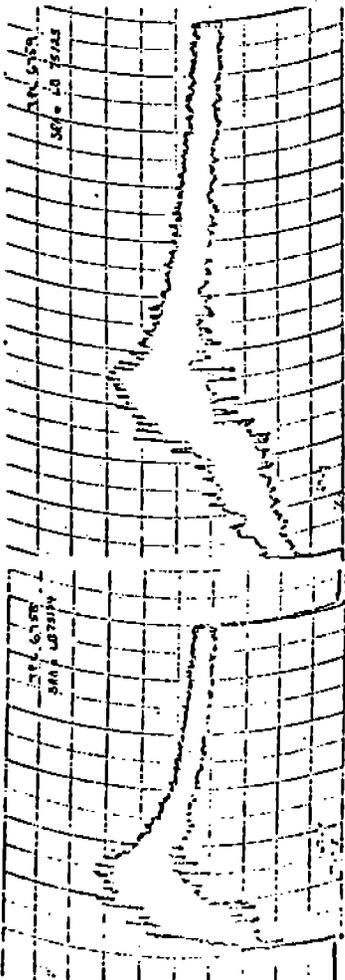
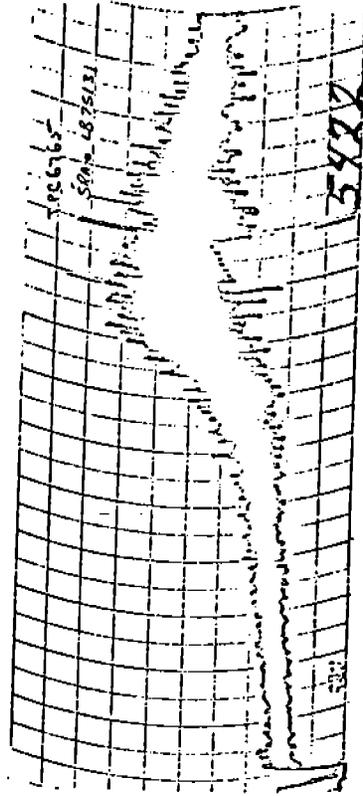
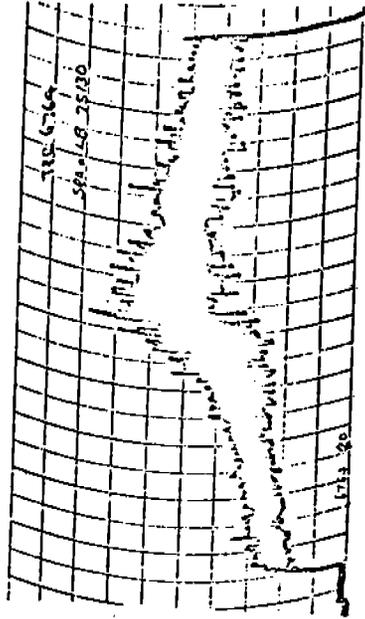
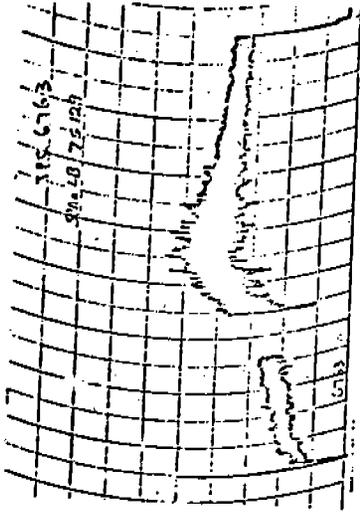
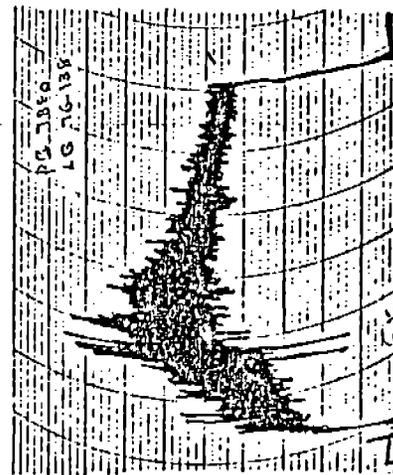
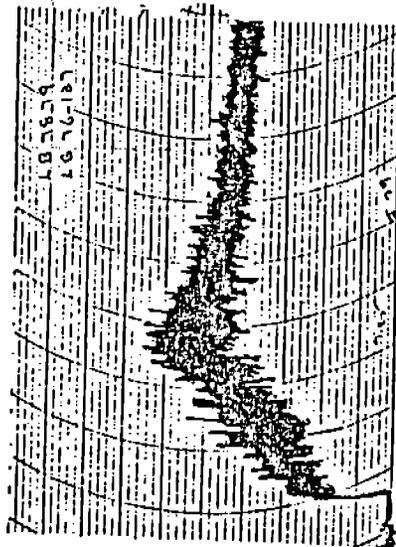
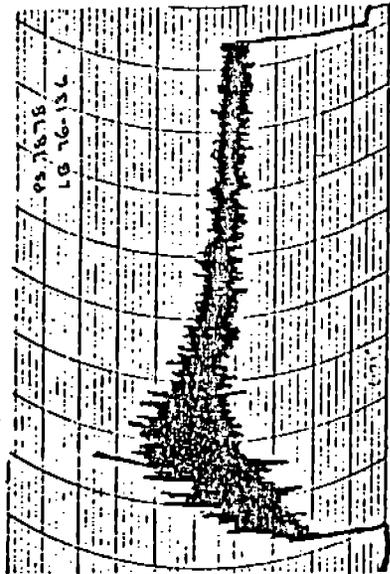
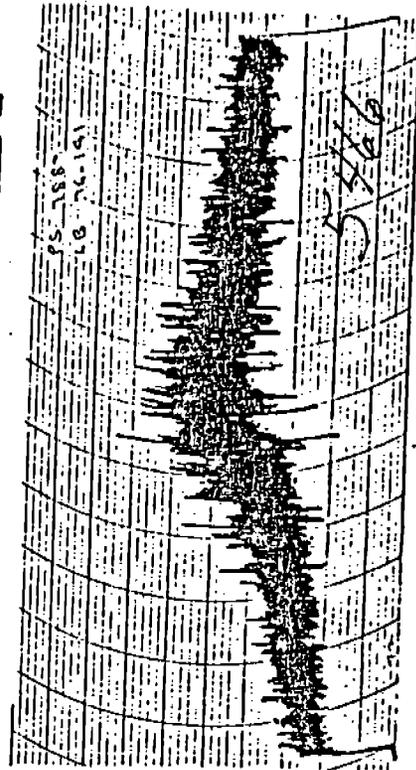
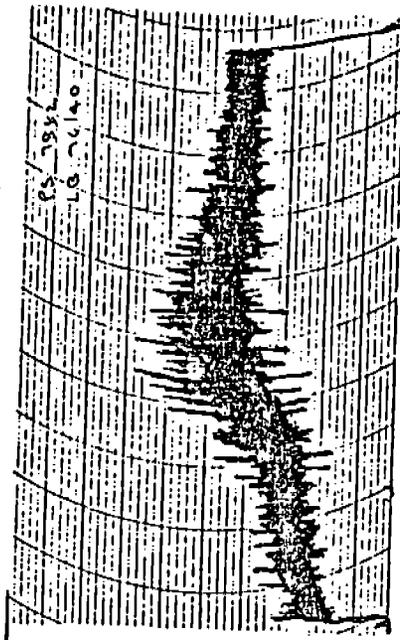
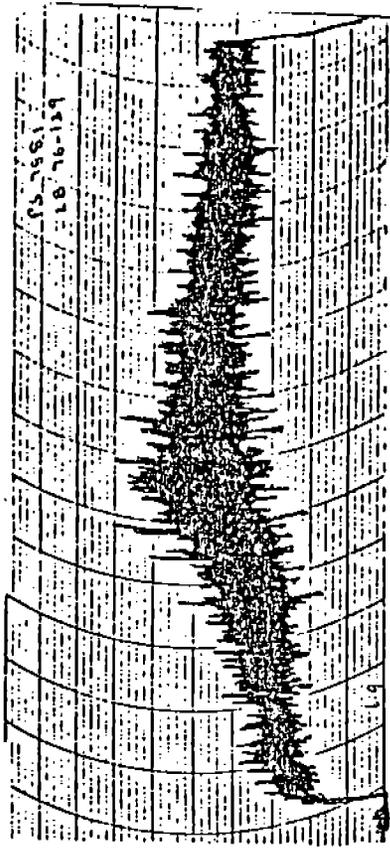


Fig. 1. Mixograms (10-g.) for genetically high-protein special plant breeders' samples of hard winter wheat progenies harvested in Scott County, Kansas in 1974.

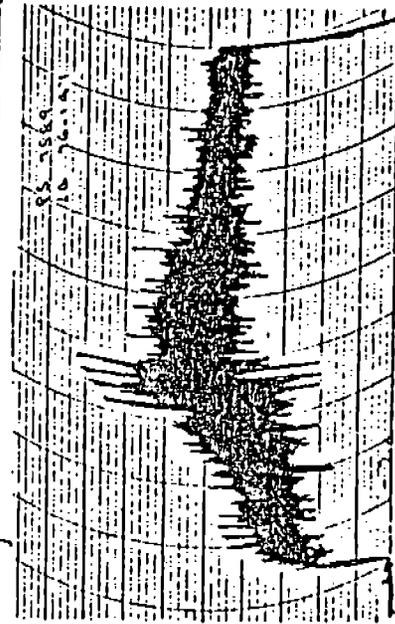
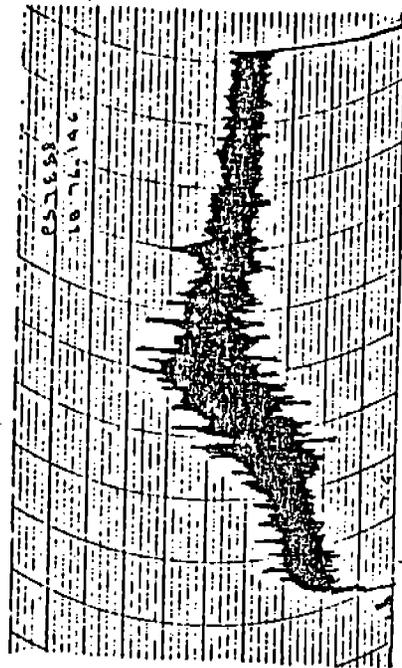
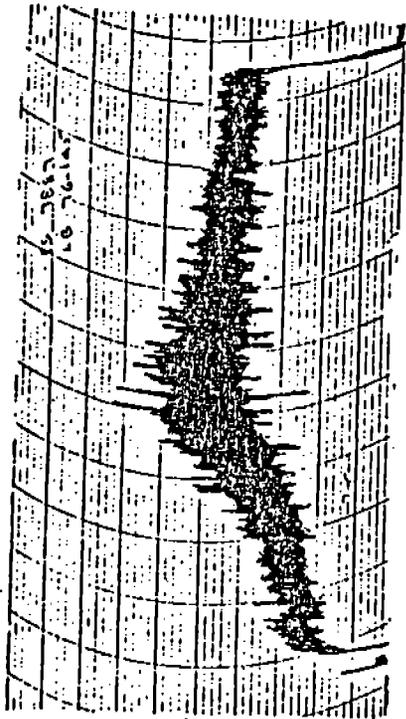
*Karl Finney Data*  
1974



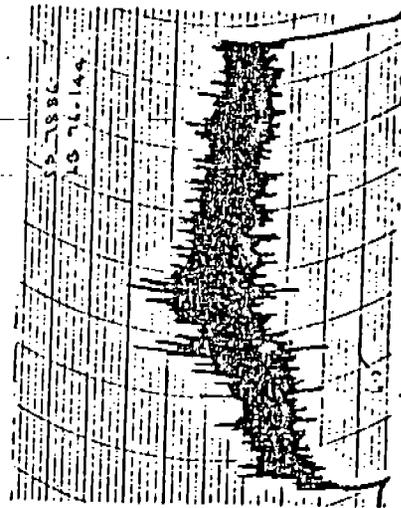
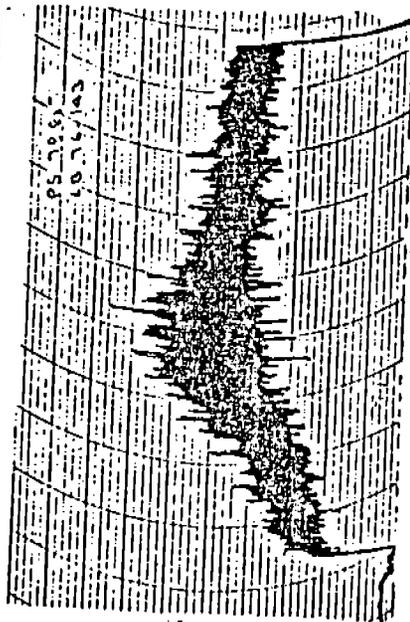
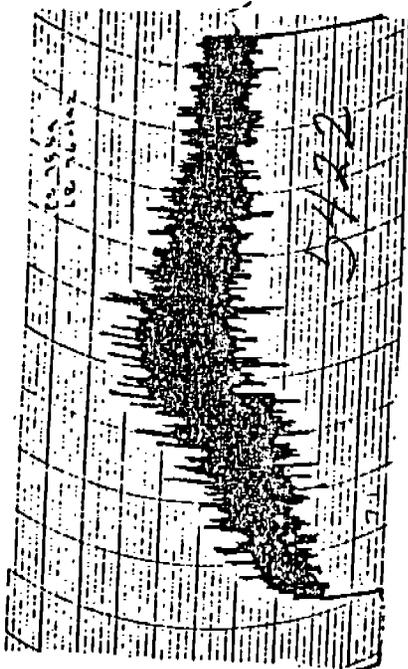
Pillsbury Data  
1975



Pittsboro data  
1976



*Hillsbury Data  
1976*



## 74 - 75 HIGH PROT WHEATS GLUTEN FUNCTIONALITY

(15% CONSTANT PROTEIN BASIS)

PS	SRA	Mix Time	Loaf Volume	Volume/gram of Protein
6758	LB75124	3.40	1230	55.33
6759	LB75125	3.30	1200	53.33
6760	LB75126	3.30	1100	46.67
6761	LB75127	4.20	1150	50.00
6762	<i>5466</i> LB75128	6.30	1205	53.67
6763	LB75129	5.00	1080	45.33
6764	<i>5422</i> LB75130	5.20	1285	59.00
6765	LB75131	7.30	1250	56.67
6766	LB75132	7.15	1150	50.00
6767	LB75133	5.30	1300	60.00
6768	LB75134	3.40	1280	58.67
6769	LB75135	7.15	1050	43.33
6770	LB75136	5.15	1150	50.00
6771	LB75137	5.00	1250	56.67
6772	LB75138	4.35	1150	50.00
6773	LB75139	4.25	1150	50.00
6774	LB75140	4.45	1100	46.67
6775	LB75143	4.40	1190	52.67
6776	LB75144	6.00	1310	60.67
6777	LB75145	2.25	1150	50.00
6778	LB75146	5.25	1130	48.67
6828	LB75142	4.15	1235	55.67
Spring	Control	4.30	1010	40.57
"	Control	7.00	1145	49.67
"	Control	5.05	1140	49.33

PS	SRA	ANALYTICAL DATA							MILLING DATA		
		% MST	Prot as is	Prot NFB	% FAT Skelly	Test weight	1000 kernel weight	% Flour	% Bran and short		
6758	LB75124 ✓	11.4	19.63	22.16	1.23	54.4	33.1	64.1	35.94		
6759	LB75125 ✓	10.8	19.35	21.69	1.27	58.0	34.6	65.7	33.33		
6760	LB75126 ✓	10.9	20.55	23.06	1.48	55.1	30.4	63.8	36.22		
6761	LB75127 ✓	11.2	16.99	19.13	1.44	59.0	39.3	69.1	30.93		
6762	LB75128 ✓	11.5	17.55	19.83	1.27	57.9	30.9	70.0	29.97		
6763	LB75129 ✓	11.5	15.90	17.97	1.38	61.8	32.0	68.7	31.27		
6764	LB75130 ✓	10.9	16.92	18.99	1.56	61.5	30.9	67.0	33.03		
6765	LB75131 ✓	11.2	16.66	18.76	1.30	62.0	33.1	68.0	32.05		
6766	LB75132 ✓	11.2	16.96	19.10	1.05	61.2	33.0	66.4	33.62		
6767	LB75133 ✓	10.9	15.68	17.60	1.34	60.3	33.8	63.6	36.35		
6768	LB75134 ✓	10.6	15.97	17.86	1.27	59.4	33.3	66.2	33.94		
6769	LB75135 ✓	11.1	15.52	17.46	1.22	58.7	30.6	72.0	27.97		
6770	LB75136 ✓	11.2	12.83	14.45	1.17	62.3	38.6	68.4	31.61		
6771	LB75137 ✓	11.2	14.45	16.27	1.30	60.8	36.3	65.0	35.02		
6772	LB75138 ✓	11.8	16.38	18.57	1.13	60.2	34.4	66.7	33.27		
6773	LB75139 ✓	11.7	15.78	17.87	1.04	60.3	32.9	67.4	32.59		
6774	LB75140 ✓	11.6	15.68	17.74	0.68	62.2	32.4	64.5	35.50		
6775	LB75143 ✓	10.1	15.97	17.76	0.59	59.0	32.5	68.2	31.80		
6776	LB75144 ✓	11.2	15.02	16.91	0.51	60.2	33.8	71.3	23.69		
6777	LB75145 ✓	10.8	20.55	23.30	0.85	54.0	34.3	66.5	34.46		
6778	LB75146 ✓	10.9	18.12	20.34	0.83	61.9	32.3	67.6	32.37		
6779	Control	10.7	15.55	17.41	1.35	59.9	26.1	68.2	31.62		
6828	LB75142 ✓	10.5	16.51	18.45	1.22	60.5	30.2	68.0	32.00		

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February 14, 1997

Marian R. Minnifield, Secretary  
Plant Variety Protection Office  
NAL Building, Room 500  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351

Subject: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number	PVP Number	
101862	01	PVP 7800029
102219	01	PVP 7800010
102675	01	PVP 7800088
102676	01	PVP 7400011
103506	01	PVP 7800084
103507	01	PVP 7900016
103508	01	PVP 7800082
103840	01	PVP 7900017
103842	01	PVP 7900067
104549	01	PVP 7700106
104551	01	PVP 7100046
314988	01	PVP 9500276
101863	01	PVP 7800026
102222	01	PVP 7800078
102226	01	PVP 7800091
101854	01	PVP 7200134
102214	01	PVP 7605014
102216	01	PVP 7900011
102217	01	PVP 7800095
102218	01	PVP 7800093
102220	01	PVP 7800097
102221	01	PVP 7800042

✓ Wheat

97 FEB 25 10 15 AM  
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102673	01	PVP 7800059
103502	01	PVP 7800096
103503	01	PVP 7800074
103509	01	PVP 7900044
103510	01	PVP 7900047
103838	01	PVP 7500042
103843	01	PVP 7300101
101859	01	PVP 7200132
102227	01	PVP 7700085
103511	02	PVP 7800028
103839	01	PVP 7900049
103845	01	PVP 7900048
104548	02	PVP 7800057
104550	01	PVP 7800024

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Sincerely,

GENE KEYS  
Data Coordinator