No. 200200274

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

University of Arkansas Agricultural Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED 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 TWENTY 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 CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , 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 A [illegible] OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF [illegible]TS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Pat'

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 twenty ninth day of April, in the year two thousand three.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. ***Include form number and date on all reproductions***

Form Approved - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

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 OWNER: University of Arkansas Agricultural Experiment Station

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME: AR 839-27-1-3

3. VARIETY NAME: Pat

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
AFLS Building, Room 219
Fayetteville, AR 72701

5. TELEPHONE *(include area code)*: 479/575-4750

6. FAX *(include area code)*: 479/575-2410

FOR OFFICIAL USE ONLY

PVPO NUMBER: 200200274

FILING DATE: 9/27/2002

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*

8. IF INCORPORATED, GIVE STATE OF INCORPORATION

9. DATE OF INCORPORATION

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*

Robert Bacon
Crop, Soil, and Environmental Sciences
115 Plant Science Building
University of Arkansas
Fayetteville, AR 72701

FEES RECEIVED

FILING AND EXAMINATION FEES: $ 2705.00 DATE 9/27/2002

CERTIFICATION FEE: $ 320.00 DATE 2/7/03

11. TELEPHONE *(Include area code)*: 479/575-5725

12. FAX *(Include area code)*: 479/575-7465

13. E-MAIL: rbacon@uark.edu

14. CROP KIND *(Common Name)*: Wheat, common

15. GENUS AND SPECIES NAME OF CROP: Triticum aestivum

16. FAMILY NAME *(Botanical)*: Gramineae

17. IS THE VARIETY A FIRST GENERATION HYBRID? ☐ YES ☒ NO

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

- a. ☒ Exhibit A. Origin and Breeding History of the Variety
- b. ☒ Exhibit B. Statement of Distinctness
- c. ☒ Exhibit C. Objective Description of Variety
- d. ☐ Exhibit D. Additional Description of the Variety *(Optional)*
- e. ☒ Exhibit E. Statement of the Basis of the Owner's Ownership
- f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
- g. ☒ Filing and Examination Fee ($2,705), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *See Section 83(e) of the Plant Variety Protection Act)*
☒ YES *(If "yes", answer items 20 and 21 below)* ☐ NO *(If "no", go to item 22)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? ☐ YES ☐ NO
IF YES, WHICH CLASSES? ☒ FOUNDATION ☐ REGISTERED ☒ CERTIFIED

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☐ NO
IF YES, SPECIFY THE NUMBER 1,2,3, *etc.* [1] FOUNDATION [ ] REGISTERED [1] CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☒ YES ☐ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☒ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

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

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

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
NAME *(Please print or type)* Greg Weidemann		NAME *(Please print or type)*	
CAPACITY OR TITLE Dean & Associate Vice President for Research	DATE 9/17/02	CAPACITY OR TITLE	DATE

INSTRUCTIONS

200200274

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable *(in the sense that it will reproduce an entire plant)* tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for $2,705 ($320 filing fee and $2,385 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of $320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. 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) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified

18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety 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 are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, *etc.*

18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.

19. 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 this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. *(See Regulations and Rules of Practice, Section 97.103).*

22. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

23. *See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.*

21. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

22. CONTINUED FROM FRONT *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

Date of first sale (USA) - October 1, 2001

23. CONTINUED FROM FRONT *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. *(See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)*

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours 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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfect 9.0. Replaces STD-470 (04-01) which is obsolete.

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18a. Exhibit A: Origin and Breeding History of the Variety

Pedigree: Terral 101/Pioneer 2548

Pat was derived from a F_1 population received from Dr. Stephen Harrison at Louisiana State University in a germplasm exchange program in 1991. The cross of Terral 101/Pioneer 2548 was made in 1990. Pat originated from an F_5 selection. The population was grown as a bulk in the F_2 and F_3 generations at Stuttgart, Arkansas to allow natural selection for adaptation, particularly for wet soil conditions. Single head selections were made in the F_4 and the F_5 generations based on plant height, maturity date, plant type and disease reaction. Disease reaction was based primarily on leaf rust (caused by Puccinia triticina Eriks.) and Septoria leaf blotch (caused by Septoria tritici Roberge in Desmaz.) The resulting experimental line was designated as AR 839-27-1-3. During the F_6 generation it was selected for resistance to a complex of soilborne wheat mosaic (SBWMV) and wheat spindle streak mosaic (WSSMV). During subsequent generations it was selected based primarily on test weight and grain yield under Arkansas conditions.

Pat was tested in the Arkansas Small-Grain Cultivar Performance Trials in 2000, 2001 and 2002 and in the USDA-ARS Uniform Southern and Uniform Eastern Soft Red Winter Wheat regional trials in 2001. Pat has appeared stable and uniform for seven generations. Variants may include awnless plants ($\leq$0.1%) or tall plants ($\leq$0.5%).

18b. Exhibit B: Statement of Distinctness

Pat is most similar to 'AgriPro Shelby' in appearance. Both are approximately 91 cm tall and have a plant color of 147A in the yellow-green group (as referenced by the Royal Horticultural Society Color Chart). Pat has slightly narrower (3 mm) flag leaves than AgriPro Shelby and heads approximately 5 d later in Arkansas. The difference in heading date is shown by a significant difference according to the LSD test at the 0.05 probability level in 8 of 9 tests of the 2001-2002 Arkansas Small-Grain Cultivar Performance Tests (report is included, see pages 6-32). At maturity, Pat has spikes which are awned, mid-dense, fusiform and nodding at maturity. The white glumes are glabrous, short (9 mm) and midwide with narrow, oblique shoulders and narrow, accuminate beaks. Kernels are red, short to midlong and ovate, with a small germ; the kernel brush is midsized and midlong; the kernel crease is narrow in width and is mid-deep with rounded cheeks. Kernels on average are 6.3 mm long and 3.0mm wide with a kernel weight of 32 mg.

Heading Date Summary Table:

Table #	'Pat' heading date:	'Shelby' heading date:	Difference
2	4-28	4-23	+5
3	4-28	4-22	+6
4	4-29	4-26	+3
5	4-22	4-16	+6
6	4-22	4-17	+5
7	4-21	4-15	+6
8	4-21	4-15	+6
9	4-16	4-15	+1
10	4-20	4-14	+6
Ave			4.89

STANDARD INPUT WHEAT TEST
NORTHEAST RESEARCH AND EXTENSION CENTER, KEISER, AR

SOIL SERIES....Sharkey silty clay
PREVIOUS CROP....Soybean
PLANTING DATE....October 24, 2001
FERTILIZER....100 lb/A N on February 28, 2002; 75 lb/A N on March 21, 2002
HERBICIDE....None
FUNGICIDE....None
INSECTICIDE....None
HARVEST DATE....June 20, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	8.6	6.5	9.0	4.2	3.3	9.8	0.1	5.7	47.2
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	+6.2	+2.4	+4.3	+0.8	+0.3	+5.0	-5.0	+0.4	+14.4

Table 2. Performance of Wheat Cultivars in Standard Performance Test, Keiser.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			-----bu/A-----	
DELTA KING 9410	88.8	54.5	0	33	4-23	5-29		
DIXIE X9611	77.8	51.0	0	32	4-27	5-28		
TERRAL TVX81466	77.2	55.5	1	29	4-25	5-28		
PIONEER XW00B	75.1	54.8	0	31	4-25	5-28		
DIXIE X9512	73.8	56.8	1	35	4-22	5-27		
USG 3209	72.2	53.8	1	26	4-22	5-30	64.1	73.6
TERRAL TV8565	70.8	54.8	0	34	4-24	5-27		
AGRIPRO SAVAGE	70.4	55.3	0	31	4-26	5-28		
DELTA KING 7777	70.1	56.5	1	33	4-25	5-28	66.5	
PIONEER BRAND 26R24	70.0	54.8	1	31	4-23	5-27	63.0	72.4
PIONEER BRAND 26R38	70.0	55.5	0	30	4-22	5-28	67.9	78.2
ROANE	69.7	54.5	0	30	4-27	5-30	58.3	66.7
AGRIPRO SHELBY	69.5	55.3	1	30	4-23	5-27	58.1	64.6
USG 3709	68.5	54.5	0	32	4-25	5-29	64.2	74.5
AGS 2000	68.2	57.5	0	31	4-21	5-28	63.8	76.5
SOUTH. STATES SS 535	68.1	56.3	0	28	4-24	5-27	60.2	70.7
PROGENY 188	68.0	54.0	0	30	4-25	5-29		
LA 90185G3-1-3-4-2	67.8	51.8	2	31	4-22	5-29	58.5	
SOUTH. STATES SS524	67.7	55.8	0	30	4-22	5-30		
DIXIE 922	67.5	54.3	1	33	4-24	5-27	59.9	70.2
NK COKER 9543	67.4	54.0	1	30	4-23	5-28	62.6	68.1
UGA 92485E15	67.2	54.5	0	30	4-22	5-27		
CROPLAN GENET. 554W	67.1	56.5	0	30	4-23	5-29	62.0	
TERRAL TV8450	67.0	55.3	0	33	4-23	5-28		
AGRIPRO D97-6075-1	66.9	55.8	0	29	4-25	5-28		
DELTA KING 9121	66.6	52.5	0	30	4-26	5-31	69.3	74.3
TERRAL LA422	66.2	53.3	2	30	4-23	5-29		
PROGENY 156	66.0	54.7	1	34	4-25	5-28	61.5	69.8
SISSON	65.8	56.0	1	31	4-23	5-29		
USG 3650	65.8	54.5	1	31	4-25	5-29		
DIXIE X9412	65.7	53.5	1	34	4-23	5-27		
DELTA GROW 4200	65.0	52.5	1	34	4-24	5-27		

Table 2. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			-----bu/A-----	
FFR 510	64.9	54.5	2	30	4-21	5-27	62.5	71.3
DELTA GROW 5300	64.8	54.0	1	32	4-26	5-27	63.2	
DELTA KING 9333	64.7	55.8	0	34	4-25	5-29	64.6	
AR 910-9-1	64.7	54.5	1	32	4-22	5-27		
GENESIS R023	64.7	55.5	1	34	4-23	5-27		
PROGENY 145	64.6	54.7	1	34	4-23	5-27		
SOUTH. STATES SS520	64.3	55.0	2	31	4-21	5-26		
McCORMICK	64.2	55.0	0	29	4-25	5-29		
DELTA KING 1551W	64.2	54.0	0	29	4-26	5-29	64.5	69.7
DIXIE X9312	64.1	52.5	1	34	4-24	5-28		
AR 839-25-8-2	64.0	53.5	0	30	4-25	5-29	63.9	
SABBE	63.8	52.8	0	30	4-26	5-30	55.2	65.3
FFR 521	63.5	54.0	0	31	4-22	5-29		
PROGENY 133	63.4	54.7	0	33	4-23	5-28		
CROPLAN GENET. 517W	63.4	53.0	1	29	4-22	5-30		
DELTA KING 7900	63.4	53.8	1	33	4-23	5-27	61.2	
DIXIE 900	63.0	55.7	0	34	4-24	5-27	61.8	70.9
AR 839-28-1-2	62.9	53.3	0	31	4-25	5-31	62.3	
VA98W-593	62.8	56.5	0	27	4-24	5-30	61.7	
DELTA KING 9216	62.1	55.5	1	32	4-26	5-27	65.3	
DELTA KING 9027	62.0	54.0	0	33	4-25	5-29	58.6	66.5
ARMOR X5222	61.8	55.7	0	34	4-24	5-27		
PIONEER BRAND 26R46	61.7	55.8	1	30	4-21	5-26	59.0	
AGRIPRO PATTON	61.4	52.8	0	31	4-24	5-29	63.3	69.9
ARMOR 3235	61.2	55.8	1	33	4-24	5-26	55.7	64.9
UGA 90552AE33	61.1	57.5	0	29	4-22	5-28		
AR 850-1-1	61.1	54.8	0	31	4-24	5-28		
LA 94242D4-4	61.0	53.0	0	30	4-23	5-29		
ARMOR X5333	60.9	54.5	1	32	4-24	5-28		
PROGENY 103	60.9	51.3	1	31	4-25	5-28	58.3	63.2
F 334W	60.8	54.5	0	34	4-27	5-29	60.2	
FFR 522	60.7	55.5	1	29	4-22	5-28	57.4	
LA 90518PB43-3-1-4	60.7	54.0	1	27	4-22	5-27	60.7	
SOUTH. STATES SS 522	60.5	56.7	1	30	4-23	5-27	60.1	67.3
HBK 3030	60.2	54.3	0	29	4-23	5-27	59.9	
DELTA GROW 7100	60.1	53.5	1	30	4-25	5-28		
AR 910-9-2	60.1	54.0	1	32	4-22	5-27		
ARMOR 2025	60.0	55.0	1	33	4-23	5-28	58.6	69.6
NK COKER 9663	59.5	54.3	2	31	4-23	5-27	51.0	64.2
PROGENY 118	59.3	52.3	1	31	4-25	5-28		
HBK X3006	59.3	52.8	1	29	4-25	5-27		
ARMOR 4045	59.3	53.8	1	33	4-24	5-27	55.6	64.3
DIXIE X9212	59.2	51.3	2	35	4-22	5-27		
NK COKER 9152	59.1	54.3	0	33	4-22	5-28	54.3	
FFR 556	59.0	55.5	1	30	4-24	5-29		
PIONEER 2552	58.7	51.0	0	30	4-26	5-30		
AR LA85411	58.2	49.5	0	29	4-23	5-29	55.6	67.4
ARMOR 3035	58.2	53.3	0	33	4-24	5-27	58.1	69.0
DELTA GROW 4888	58.0	55.3	0	33	4-23	5-27	61.1	62.3
TERRAL TV 8555	57.1	54.8	0	27	4-25	5-29	51.3	64.6
PROGENY 166	56.9	52.3	0	35	4-24	5-27		

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Table 2. (continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			-----bu/A-----	
DIXIE X9112	56.6	53.0	2	33	4-21	5-26		
HBK X3004	56.6	54.8	0	33	4-24	5-28		
LA 9389C37-1	55.6	53.3	0	28	4-23	5-31		
PAT	55.5	53.8	0	31	4-28	5-31	57.2	64.4
GENESIS R024	55.0	55.5	0	29	4-25	5-29		
SOUTH. STATES SS 518	54.7	53.3	15	28	4-21	5-27	56.2	66.7
AGRIPRO NATCHEZ	54.4	54.7	2	34	4-24	5-26	51.1	62.9
ARMOR X5212	52.8	51.8	1	31	4-25	5-30		
LA 94242D4-2	48.9	53.3	0	30	4-24	5-30		
Grand mean	63.6	54.3	1	31	4-24	5-28	60.2	68.5
LSD (5%)	10.6	3.2		2	1	2	10.5	10.4
C.V. (%)	12.0	4.3		6	2	1	10.6	10.8

Ldg = Lodging Pt ht = Plant height

200200274

HIGH INPUT WHEAT TEST
NORTHEAST RESEARCH AND EXTENSION CENTER, KEISER, AR

SOIL SERIES....Sharkey silty clay
PREVIOUS CROP....Soybean
PLANTING DATE....October 24, 2001
FERTILIZER....100 lb/A N on February 28, 2002; 75 lb/A N on March 21, 2002
HERBICIDE....None
FUNGICIDE....4 oz/A Tilt on April 17, 2002
INSECTICIDE....None
HARVEST DATE....June 24, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	8.6	6.5	9.0	4.2	3.3	9.8	0.1	5.7	47.2
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	+6.2	+2.4	+4.3	+0.8	+0.3	+5.0	-5.0	+0.4	+14.4

Table 3. Performance of Wheat Cultivars in High Input Performance Test, Keiser.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			----bu/A----	
AGS 2000	77.1	58.0	31	4-21	5-28	70.2	83.6
CROPLAN GENET. 554W	74.9	56.5	30	4-24	5-30	65.7	
DELTA KING 7777	74.0	56.8	32	4-26	5-28	73.4	
USG 3709	73.4	55.5	34	4-25	5-28	71.8	82.9
USG 3209	72.9	56.5	27	4-23	5-28	65.7	78.7
PIONEER BRAND 26R24	72.7	56.8	30	4-23	5-28	64.6	76.5
FFR 556	71.6	56.5	30	4-23	5-29		
DELTA KING 9410	70.7	55.3	34	4-24	5-27		
DELTA GROW 4200	70.4	55.0	35	4-24	5-27		
DELTA KING 7900	70.3	55.5	36	4-23	5-26	63.2	
PROGENY 166	70.3	55.3	34	4-24	5-26		
PIONEER XW00B	69.2	55.3	29	4-24	5-28		
GENESIS R023	69.0	55.8	34	4-23	5-26		
DELTA KING 9027	68.9	56.0	34	4-25	5-31	65.5	77.9
SOUTH. STATES SS524	68.4	55.5	31	4-22	5-30		
ARMOR 2025	68.4	56.0	35	4-23	5-27	62.3	75.8
DIXIE X9212	68.3	55.5	33	4-23	5-26		
AGRIPRO SHELBY	67.7	58.3	31	4-22	5-27	63.8	73.3
AGRIPRO D97-6075-1	67.5	57.3	30	4-25	5-27		
VA98W-593	67.0	58.0	28	4-25	5-31	65.4	
AGRIPRO SAVAGE	66.7	57.5	30	4-26	5-27		
ROANE	66.6	57.3	29	4-27	5-30	60.5	73.1
DIXIE X9512	66.4	56.0	34	4-23	5-27		
SISSON	66.4	56.3	31	4-23	5-27		
ARMOR X5333	66.1	56.3	34	4-23	5-27		
DIXIE 900	65.7	55.8	33	4-23	5-27	63.3	
PIONEER BRAND 26R38	65.6	55.8	32	4-22	5-28	68.3	78.5
ARMOR X5222	65.5	56.0	34	4-24	5-27		
SABBE	65.5	53.0	30	4-26	5-30	62.9	73.2
USG 3650	65.4	56.3	29	4-25	5-28		
DIXIE X9312	65.2	55.8	35	4-25	5-27		
UGA 92485E15	65.2	58.8	29	4-22	5-26		

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Table 3. (continued).

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			----bu/A----	
DELTA GROW 4888	65.1	55.5	34	4-24	5-27	62.0	64.7
NK COKER 9663	65.1	56.8	30	4-23	5-26	64.8	76.1
DIXIE X9412	65.0	56.3	34	4-24	5-26		
McCORMICK	64.8	57.5	29	4-25	5-30		
HBK 3030	64.8	55.3	32	4-23	5-27	62.5	
TERRAL TV8565	64.6	56.0	35	4-24	5-27		
PROGENY 133	64.6	54.5	34	4-24	5-27		
FFR 522	64.5	57.5	30	4-23	5-28	61.9	
DELTA GROW 5300	64.3	54.7	31	4-25	5-27	61.9	
DIXIE 922	64.1	56.3	35	4-24	5-27	59.8	74.9
AR 850-1-1	64.1	57.8	30	4-25	5-28		
CROPLAN GENET. 517W	64.0	54.8	31	4-22	5-29		
DELTA KING 9216	63.9	54.8	34	4-25	5-26	68.1	
AR 839-28-1-2	63.8	56.3	31	4-27	5-29	62.4	
AR 910-9-2	63.8	54.3	32	4-21	5-26		
HBK X3004	63.5	56.0	35	4-24	5-27		
AGRIPRO PATTON	63.3	55.3	32	4-24	5-29	61.8	73.1
DIXIE X9611	63.2	54.8	34	4-27	5-29		
PIONEER 2552	63.2	57.0	31	4-26	5-29		
PROGENY 103	63.1	54.8	31	4-26	5-27	60.6	69.7
GENESIS R024	63.0	56.3	29	4-25	5-27		
TERRAL TV8450	62.9	56.5	32	4-23	5-27		
ARMOR 3235	62.8	56.5	33	4-26	5-26	58.8	68.8
SOUTH. STATES SS520	62.8	57.0	32	4-21	5-26		
ARMOR 3035	62.6	55.5	33	4-24	5-27	63.9	73.6
DELTA KING 1551W	62.6	55.3	29	4-27	5-28	65.6	74.3
SOUTH. STATES SS 535	62.5	57.0	30	4-25	5-27	60.4	70.2
FFR 510	62.4	56.8	32	4-21	5-25	57.7	71.8
TERRAL TVX81466	62.2	56.3	30	4-25	5-28		
PROGENY 118	62.1	56.8	33	4-26	5-29		
AR 839-25-8-2	62.1	55.3	30	4-27	5-28	63.9	
PAT	62.0	55.8	31	4-28	5-30	65.6	74.3
FFR 521	61.5	55.3	30	4-22	5-29		
DELTA KING 9333	61.5	56.3	34	4-26	5-29	61.9	
DELTA KING 9121	61.5	53.0	31	4-26	5-31	67.0	75.2
SOUTH. STATES SS 522	61.4	57.5	30	4-23	5-27	59.7	72.5
TERRAL LA422	61.3	57.0	30	4-24	5-27		
ARMOR 4045	61.3	55.8	33	4-24	5-27	58.7	72.5
UGA 90552AE33	61.2	57.0	30	4-22	5-26		
PROGENY 145	60.9	56.3	35	4-23	5-28		
HBK X3006	60.7	55.5	30	4-25	5-28		
AR LA85411	60.1	55.5	30	4-24	5-28	57.8	74.3
LA 90185G3-1-3-4-2	60.0	55.8	30	4-22	5-30	59.0	
AR 910-9-1	59.6	54.5	33	4-22	5-27		
DELTA GROW 7100	59.4	55.5	29	4-26	5-28		
NK COKER 9543	59.3	56.5	29	4-23	5-28	54.6	62.9
PIONEER BRAND 26R46	59.1	55.5	29	4-22	5-25	58.5	72.0
TERRAL TV 8555	58.8	56.0	28	4-26	5-29	54.2	68.2
PROGENY 188	58.7	56.5	31	4-26	5-28		
PROGENY 156	58.5	54.3	33	4-25	5-27	58.7	69.3
NK COKER 9152	58.1	54.5	33	4-23	5-27	54.4	

Table 3. (continued).

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			----bu/A----	
AGRIPRO NATCHEZ	58.1	55.0	34	4-24	5-26	56.7	70.0
SOUTH. STATES SS 518	58.1	54.8	29	4-21	5-27	53.9	66.7
F 334W	57.9	56.3	33	4-28	5-31	62.7	
DIXIE X9112	55.5	54.8	33	4-22	5-26		
LA 90518PB43-3-1-4	53.0	53.8	29	4-22	5-27	55.8	
LA 9389C37-1	50.9	54.0	28	4-23	5-29		
ARMOR X5212	50.5	55.0	31	4-25	5-29		
LA 94242D4-4	46.7	54.8	31	4-23	5-29		
LA 94242D4-2	43.5	54.5	30	4-23	5-30		
Grand mean	63.6	55.9	32	4-24	5-28	62.2	73.2
LSD (5%)	7.2	1.3	2	1	2	9.6	9.0
C.V. (%)	8.1	1.7	5	1	1	10.6	10.5

Pt ht = Plant height

STANDARD INPUT WHEAT TEST
VEGETABLE SUBSTATION, KIBLER, AR

SOIL SERIES....Roxanna silt loam
PREVIOUS CROP....Fallow
PLANTING DATE....October 29, 2001
FERTILIZER....60 lb N/A + 18 lb S/A on March 14, 2002
HERBICIDE APPLICATION....None
FUNGICIDE APPLICATION....None
HARVEST DATE....June 25, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	3.2	2.6	6.3	2.9	1.7	9.8	6.6	3.2	36.2
Normal	3.3	3.2	2.8	2.4	2.7	3.9	4.2	4.6	27.1
Departure	-0.1	-0.6	+3.5	+0.5	-1.0	+5.9	+2.4	-1.4	+9.2

Table 4. Performance of Wheat Cultivars in Standard Performance Test, Kibler.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date
	bu/A	lb/bu	in		
AGRIPRO SAVAGE	87.7	55.5	35	4-25	6-02
AGRIPRO D97-6075-1	85.4	55.5	36	4-24	5-31
GENESIS R023	84.7	53.5	41	4-26	6-04
PIONEER 2552	84.4	53.3	36	4-24	6-04
DELTA KING 7777	81.7	53.8	40	4-27	6-03
AR 839-28-1-2	80.6	53.5	38	4-27	6-03
PROGENY 166	80.0	55.0	40	4-28	6-04
NK COKER 9152	79.4	52.8	39	4-23	6-02
DELTA KING 9333	79.2	53.3	40	4-26	6-03
DELTA KING 9410	78.3	53.3	39	4-25	6-03
AGRIPRO NATCHEZ	77.9	52.3	39	4-28	6-02
PAT	77.5	54.3	40	4-29	6-04
DIXIE 900	77.2	54.0	39	4-28	6-04
DIXIE X9412	75.8	53.8	40	4-27	6-04
AR 850-1-1	75.7	54.5	37	4-25	5-30
DIXIE X9312	75.6	53.5	40	4-28	6-04
HBK X3004	75.6	54.3	40	4-28	6-04
ARMOR 2025	75.6	53.0	41	4-26	6-04
ARMOR X5222	75.6	55.0	39	4-26	6-04
AR 839-25-8-2	74.5	54.0	37	4-26	6-01
McCORMICK	74.4	54.3	35	4-27	6-02
DELTA GROW 4200	74.2	54.8	39	4-26	6-03
DELTA KING 7900	73.3	53.3	40	4-26	6-03
VA98W-593	72.9	54.5	35	4-27	6-04
ARMOR X5333	72.6	51.5	41	4-27	6-04
AGRIPRO SHELBY	72.5	54.3	40	4-26	6-04
ARMOR 4045	72.4	51.5	40	4-26	6-04
TERRAL TV8450	72.3	52.5	39	4-26	6-03
PROGENY 118	71.5	54.5	40	4-25	6-03
DIXIE 922	71.5	53.8	40	4-27	6-03
DELTA GROW 4888	71.4	52.5	40	4-26	6-03
PROGENY 145	70.8	53.0	39	4-26	6-03
DIXIE X9512	70.3	52.0	39	4-25	6-03

Table 4. (continued).

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date
	bu/A	lb/bu	in		
NK COKER 9663	70.1	54.5	40	4-26	6-05
DIXIE X9212	69.5	53.8	41	4-26	6-04
F 334W	68.6	55.5	40	4-28	6-05
SABBE	68.6	52.3	37	4-30	6-05
AGS 2000	68.4	51.8	38	4-24	6-03
PIONEER XW00B	67.8	51.3	36	4-25	6-02
PIONEER BRAND 26R46	67.7	51.5	35	4-24	6-02
ARMOR 3235	67.7	52.3	40	4-26	6-04
TERRAL TV8565	67.2	52.7	40	4-27	6-04
CROPLAN GENET. 554W	67.1	48.8	36	4-26	6-03
AR LA85411	66.9	53.0	36	4-24	6-01
ARMOR 3035	66.8	52.8	38	4-27	6-04
DIXIE X9611	66.7	50.0	39	4-27	6-02
UGA 90552AE33	66.4	51.8	37	4-25	6-02
PROGENY 133	66.2	52.8	38	4-26	6-03
UGA 92485E15	66.2	51.3	38	4-25	6-03
HBK X3006	65.2	50.8	35	4-30	6-03
USG 3209	64.6	51.5	34	4-24	6-02
DELTA KING 9216	64.5	52.0	39	4-28	6-04
ROANE	64.4	53.8	36	4-26	6-02
DELTA GROW 5300	64.1	49.8	39	4-26	6-03
TERRAL TV 8555	63.6	52.0	32	4-28	6-04
GENESIS R024	63.2	52.0	34	4-28	6-03
DELTA GROW 7100	63.2	51.5	37	4-28	6-04
SOUTH. STATES SS 535	62.9	51.5	36	4-28	6-03
DIXIE X9112	62.8	49.0	41	4-26	6-04
USG 3650	62.6	50.8	37	4-27	6-03
LA 90518PB43-3-1-4	62.5	51.0	35	4-26	6-03
PROGENY 103	62.5	49.3	36	4-28	6-03
TERRAL TVX81466	62.5	51.8	37	4-29	6-04
FFR 522	62.4	50.5	34	4-26	6-02
FFR 510	62.3	48.5	38	4-23	5-31
PROGENY 188	62.3	51.5	35	4-26	6-02
SOUTH. STATES SS 522	62.2	51.5	35	4-26	6-04
AR 910-9-1	61.8	52.0	38	4-25	6-02
DELTA KING 9121	61.7	50.5	36	4-25	6-04
CROPLAN GENET. 517W	61.0	50.3	33	4-22	6-02
PIONEER BRAND 26R24	61.0	51.0	35	4-26	6-03
DELTA KING 9027	60.6	50.8	36	4-27	6-03
DELTA KING 1551W	60.4	51.7	35	4-25	6-04
PIONEER BRAND 26R38	59.6	51.3	37	4-26	6-02
LA 90185G3-1-3-4-2	59.2	50.7	38	4-27	6-05
PROGENY 156	58.9	50.8	36	4-28	6-05
ARMOR X5212	58.2	52.5	37	4-26	6-03
AR 910-9-2	57.7	51.3	38	4-26	6-05
AGRIPRO PATTON	57.6	49.0	37	4-26	6-05
USG 3709	57.1	49.8	38	4-23	6-05
HBK 3030	56.9	51.5	36	4-23	6-03
SOUTH. STATES SS524	56.1	49.0	34	4-24	6-03
FFR 556	55.7	50.8	36	4-25	6-01

Table 4. (continued).

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date
	bu/A	lb/bu	in		
SOUTH. STATES SS520	55.0	47.7	37	4-23	6-01
NK COKER 9543	55.0	49.0	36	4-24	6-01
LA 9389C37-1	54.1	52.5	34	4-27	6-05
LA 94242D4-4	53.8	51.8	38	4-26	6-04
LA 94242D4-2	51.6	52.8	38	4-25	6-03
SOUTH. STATES SS 518	51.6	49.7	36	4-24	6-01
FFR 521	51.5	50.3	33	4-24	6-04
TERRAL LA422	50.5	49.8	37	4-26	6-03
SISSON	46.8	48.5	35	4-23	6-03
Grand mean	66.9	52.1	37	4-26	6-03
LSD (5%)	9.6	2.4	3	2	2
C.V. (%)	10.3	3.4	6	3	2

Pt ht = Plant height

2002002274

STANDARD INPUT WHEAT TEST
COTTON BRANCH STATION, MARIANNA, AR

SOIL SERIES....Loring silt loam
PREVIOUS CROP....Fallow
PLANTING DATE....October 17, 2001
FERTILIZER.... 60 lb/A N on Feb. 13, 2002; 40 lb/A N on March 5, 2002; 150 lb/A 0-0-60 on Feb. 12, 2002; 150 lb/A 0-46-0 on Feb. 14, 2002; and 18 lb S/A on March 5, 2002
HERBICIDE....1⅓ pt/A Hoelon on November 16, 2002
INSECTICIDE....None
HARVEST DATE....June 4, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	6.2	7.7	10.2	2.8	2.3	11.4	0.8	4.5	45.9
Normal	3.0	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	+3.2	+3.3	+5.4	-1.6	-1.8	+6.0	-4.7	-0.7	+9.1

Table 5. Performance of Wheat Cultivars in Standard Performance Test, Marianna.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	%	-----bu/A-----	
AGRIPRO NATCHEZ	94.7	53.5	2	38	4-18	5-24	0	0	86.0	87.9
AGRIPRO D97-6075-1	94.1	57.5	0	34	4-18	5-23	0	3		
FFR 556	87.4	53.3	0	35	4-17	5-23	0	2		
GENESIS R023	86.3	56.3	0	39	4-17	5-23	0	1		
AGRIPRO SAVAGE	86.1	57.5	0	34	4-18	5-23	0	4		
DIXIE 900	85.6	54.5	0	39	4-17	5-24	0	0	84.4	91.3
CROPLAN GENET. 554W	84.8	53.3	0	34	4-18	5-23	0	1	78.7	
DELTA KING 9410	84.7	56.0	1	36	4-17	5-24	0	2		
DELTA GROW 4200	84.5	53.7	1	38	4-17	5-24	0	4		
PROGENY 166	83.7	54.5	0	36	4-16	5-23	0	1		
USG 3209	82.8	54.0	0	32	4-17	5-23	0	0	79.6	82.9
DIXIE X9212	82.6	53.5	1	38	4-17	5-23	0	2		
DIXIE 922	81.3	53.7	0	38	4-17	5-24	0	1	78.8	86.7
DELTA KING 9333	80.8	56.0	0	41	4-18	5-23	0	1	80.7	
DELTA KING 7777	80.2	55.0	0	38	4-18	5-24	0	30	83.1	
SOUTH. STATES SS 535	80.0	57.3	0	33	4-18	5-23	0	2	82.4	85.2
HBK X3004	79.8	56.0	0	38	4-17	5-23	0	4		
McCORMICK	79.3	54.0	0	32	4-18	5-23	0	4		
SOUTH. STATES SS520	78.3	51.5	1	37	4-16	5-23	0	2		
UGA 92485E15	78.3	55.3	1	37	4-18	5-23	0	1		
AR 850-1-1	78.1	57.5	0	34	4-18	5-24	1	0		
AGRIPRO SHELBY	77.9	55.3	1	39	4-16	5-24	0	4	79.9	86.9
DELTA KING 7900	77.6	53.3	0	38	4-17	5-24	0	3	77.4	
AR 839-28-1-2	77.1	55.5	0	37	4-18	5-24	0	2	77.8	
AGS 2000	76.9	56.0	0	36	4-12	5-24	1	0	77.9	83.8
NK COKER 9152	76.3	55.5	1	36	4-17	5-24	0	0	80.1	
AR 839-25-8-2	75.4	55.8	0	35	4-18	5-24	0	2	76.3	
ARMOR X5333	74.8	52.3	0	39	4-18	5-24	0	3		
DIXIE X9312	74.7	52.7	1	39	4-18	5-23	0	6		
DELTA GROW 4888	74.6	51.3	0	39	4-18	5-23	0	2	76.0	76.0
PIONEER BRAND 26R46	74.5	54.5	1	35	4-16	5-24	3	1	79.2	83.8
PROGENY 145	74.3	54.0	0	38	4-17	5-23	0	1		

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Table 5. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	%	-----bu/A-----	
PIONEER XW00B	74.1	51.3	0	34	4-16	5-24	0	0		
DELTA GROW 7100	74.1	53.8	0	33	4-18	5-23	0	4		
DIXIE X9512	74.0	55.8	1	38	4-17	5-23	0	7		
FFR 510	74.0	51.5	0	37	4-16	5-23	0	1	74.1	79.8
PIONEER 2552	74.0	53.8	0	34	4-20	5-24	0	12		
NK COKER 9663	73.8	55.5	2	38	4-17	5-23	0	2	75.9	81.0
ARMOR 2025	73.5	54.8	0	37	4-17	5-23	0	1	77.4	85.0
ROANE	73.4	58.3	0	33	4-19	5-23	0	0	69.0	77.9
ARMOR 3035	73.4	52.8	0	38	4-18	5-23	0	1	83.6	85.9
PIONEER BRAND 26R24	73.1	53.3	1	37	4-17	5-23	0	1	77.9	80.1
PAT	73.1	56.5	0	36	4-22	5-24	0	2	75.2	81.0
HBK 3030	73.1	53.3	0	33	4-17	5-23	0	1	70.6	
GENESIS R024	72.9	55.3	0	32	4-18	5-23	0	1		
DELTA KING 9027	72.8	51.8	0	36	4-19	5-24	0	1	67.1	74.3
PROGENY 103	72.8	53.3	1	38	4-18	5-24	0	2	71.1	78.9
TERRAL TV 8555	72.7	51.8	0	33	4-19	5-24	0	0	76.7	83.8
ARMOR X5222	72.6	52.3	0	38	4-18	5-24	0	1		
ARMOR 4045	72.1	54.5	1	38	4-16	5-23	0	4	74.3	81.3
HBK X3006	71.9	51.8	0	35	4-21	5-23	0	1		
DELTA GROW 5300	71.9	53.8	0	35	4-17	5-23	0	3	71.6	
USG 3650	71.9	54.8	0	34	4-18	5-23	0	4		
PROGENY 133	71.8	53.7	0	37	4-17	5-23	0	3		
FFR 521	71.7	48.3	0	34	4-16	5-23	0	1		
SABBE	71.6	54.3	0	36	4-18	5-23	0	12	70.1	75.0
DELTA KING 1551W	70.7	54.0	0	35	4-19	5-23	0	4	70.6	80.5
TERRAL TVX81466	70.4	54.0	0	33	4-18	5-24	0	1		
TERRAL TV8565	70.4	52.8	0	38	4-18	5-23	0	1		
TERRAL TV8450	70.3	51.0	0	38	4-17	5-23	0	5		
AR 910-9-2	70.3	51.8	2	38	4-15	5-23	0	0		
LA 90185G3-1-3-4-2	70.2	50.5	1	36	4-15	5-23	1	2	80.5	
UGA 90552AE33	70.0	54.0	0	36	4-14	5-23	1	1		
DIXIE X9412	70.0	53.8	0	38	4-17	5-23	0	2		
PIONEER BRAND 26R38	69.8	53.5	1	37	4-17	5-23	1	6	77.4	79.8
AR 910-9-1	69.5	51.7	3	38	4-14	5-23	0	1		
AGRIPRO PATTON	69.2	52.0	0	37	4-18	5-23	0	0	72.2	77.0
PROGENY 156	68.8	52.5	1	38	4-18	5-23	0	1	71.3	78.4
F 334W	68.6	56.3	0	39	4-20	5-24	0	1	71.6	
PROGENY 188	68.5	53.5	0	36	4-18	5-23	0	1		
AR LA85411	68.2	56.5	0	34	4-17	5-23	0	0	71.9	77.8
DELTA KING 9216	68.1	51.3	0	38	4-18	5-23	0	2	74.7	
PROGENY 118	67.8	51.0	1	39	4-17	5-23	0	13		
FFR 522	67.8	53.8	0	37	4-17	5-23	0	0	75.3	
VA98W-593	67.8	54.3	0	33	4-18	5-23	0	5	73.6	
USG 3709	67.7	49.3	0	37	4-18	5-24	0	30	71.1	75.9
DIXIE X9611	67.6	51.7	0	38	4-19	5-23	0	1		
SOUTH. STATES SS524	67.4	51.0	0	34	4-16	5-23	0	1		
SISSON	67.1	52.3	1	34	4-16	5-23	0	2		
SOUTH. STATES SS 522	66.5	53.8	1	35	4-18	5-23	0	0	72.7	76.6
TERRAL LA422	65.0	52.8	0	34	4-17	5-23	3	0		
DIXIE X9112	64.9	48.3	0	38	4-17	5-23	0	5		
CROPLAN GENET. 517W	64.9	48.3	0	34	4-17	5-23	0	1		

Table 5. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	%	-----bu/A-----	
ARMOR 3235	63.8	50.0	1	36	4-18	5-24	8	5	67.4	75.0
LA 90518PB43-3-1-4	63.4	53.8	0	34	4-17	5-23	1	0	70.8	
SOUTH. STATES SS 518	63.0	47.5	3	34	4-12	5-23	1	0	69.9	74.5
NK COKER 9543	63.0	50.5	0	34	4-17	5-24	0	0	67.7	71.7
DELTA KING 9121	62.0	52.5	0	32	4-19	5-23	0	0	64.8	70.6
ARMOR X5212	60.6	55.5	0	35	4-18	5-24	0	1		
LA 9389C37-1	54.9	54.5	0	32	4-16	5-24	3	0		
LA 94242D4-4	43.8	51.8	0	34	4-17	5-25	23	0		
LA 94242D4-2	42.8	52.3	0	34	4-18	5-25	30	0		
Grand mean	72.9	53.5	0	36	4-17	5-23	1	3	75.2	80.2
LSD (5%)	7.9	3.5		2	2	1	3		11.5	8.9
C.V. (%)	7.8	4.7		4	2	1	285		8.9	8.2

Ldg = Lodging Pt ht = Plant height

HIGH INPUT WHEAT TEST
COTTON BRANCH STATION, MARIANNA, AR

SOIL SERIES....Loring silt loam
PREVIOUS CROP....Fallow
PLANTING DATE....October 17, 2001
FERTILIZER.... 90 lb/A N on Feb. 13, 2002; 60 lb/A N on March 5, 2002; 150 lb/A 0-0-60 on Feb. 12, 2002; 150 lb/A 0-46-0 on Feb. 14, 2002; and 18 lb S/A on March 5, 2002
HERBICIDE....1⅓ pt/A Hoelon on November 16, 2002
FUNGICIDE....4 oz/A Tilt on April 11, 2002
INSECTICIDE....None
HARVEST DATE....June 3, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	6.2	7.7	10.2	2.8	2.3	11.4	0.8	4.5	45.9
Normal	3.0	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	+3.2	+3.3	+5.4	-1.6	-1.8	+6.0	-4.7	-0.7	+9.1

Table 6. Performance of Wheat Cultivars in High Input Performance Test, Marianna.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			%	----bu/A----	
FFR 556	96.3	52.3	35	4-17	5-23	0		
AGRIPRO SAVAGE	91.5	55.0	34	4-19	5-24	0		
AGRIPRO D97-6075-1	90.8	55.5	34	4-19	5-24	0		
HBK X3004	86.9	52.8	39	4-18	5-23	0		
CROPLAN GENET. 554W	85.2	52.3	35	4-17	5-24	0	84.7	
SOUTH. STATES SS520	82.7	52.0	37	4-16	5-23	0		
HBK 3030	82.4	54.0	34	4-17	5-23	0	79.2	
GENESIS R023	82.3	52.8	39	4-17	5-24	0		
AR 850-1-1	82.2	57.3	34	4-19	5-25	13		
DELTA KING 7900	81.0	53.8	39	4-18	5-25	0	84.8	
ARMOR X5222	80.4	53.3	38	4-17	5-24	0		
PAT	80.0	55.5	38	4-22	5-26	0	81.7	87.0
DELTA KING 7777	79.8	53.3	39	4-18	5-25	0	84.7	
PIONEER 2552	79.7	53.3	36	4-19	5-25	0		
DELTA GROW 4200	78.7	53.8	39	4-17	5-24	0		
DELTA KING 9333	78.6	55.5	40	4-19	5-24	0	79.9	
HBK X3006	78.4	52.3	35	4-19	5-23	0		
FFR 510	78.3	51.8	36	4-17	5-23	0	80.5	87.5
PROGENY 166	78.2	54.5	38	4-18	5-24	0		
AR 839-28-1-2	77.3	53.5	37	4-18	5-24	0	81.1	
DIXIE X9312	77.2	53.8	37	4-18	5-25	0		
McCORMICK	77.0	54.8	32	4-19	5-24	0		
AR 839-25-8-2	76.7	54.0	37	4-18	5-24	0	80.5	
AGRIPRO SHELBY	76.0	56.0	37	4-17	5-24	1	83.9	88.1
DIXIE 900	75.3	54.5	39	4-17	5-25	0	82.6	87.1
GENESIS R024	75.1	53.8	34	4-19	5-24	0		
DELTA GROW 4888	75.1	52.3	38	4-18	5-23	0	83.9	83.8
PIONEER XW00B	74.9	51.5	35	4-18	5-23	0		
DELTA GROW 7100	74.7	52.8	35	4-18	5-24	0		
TERRAL TVX81466	74.7	53.0	34	4-19	5-24	0		
AR 910-9-1	74.5	50.0	38	4-16	5-23	0		

Table 6. (continued).

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			%	----bu/A----	
PROGENY 188	74.2	53.5	33	4-19	5-24	0		
PROGENY 133	73.8	53.5	37	4-18	5-23	0		
USG 3650	73.4	54.0	34	4-19	5-23	0		
SABBE	73.3	55.5	36	4-19	5-24	0	74.8	82.7
UGA 92485E15	73.0	50.5	35	4-15	5-23	4		
NK COKER 9663	72.6	58.0	39	4-17	5-24	0	78.4	88.0
DIXIE X9412	72.4	50.8	37	4-18	5-24	0		
AGRIPRO PATTON	72.2	50.3	37	4-18	5-24	0	75.1	81.3
TERRAL TV 8555	72.1	50.3	34	4-19	5-24	0	79.5	83.1
DELTA KING 9410	71.6	52.8	37	4-18	5-24	0		
DIXIE X9212	71.6	48.3	38	4-17	5-23	0		
ROANE	71.4	53.5	34	4-19	5-24	0	74.3	82.0
SOUTH. STATES SS 535	71.2	53.8	33	4-18	5-23	0	79.4	86.0
AGS 2000	70.8	47.0	35	4-13	5-23	0	80.2	88.2
ARMOR X5333	70.5	51.5	37	4-17	5-23	0		
F 334W	70.2	53.0	39	4-22	5-26	0	78.4	
PROGENY 118	70.2	53.3	39	4-18	5-24	0		
PIONEER BRAND 26R24	69.8	49.0	36	4-17	5-23	0	81.4	87.9
ARMOR 2025	69.8	49.8	38	4-17	5-24	0	78.7	86.1
FFR 522	69.7	54.0	35	4-17	5-23	0	81.3	
SISSON	69.6	52.8	35	4-18	5-23	0		
AGRIPRO NATCHEZ	69.0	48.8	37	4-19	5-26	0	77.7	86.2
DELTA KING 1551W	68.8	54.3	35	4-18	5-23	0	75.8	85.9
UGA 90552AE33	68.6	51.5	34	4-14	5-23	5		
TERRAL TV8450	68.5	48.5	38	4-17	5-23	0		
ARMOR 4045	68.1	51.8	38	4-18	5-25	0	76.8	85.6
VA98W-593	68.0	56.0	32	4-18	5-24	0	79.5	
DELTA KING 9027	67.9	49.8	36	4-18	5-23	0	70.8	80.5
DIXIE X9512	67.9	50.5	38	4-17	5-23	0		
DIXIE 922	67.4	51.0	38	4-17	5-24	0	76.6	84.6
PROGENY 145	67.2	50.3	37	4-17	5-23	0		
NK COKER 9152	67.1	50.3	37	4-18	5-23	0	75.8	
PROGENY 103	67.0	50.3	36	4-18	5-23	0	74.7	83.5
USG 3209	67.0	50.8	31	4-17	5-23	0	78.8	79.0
DELTA KING 9216	66.8	51.0	37	4-19	5-24	0	77.1	
TERRAL TV8565	66.3	52.0	38	4-18	5-23	0		
ARMOR 3035	66.2	51.0	38	4-18	5-24	0	76.9	88.1
DELTA GROW 5300	66.2	51.3	36	4-18	5-23	0	74.6	
SOUTH. STATES SS 522	65.5	53.8	36	4-18	5-23	0	77.1	83.2
PROGENY 156	65.1	49.8	36	4-18	5-23	0	76.5	86.0
PIONEER BRAND 26R46	65.0	51.8	34	4-15	5-24	8	79.5	86.0
ARMOR X5212	64.8	54.3	35	4-18	5-23	0		
AR 910-9-2	64.3	47.3	37	4-15	5-24	0		
USG 3709	63.5	50.5	36	4-18	5-24	0	74.3	80.1
ARMOR 3235	63.2	47.8	38	4-17	5-24	0	73.7	80.8
DIXIE X9611	63.2	48.8	37	4-21	5-24	0		
SOUTH. STATES SS524	62.7	44.5	34	4-16	5-23	0		
DELTA KING 9121	62.3	51.5	32	4-19	5-25	0	67.5	78.7
LA 90185G3-1-3-4-2	61.9	47.3	34	4-18	5-25	19	76.8	
CROPLAN GENET. 517W	61.8	44.5	34	4-16	5-24	0		
DIXIE X9112	61.0	48.0	39	4-17	5-23	0		

Table 6. (continued).

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			%	----bu/A----	
FFR 521	61.0	45.8	32	4-16	5-23	0		
AR LA85411	60.0	53.3	35	4-18	5-23	0	72.5	80.3
NK COKER 9543	59.2	42.3	32	4-18	5-22	0	70.7	76.6
TERRAL LA422	59.0	50.3	34	4-16	5-23	1		
PIONEER BRAND 26R38	54.9	48.5	36	4-17	5-24	13	75.2	80.2
LA 90518PB43-3-1-4	53.9	52.3	33	4-17	5-23	0	68.7	
SOUTH. STATES SS 518	53.4	46.3	32	4-14	5-23	5	70.2	76.8
LA 9389C37-1	48.9	53.3	30	4-18	5-25	1		
LA 94242D4-4	45.6	50.0	35	4-18	5-26	30		
LA 94242D4-2	41.9	49.3	32	4-19	5-27	30		
Grand mean	70.6	51.7	36	4-18	5-24	1	77.6	83.8
LSD (5%)	10.2	2.8	2	1	1	4	13.4	10.1
C.V. (%)	10.4	3.9	4	2	1	199	7.9	9.6

Pt ht = Plant height

STANDARD INPUT WHEAT TEST
SOUTHEAST BRANCH STATION, ROHWER, AR

SOIL SERIES....McGehee silt loam
PREVIOUS CROP...Fallow
PLANTING DATE....October 30, 2001
FERTILIZER.... 90 lb/A N on Feb. 18, 2002; 60 lb/A N on April 2, 2002
HERBICIDE....None
INSECTICIDE....None
HARVEST DATE....June 4, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	10.4	10.3	12.0	6.0	2.4	9.5	1.2	10.4	62.2
Normal	4.5	5.6	6.7	3.4	5.5	5.2	3.5	4.7	39.1
Departure	+5.9	+4.7	+5.3	+2.6	-3.1	+4.3	-2.3	+5.7	+23.1

Table 7. Performance of Wheat Cultivars in Standard Input Test, Rohwer.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date
	bu/A	lb/bu	%	in		
GENESIS R023	84.1	51.8	1	42	4-17	5-16
TERRAL TV8450	83.5	53.4	2	43	4-17	5-17
PAT	82.6	55.3	0	41	4-21	5-21
PIONEER BRAND 26R46	82.0	55.0	0	39	4-15	5-14
ARMOR 2025	81.6	51.6	2	42	4-18	5-16
DELTA GROW 4200	81.6	52.8	6	43	4-19	5-18
PROGENY 166	81.3	52.3	2	41	4-19	5-19
PROGENY 145	80.5	53.1	3	41	4-17	5-17
DIXIE X9412	80.1	51.6	2	42	4-19	5-18
HBK X3004	79.8	53.3	1	42	4-19	5-18
DIXIE X9512	79.8	54.2	7	42	4-17	5-18
DELTA GROW 5300	79.6	51.6	25	41	4-19	5-17
ARMOR 3035	79.6	51.5	1	41	4-19	5-19
AR 839-28-1-2	79.3	53.7	0	43	4-19	5-20
AGRIPRO NATCHEZ	79.2	49.7	6	41	4-19	5-19
CROPLAN GENET. 517W	78.7	50.2	2	38	4-15	5-16
DIXIE X9212	78.6	54.1	4	42	4-17	5-17
DELTA GROW 4888	78.1	53.1	1	42	4-19	5-18
FFR 521	77.8	50.0	1	37	4-15	5-16
AR 839-25-8-2	77.7	54.3	3	40	4-20	5-19
DIXIE 900	77.4	53.2	3	42	4-20	5-19
PROGENY 133	76.9	52.5	17	43	4-19	5-18
SOUTH. STATES SS 518	76.8	48.5	18	38	4-15	5-13
NK COKER 9152	76.6	52.7	31	42	4-16	5-15
PROGENY 103	75.9	51.3	3	40	4-18	5-17
SOUTH. STATES SS524	75.8	50.5	2	37	4-15	5-15
McCORMICK	75.1	53.0	20	36	4-19	5-19
DIXIE 922	75.0	52.9	2	42	4-19	5-18
SOUTH. STATES SS 535	74.9	53.8	25	38	4-18	5-17
PIONEER XW00B	74.7	53.6	1	38	4-18	5-18
SABBE	74.3	51.1	0	38	4-20	5-20
ARMOR X5222	74.2	54.1	14	42	4-18	5-18
DELTA KING 9333	73.9	51.7	1	42	4-21	5-19

Table 7. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date
	bu/A	lb/bu	%	in		
AGRIPRO SAVAGE	73.8	55.0	1	36	4-19	5-18
TERRAL TVX81466	73.8	48.6	6	39	4-19	5-18
NK COKER 9663	73.7	54.1	40	42	4-15	5-16
DELTA KING 9410	73.7	52.0	4	42	4-18	5-19
FFR 556	73.4	49.5	8	35	4-19	5-17
ARMOR 3235	73.1	51.8	4	41	4-19	5-19
AR LA85411	72.9	54.9	6	37	4-17	5-15
LA 90518PB43-3-1-4	72.9	53.8	6	38	4-15	5-14
AR 850-1-1	72.3	55.6	0	38	4-18	5-16
DIXIE X9611	72.1	48.7	21	42	4-21	5-19
DELTA KING 7900	72.1	51.4	1	42	4-19	5-18
USG 3650	71.6	47.8	6	38	4-20	5-19
AR 910-9-2	71.5	52.4	1	41	4-15	5-16
PIONEER 2552	71.5	52.1	2	39	4-20	5-19
UGA 90552AE33	71.2	53.5	4	41	4-15	5-15
AR 910-9-1	71.0	53.3	3	40	4-15	5-15
VA98W-593	70.9	52.1	35	36	4-18	5-19
DIXIE X9312	70.8	51.7	2	42	4-19	5-18
AGRIPRO SHELBY	70.8	52.2	8	41	4-15	5-14
USG 3709	70.3	50.4	2	40	4-19	5-18
ARMOR X5333	70.2	51.7	4	41	4-19	5-18
HBK 3030	70.1	52.8	1	37	4-19	5-19
UGA 92485E15	70.1	55.7	4	41	4-15	5-14
TERRAL TV8565	69.6	51.9	2	40	4-19	5-19
LA 90185G3-1-3-4-2	69.6	52.9	23	40	4-15	5-17
F 334W	69.3	52.0	0	40	4-21	5-22
AGS 2000	69.0	55.4	13	40	4-15	5-16
PROGENY 188	68.4	50.2	2	40	4-19	5-18
AGRIPRO D97-6075-1	68.3	54.8	35	38	4-20	5-19
DIXIE X9112	68.3	49.1	10	42	4-18	5-17
USG 3209	67.8	51.8	21	37	4-15	5-16
FFR 522	67.7	53.5	25	39	4-18	5-17
SOUTH. STATES SS 522	67.7	54.0	10	40	4-18	5-18
PROGENY 118	67.4	51.2	6	42	4-19	5-19
FFR 510	67.3	52.5	7	40	4-15	5-12
ARMOR 4045	67.2	50.2	13	43	4-19	5-19
NK COKER 9543	66.7	49.0	7	36	4-17	5-16
DELTA KING 7777	66.7	49.6	9	42	4-19	5-19
GENESIS R024	66.7	51.9	1	39	4-19	5-17
DELTA GROW 7100	66.6	49.6	4	37	4-20	5-19
DELTA KING 1551W	66.4	51.2	4	39	4-19	5-19
DELTA KING 9027	65.8	46.9	40	39	4-19	5-19
PIONEER BRAND 26R38	65.2	54.7	4	41	4-15	5-14
PROGENY 156	64.7	48.7	11	41	4-20	5-19
PIONEER BRAND 26R24	64.6	49.8	6	40	4-17	5-14
CROPLAN GENET. 554W	64.3	50.8	13	35	4-19	5-16
HBK X3006	63.2	47.9	24	38	4-19	5-19
SOUTH. STATES SS520	63.0	50.9	37	40	4-15	5-12
DELTA KING 9216	61.8	45.5	14	41	4-20	5-19
ARMOR X5212	61.6	52.4	9	39	4-20	5-19

Table 7. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date
	bu/A	lb/bu	%	in		
AGRIPRO PATTON	61.3	47.6	4	40	4-19	5-20
ROANE	61.3	52.2	37	35	4-21	5-19
TERRAL TV 8555	59.7	48.7	1	35	4-20	5-19
LA 9389C37-1	59.2	54.8	1	36	4-16	5-19
TERRAL LA422	56.8	51.3	45	40	4-15	5-16
SISSON	51.1	50.4	40	37	4-19	5-18
LA 94242D4-4	50.6	49.8	1	39	4-15	5-17
DELTA KING 9121	47.8	46.0	16	37	4-20	5-19
LA 94242D4-2	45.1	49.3	9	38	4-16	5-18
Grand mean	71.0	51.8	10	40	4-18	5-17
LSD (5%)	11.8	2.6		2	1	1
C.V. (%)	12.0	3.6		4	2	1

Ldg = Lodging Pt ht = Plant height

Z00200274

HIGH INPUT WHEAT TEST
SOUTHEAST BRANCH STATION, ROHWER, AR

SOIL SERIES....McGehee silt loam
PREVIOUS CROP...Fallow
PLANTING DATE....October 30, 2001
FERTILIZER.... 90 lb/A N on Feb. 18, 2002; 60 lb/A N on April 2, 2002
HERBICIDE....None
FUNGICIDE....4 oz/A Tilt on April 15, 2002
INSECTICIDE....None
HARVEST DATE....June 4, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	10.4	10.3	12.0	6.0	2.4	9.5	1.2	10.4	62.2
Normal	4.5	5.6	6.7	3.4	5.5	5.2	3.5	4.7	39.1
Departure	+5.9	+4.7	+5.3	+2.6	-3.1	+4.3	-2.3	+5.7	+23.1

Table 8. Performance of Wheat Cultivars in High Input Performance Test, Rohwer.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill
	bu/A	lb/bu	%	in			%
DIXIE X9412	102.5	55.4	3	42	4-18	5-18	0
UGA 90552AE33	95.5	55.8	9	41	4-15	5-14	0
AR 850-1-1	93.4	56.3	0	37	4-17	5-15	0
HBK X3004	93.3	55.9	4	42	4-18	5-18	0
DIXIE X9512	92.7	55.6	25	42	4-16	5-18	0
FFR 556	92.6	51.9	7	35	4-18	5-18	0
SOUTH. STATES SS524	92.4	51.8	26	37	4-15	5-17	0
DIXIE X9212	91.9	54.8	4	42	4-17	5-17	0
ARMOR 3035	91.9	53.2	4	41	4-17	5-19	0
PIONEER XW00B	91.9	54.9	1	38	4-19	5-19	0
PROGENY 166	91.8	56.3	2	42	4-18	5-18	0
DIXIE X9312	91.7	55.1	10	41	4-19	5-18	0
PIONEER BRAND 26R46	91.5	56.1	0	38	4-15	5-14	0
AGRIPRO SAVAGE	91.3	56.9	12	37	4-19	5-19	0
ARMOR 2025	91.1	52.6	10	42	4-17	5-18	0
DELTA KING 7900	90.8	53.2	2	42	4-18	5-18	0
DELTA KING 7777	90.1	54.5	16	40	4-18	5-20	0
CROPLAN GENET. 554W	89.8	55.1	31	35	4-18	5-17	0
PROGENY 133	89.5	53.8	10	42	4-18	5-18	0
McCORMICK	89.1	54.3	17	36	4-17	5-18	0
PAT	88.9	55.7	0	42	4-21	5-22	0
DELTA KING 9216	88.5	53.9	30	40	4-19	5-19	0
PIONEER 2552	88.1	56.0	1	39	4-19	5-20	0
DIXIE 900	87.8	55.7	3	41	4-19	5-19	0
PROGENY 188	87.6	52.3	2	39	4-19	5-18	0
AGRIPRO D97-6075-1	87.5	56.0	3	36	4-19	5-19	0
USG 3650	87.3	52.0	2	40	4-19	5-19	0
AGS 2000	87.3	56.5	14	39	4-15	5-16	0
AGRIPRO SHELBY	87.2	56.9	43	41	4-15	5-16	0
DELTA KING 9410	87.1	55.5	6	42	4-18	5-17	0
HBK 3030	87.0	55.5	6	37	4-18	5-19	0
AR 839-25-8-2	86.5	55.2	35	38	4-19	5-20	0

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Table 8. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill
	bu/A	lb/bu	%	in			%
DELTA GROW 4200	86.5	56.1	1	42	4-18	5-18	0
SABBE	86.3	53.7	0	37	4-19	5-20	0
PIONEER BRAND 26R24	86.2	51.5	80	39	4-17	5-16	0
PIONEER BRAND 26R38	85.9	55.7	8	41	4-15	5-15	0
TERRAL TV8450	85.6	54.2	21	41	4-18	5-17	0
DELTA GROW 5300	84.7	53.5	33	40	4-18	5-16	0
ARMOR X5333	84.4	54.7	20	42	4-18	5-19	0
AR 910-9-1	84.4	55.8	5	39	4-15	5-15	0
UGA 92485E15	84.3	56.2	48	41	4-15	5-14	0
DELTA GROW 4888	84.2	54.8	16	41	4-18	5-19	0
PROGENY 145	84.2	55.3	2	42	4-17	5-17	0
LA 90185G3-1-3-4-2	83.6	54.3	43	41	4-15	5-18	0
FFR 522	83.6	54.7	41	39	4-17	5-19	0
TERRAL TVX81466	83.5	53.7	1	38	4-19	5-18	0
AR 839-28-1-2	83.2	55.9	8	40	4-19	5-21	0
FFR 521	83.0	50.9	15	39	4-15	5-17	0
GENESIS R023	83.0	52.8	11	42	4-17	5-17	0
TERRAL TV8565	82.9	55.0	6	42	4-19	5-19	0
DELTA KING 9333	82.8	53.9	3	42	4-19	5-20	0
ARMOR X5222	82.5	54.5	13	42	4-18	5-19	0
DELTA KING 1551W	82.3	53.9	9	40	4-19	5-19	0
DIXIE 922	82.2	50.9	23	42	4-18	5-18	0
VA98W-593	82.1	56.8	6	36	4-18	5-19	0
NK COKER 9663	81.9	57.1	58	42	4-15	5-17	0
DIXIE X9611	81.6	52.3	3	41	4-21	5-19	0
AGRIPRO NATCHEZ	81.6	52.1	48	40	4-18	5-19	0
HBK X3006	81.2	53.0	3	38	4-19	5-19	0
AGRIPRO PATTON	81.2	53.1	35	41	4-18	5-19	0
PROGENY 156	80.7	53.0	24	39	4-19	5-19	0
PROGENY 118	80.7	52.3	55	42	4-18	5-19	0
AR LA85411	80.6	54.7	21	38	4-17	5-15	0
ROANE	80.4	56.5	25	35	4-20	5-20	0
ARMOR 4045	80.2	54.4	22	41	4-18	5-18	0
SOUTH. STATES SS 535	79.9	57.2	2	37	4-18	5-18	0
PROGENY 103	79.7	54.1	63	40	4-18	5-16	0
ARMOR 3235	78.5	53.4	1	39	4-18	5-18	0
ARMOR X5212	78.3	55.7	33	40	4-19	5-19	0
GENESIS R024	77.5	52.7	5	38	4-19	5-18	0
CROPLAN GENET. 517W	77.1	51.8	3	37	4-15	5-18	0
AR 910-9-2	76.9	50.9	43	40	4-15	5-17	0
TERRAL TV 8555	76.6	52.5	11	36	4-19	5-19	0
SISSON	76.0	53.9	30	36	4-18	5-17	0
USG 3209	75.9	53.2	10	36	4-16	5-17	0
DELTA GROW 7100	75.8	50.1	4	38	4-20	5-19	0
FFR 510	75.3	54.6	41	41	4-16	5-12	0
SOUTH. STATES SS 522	75.1	53.0	20	39	4-18	5-19	0
NK COKER 9543	74.9	52.8	1	36	4-17	5-19	0
SOUTH. STATES SS520	73.7	53.4	38	40	4-17	5-13	0
DELTA KING 9027	73.7	50.3	23	38	4-20	5-20	0
DIXIE X9112	72.7	53.7	15	43	4-17	5-18	0
NK COKER 9152	71.5	55.2	43	42	4-16	5-15	0

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Table 8. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill
	bu/A	lb/bu	%	in			%
USG 3709	70.6	50.3	3	41	4-18	5-20	0
LA 9389C37-1	70.6	55.3	0	36	4-16	5-21	0
F 334W	69.5	52.3	1	41	4-21	5-21	0
LA 90518PB43-3-1-4	69.1	52.7	48	38	4-16	5-15	5
SOUTH. STATES SS 518	68.8	50.6	20	38	4-14	5-13	0
TERRAL LA422	68.3	54.2	60	39	4-15	5-16	0
DELTA KING 9121	65.8	48.7	45	36	4-19	5-20	0
LA 94242D4-4	61.4	52.9	2	38	4-15	5-18	0
LA 94242D4-2	59.0	53.3	4	40	4-15	5-19	0
Grand mean	82.7	54.0	18	40	4-18	5-18	0
LSD (5%)	11.6	2.9		2	1	1	
C.V. (%)	10.1	3.9		4	2	1	

Ldg = Lodging Pt ht = Plant height

200200274

STANDARD INPUT WHEAT TEST
RICE RESEARCH & EXTENSION CENTER, STUTTGART, AR

SOIL SERIES....Crowley silt loam
PREVIOUS CROP....Fallow
PLANTING DATE....October 18, 2001
FERTILIZER....60 lb/A N on Feb. 14, 2002; 40 lb/A N on March 6, 2002; 150 lb/A 0-46-0 on October 25, 2001
HERBICIDE.....2 oz/A Sencor on November 16, 2001
INSECTICIDE....None
HARVEST DATE....June 11, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	8.5	7.6	6.9	2.5	2.4	12.4	1.0	10.5	51.8
Normal	2.7	4.4	4.6	4.0	4.0	5.1	5.2	4.7	34.7
Departure	+5.8	+3.2	+2.3	-1.5	-1.6	+7.3	-4.2	+5.8	17.1

Table 9. Performance of Wheat Cultivars in Standard Performance Test, Stuttgart.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Strp rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	----bu/A----	
PROGENY 166	93.4	56.8	0	45	4-18	5-15	0		
GENESIS R023	92.6	55.8	0	44	4-15	5-15	0		
ARMOR X5222	92.0	56.8	1	42	4-18	5-16	0		
HBK X3004	91.9	56.0	0	42	4-17	5-16	0		
AGRIPRO D97-6075-1	91.7	59.0	3	39	4-19	5-16	0		
DELTA GROW 4200	91.6	56.5	0	44	4-17	5-15	0		
AGRIPRO SAVAGE	91.4	59.3	0	37	4-19	5-16	0		
PIONEER XW00B	90.7	55.0	0	37	4-15	5-13	0		
DELTA KING 9410	89.8	55.5	0	43	4-17	5-15	0		
PROGENY 145	89.4	55.3	1	43	4-16	5-14	0		
ARMOR 2025	87.9	55.3	0	44	4-15	5-15	0	84.6	87.9
HBK 3030	87.9	55.0	0	39	4-17	5-18	0	80.0	
DELTA KING 7900	87.7	54.5	0	44	4-18	5-16	0	83.1	
DIXIE 900	87.6	56.3	0	43	4-18	5-16	0	85.2	86.4
TERRAL TV8565	87.6	56.0	0	44	4-18	5-16	0		
AGRIPRO SHELBY	87.4	56.5	4	40	4-15	5-12	1	87.3	83.7
PIONEER 2552	86.9	57.3	0	41	4-18	5-17	0		
TERRAL TV8450	86.7	54.8	0	42	4-16	5-15	1		
AGRIPRO NATCHEZ	86.6	53.3	6	43	4-17	5-15	0	85.8	82.2
PAT	86.5	56.5	0	43	4-16	5-19	0	84.0	81.3
DELTA KING 9333	85.8	54.3	0	44	4-18	5-16	0	81.6	
DIXIE X9512	85.8	55.8	1	44	4-15	5-15	0		
DELTA GROW 4888	85.6	55.3	0	43	4-17	5-16	0	84.0	78.5
AR 910-9-1	85.3	54.0	1	43	4-13	5-12	0		
AR 910-9-2	85.1	54.0	0	40	4-13	5-13	0		
DIXIE 922	84.6	54.5	1	43	4-18	5-17	0	82.2	83.8
TERRAL TVX81466	84.6	53.5	0	41	4-18	5-15	0		
DELTA GROW 7100	84.6	53.8	0	39	4-18	5-14	1		
DELTA KING 9216	84.5	53.5	0	42	4-19	5-18	1	85.0	
HBK X3006	84.4	54.5	0	42	4-18	5-14	0		
ARMOR 3035	84.4	55.0	0	42	4-18	5-15	0	83.5	84.6
DIXIE X9412	84.4	54.0	1	42	4-17	5-16	0		
ARMOR X5333	84.3	54.0	1	43	4-17	5-16	0		

Table 9. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Strp rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	----bu/A----	
DIXIE X9312	84.1	54.0	0	43	4-18	5-17	0		
NK COKER 9152	83.9	54.5	11	43	4-15	5-13	0	73.1	
DELTA KING 7777	83.9	55.3	1	44	4-18	5-18	0	82.9	
AGS 2000	83.6	55.0	4	40	4-14	5-15	0	83.7	83.8
AR 839-28-1-2	83.6	56.5	0	42	4-18	5-15	0	82.4	
ARMOR 4045	83.5	54.0	0	45	4-18	5-17	0	79.7	82.5
AR 839-25-8-2	83.4	56.0	0	42	4-18	5-17	0	84.3	
PROGENY 103	83.1	52.8	8	41	4-16	5-12	0	78.2	78.4
USG 3650	82.6	54.0	0	37	4-18	5-16	0		
PROGENY 133	82.4	54.3	1	43	4-18	5-17	0		
AR LA85411	82.1	56.5	8	37	4-15	5-13	0	77.5	80.7
DELTA KING 1551W	82.0	54.3	4	39	4-18	5-15	0	81.5	81.2
DELTA GROW 5300	81.5	53.8	11	41	4-16	5-13	0	74.3	
AR 850-1-1	81.5	56.5	0	37	4-17	5-17	19		
SABBE	81.3	55.3	0	40	4-18	5-19	0	81.6	73.5
CROPLAN GENET. 517W	80.5	49.8	0	38	4-14	5-13	0		
DIXIE X9212	80.4	55.3	0	43	4-15	5-14	0		
McCORMICK	79.8	56.3	10	34	4-16	5-16	0		
SOUTH. STATES SS 535	79.7	56.3	1	38	4-17	5-14	1	79.1	76.8
SOUTH. STATES SS524	79.5	50.5	3	37	4-13	5-13	8		
FFR 521	79.3	50.8	0	37	4-13	5-13	0		
TERRAL TV 8555	78.9	54.8	0	39	4-18	5-14	0	81.7	83.1
CROPLAN GENET. 554W	78.8	54.0	1	38	4-18	5-13	0	80.4	
PIONEER BRAND 26R24	78.2	51.8	11	42	4-16	5-13	0	84.2	82.1
PROGENY 118	77.8	54.5	3	43	4-16	5-16	0		
FFR 556	77.7	54.0	4	37	4-17	5-14	0		
PROGENY 188	77.4	53.3	0	40	4-17	5-16	0		
PIONEER BRAND 26R46	77.1	53.3	0	40	4-14	5-13	0	83.8	77.4
GENESIS R024	76.9	53.5	0	40	4-17	5-15	0		
DIXIE X9611	76.1	54.0	3	42	4-21	5-17	0		
F 334W	75.8	58.0	0	42	4-22	5-23	0	72.3	
ARMOR 3235	75.8	51.3	1	43	4-17	5-16	0	77.7	77.6
FFR 522	75.6	56.3	1	42	4-16	5-14	0	76.5	
USG 3209	75.4	53.0	5	35	4-15	5-14	2	75.6	83.5
VA98W-593	74.6	56.3	13	36	4-16	5-16	2	80.1	
SOUTH. STATES SS 522	73.9	55.8	1	40	4-15	5-15	0	75.4	74.0
UGA 90552AE33	73.6	55.5	1	40	4-14	5-13	1		
DELTA KING 9027	72.6	52.5	9	40	4-19	5-18	0	71.3	74.5
NK COKER 9663	72.3	56.0	16	42	4-13	5-14	0	73.4	75.6
ROANE	72.3	57.0	0	36	4-20	5-19	0	72.1	74.2
UGA 92485E15	72.1	55.3	1	40	4-14	5-13	0		
USG 3709	72.0	51.5	0	40	4-17	5-16	8	73.7	72.3
DIXIE X9112	71.0	52.8	3	44	4-18	5-15	0		
LA 90518PB43-3-1-4	70.8	53.0	5	36	4-15	5-12	0	75.4	
ARMOR X5212	70.8	56.0	0	40	4-18	5-16	0		
TERRAL LA422	70.3	53.7	10	40	4-15	5-15	1		
AGRIPRO PATTON	70.1	53.3	0	42	4-17	5-18	0	67.1	67.6
DELTA KING 9121	69.3	55.3	0	36	4-18	5-15	0	66.4	65.4
PROGENY 156	67.6	52.8	1	40	4-19	5-18	1	76.0	75.2
LA 90185G3-1-3-4-2	66.9	52.7	4	37	4-15	5-17	6	77.6	
SISSON	66.4	54.3	5	38	4-16	5-14	0		

Table 9. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Strp rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	----bu/A----	
SOUTH. STATES SS520	64.5	52.5	3	41	4-13	5-11	8		
NK COKER 9543	63.8	49.8	1	38	4-17	5-15	0	70.6	71.5
FFR 510	63.6	52.0	3	39	4-13	5-12	2	72.8	70.4
PIONEER BRAND 26R38	63.2	52.3	1	41	4-15	5-12	21	74.3	74.2
SOUTH. STATES SS 518	61.0	47.0	14	37	4-13	5-13	2	70.9	76.6
LA 9389C37-1	59.4	54.3	0	36	4-17	5-19	8		
LA 94242D4-4	43.8	52.3	0	41	4-15	5-16	8		
LA 94242D4-2	42.0	51.5	0	36	4-15	5-19	0		
Grand mean	79.1	54.4	2	41	4-17	5-15	1	78.6	78.1
LSD (5%)	8.8	1.5	6	3	2	2	6	13.8	11.7
C.V. (%)	8.0	1.9	196	5	3	2	414	7.4	10.3

Ldg = Lodging Pt ht = Plant height Strp rust = Stripe rust

HIGH INPUT WHEAT TEST
RICE RESEARCH & EXTENSION CENTER, STUTTGART, AR

SOIL SERIES....Crowley silt loam
PREVIOUS CROP....Fallow
PLANTING DATE....October 18, 2001
FERTILIZER....90 lb/A N on Feb. 14, 2002; 60 lb/A N on March 6, 2002; 150 lb/A 0-46-0 on October 25, 2001
HERBICIDE.....2 oz/A Sencor on November 16, 2001
FUNGICIDE....4 oz/A Tilt on April 11, 2002
INSECTICIDE....None
HARVEST DATE....June 11, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	8.5	7.6	6.9	2.5	2.4	12.4	1.0	10.5	51.8
Normal	2.7	4.4	4.6	4.0	4.0	5.1	5.2	4.7	34.7
Departure	+5.8	+3.2	+2.3	-1.5	-1.6	+7.3	-4.2	+5.8	17.1

Table 10. Performance of Wheat Cultivars in High Input Performance Test, Stuttgart.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			----bu/A----	
GENESIS R023	95.1	57.3	1	44	4-15	5-12		
AR 839-28-1-2	94.8	57.5	1	43	4-17	5-19	89.2	
CROPLAN GENET. 554W	94.7	55.3	3	37	4-17	5-15	88.3	
SABBE	93.3	57.0	1	40	4-17	5-19	84.5	84.9
PROGENY 133	92.3	55.5	3	42	4-18	5-17		
PIONEER XW00B	91.9	55.5	0	39	4-16	5-15		
DELTA KING 7900	91.7	55.8	3	44	4-17	5-17	85.0	
DIXIE X9212	91.3	56.3	2	42	4-16	5-15		
DELTA KING 7777	90.1	56.5	6	40	4-18	5-19	86.7	
ARMOR X5222	89.5	56.0	1	41	4-17	5-16		
DIXIE X9312	89.5	55.3	2	43	4-18	5-17		
AGRIPRO D97-6075-1	89.4	58.3	21	40	4-19	5-19		
AR 910-9-1	89.0	55.5	7	42	4-13	5-14		
DELTA KING 9333	88.4	54.5	2	46	4-18	5-17	81.9	
PROGENY 145	88.4	56.5	1	43	4-16	5-15		
FFR 556	87.7	55.5	7	38	4-17	5-14		
TERRAL TV8565	87.4	56.3	2	44	4-18	5-18		
PIONEER 2552	87.2	56.5	1	40	4-19	5-18		
ARMOR 2025	87.1	55.8	1	43	4-17	5-15	83.4	84.7
DELTA GROW 4200	87.1	55.8	3	43	4-18	5-17		
DELTA GROW 4888	86.9	55.0	1	42	4-18	5-17	83.6	81.6
SOUTH. STATES SS524	86.5	50.5	18	37	4-13	5-14		
PAT	86.3	57.3	0	41	4-20	5-21	84.6	81.7
PROGENY 103	86.1	55.5	30	40	4-15	5-13	78.4	80.5
PROGENY 166	86.0	56.3	3	43	4-18	5-17		
AGRIPRO SHELBY	86.0	57.3	53	39	4-14	5-13	88.1	82.2
AGRIPRO NATCHEZ	86.0	52.0	45	41	4-16	5-17	84.5	84.9
AR 850-1-1	85.9	57.8	1	35	4-17	5-17		
DELTA KING 9410	85.8	55.5	4	42	4-16	5-16		
HBK X3004	85.7	56.8	0	43	4-17	5-16		
DIXIE 900	85.5	55.5	2	44	4-17	5-18	82.1	85.4
AGRIPRO SAVAGE	85.4	58.0	20	42	4-20	5-19		

Table 10. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			----bu/A----	
AGS 2000	85.3	55.3	43	40	4-13	5-14	86.8	86.5
AR 839-25-8-2	85.2	56.5	0	41	4-17	5-18	83.3	
HBK X3006	84.9	54.0	2	40	4-18	5-16		
GENESIS R024	84.8	54.5	3	42	4-17	5-16		
ARMOR 3035	84.6	55.8	2	43	4-18	5-17	82.2	83.3
DIXIE 922	84.6	55.0	1	43	4-17	5-16	82.9	83.4
DELTA KING 9216	84.3	52.8	3	41	4-19	5-20	83.2	
ARMOR 4045	84.3	54.5	3	42	4-16	5-17	82.8	85.4
DIXIE X9412	84.1	54.8	2	43	4-17	5-16		
HBK 3030	83.7	55.3	0	38	4-18	5-19	80.9	
DELTA KING 1551W	83.7	55.3	10	40	4-17	5-15	81.8	80.1
ROANE	83.6	58.0	4	37	4-20	5-21	79.9	80.2
PROGENY 156	83.1	53.3	4	41	4-19	5-19	82.4	78.9
F 334W	82.8	57.0	0	42	4-22	5-23	79.1	
TERRAL TV8450	82.6	57.0	1	43	4-17	5-17		
PROGENY 188	82.3	54.3	1	39	4-19	5-17		
TERRAL TV 8555	82.2	55.7	0	36	4-18	5-16	83.9	84.9
UGA 92485E15	82.0	57.0	15	39	4-15	5-14		
VA98W-593	81.9	55.8	20	37	4-16	5-19	84.1	
UGA 90552AE33	81.2	57.3	9	40	4-15	5-13		
SOUTH. STATES SS 535	80.8	57.5	34	37	4-17	5-15	79.5	78.1
AR LA85411	80.8	57.8	11	37	4-15	5-14	76.3	76.3
DIXIE X9512	80.7	56.0	1	44	4-16	5-16		
FFR 521	80.5	50.3	12	37	4-14	5-14		
TERRAL TVX81466	80.2	53.3	2	41	4-18	5-16		
PIONEER BRAND 26R24	79.9	51.8	38	41	4-15	5-14	86.4	85.4
LA 90185G3-1-3-4-2	79.7	53.5	35	36	4-15	5-18	83.8	
USG 3650	79.6	53.5	2	39	4-17	5-17		
DELTA GROW 5300	79.1	53.8	25	42	4-15	5-13	76.5	
ARMOR X5333	78.7	55.5	2	42	4-17	5-16		
DIXIE X9112	78.7	53.8	14	40	4-15	5-16		
DELTA GROW 7100	78.1	54.3	2	39	4-18	5-18		
McCORMICK	77.9	55.8	60	33	4-17	5-17		
PIONEER BRAND 26R38	77.3	55.5	20	39	4-16	5-13	82.6	81.8
SOUTH. STATES SS520	77.1	53.5	4	40	4-14	5-12		
FFR 510	76.9	54.5	12	40	4-13	5-12	80.7	79.6
CROPLAN GENET. 517W	76.7	49.3	9	37	4-13	5-15		
NK COKER 9663	76.7	57.5	16	43	4-13	5-15	78.6	78.6
AGRIPRO PATTON	75.3	54.0	1	41	4-16	5-18	69.3	72.5
ARMOR 3235	75.1	52.8	15	40	4-17	5-17	73.9	75.7
FFR 522	74.7	55.8	5	39	4-16	5-16	78.5	
USG 3709	74.4	53.3	1	41	4-17	5-17	76.7	79.1
PROGENY 118	74.4	56.5	13	41	4-16	5-16		
NK COKER 9152	74.2	53.7	35	40	4-15	5-14	71.0	
PIONEER BRAND 26R46	74.1	54.0	14	39	4-14	5-16	78.5	78.0
TERRAL LA422	73.9	54.0	31	37	4-15	5-15		
SOUTH. STATES SS 522	73.8	56.8	4	41	4-16	5-16	79.2	76.7
AR 910-9-2	73.7	53.8	2	40	4-13	5-14		
NK COKER 9543	73.2	52.3	4	37	4-16	5-16	76.3	74.9
SISSON	72.8	55.7	26	38	4-15	5-14		
DELTA KING 9121	72.6	55.5	3	40	4-19	5-23	66.6	69.5

Table 10. (continued).

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			----bu/A----	
USG 3209	72.0	54.3	3	37	4-15	5-16	75.4	78.7
ARMOR X5212	71.8	57.5	21	38	4-18	5-15		
DELTA KING 9027	71.1	51.0	23	40	4-19	5-20	74.2	74.6
LA 90518PB43-3-1-4	70.1	52.5	13	37	4-15	5-13	73.4	
SOUTH. STATES SS 518	67.1	49.7	46	35	4-13	5-12	75.2	79.9
LA 9389C37-1	66.8	52.7	0	36	4-16	5-20		
DIXIE X9611	66.6	51.3	25	40	4-19	5-20		
LA 94242D4-4	50.8	53.3	1	37	4-16	5-16		
LA 94242D4-2	45.7	52.8	1	38	4-16	5-20		
Grand mean	81.2	55.0	10	40	4-17	5-16	80.6	80.2
LSD (5%)	7.9	2.0	18	3	1	2	11.7	9.5
C.V. (%)	7.0	2.6	124	5	2	2	5.7	8.1

Ldg = Lodging Pt ht = Plant height

200200274

STANDARD INPUT WHEAT TEST
SOUTHWEST RESEARCH & EXTENSION CENTER, HOPE (Lewisville*), AR

SOIL SERIES....Bowie silt loam
PREVIOUS CROP....Corn
PLANTING DATE....October 29, 2001
FERTILIZER....39 lb N/A + 46 lb P_2O_5 /A + 60 lb K/A + 24 lb S/A on January 22, 2002; 34 lb N/A on Feb. 28, 2002; 40 lb N/A on March 28, 2002
HERBICIDE....None
INSECTICIDE....None
HARVEST DATE....June 3, 2002
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
2001-2002	8.8	5.7	9.0	2.9	1.8	11.0	3.8	9.1	52.1
Normal	3.3	4.4	4.1	3.8	3.8	4.6	5.6	5.4	35.0
Departure	+5.5	+1.3	+4.9	-0.9	-2.0	+6.4	-1.8	+3.7	+17.1

Table 11. Performance of Wheat Cultivars in Standard Performance Test, Lewisville.

Entry Name	Yield	Test wt	Ldg[a]	Pt ht	Strp rust	Pwd mild	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in	%	%	----bu/A----	
GENESIS R023	75.9	50.5	23	44	5	0		
DELTA KING 7900	74.1	49.0	18	45	1	0	68.8	
AR 839-25-8-2	72.5	50.3	0	40	0	0	62.2	
DELTA KING 1551W	72.4	49.0	21	38	1	0	68.7	68.3
ARMOR 2025	72.3	50.5	11	43	7	2	69.8	65.4
DELTA GROW 4200	72.3	49.5	29	45	2	1		
DIXIE 900	71.6	49.5	10	44	1	4	66.2	65.5
DIXIE X9512	71.1	50.8	28	45	4	1		
HBK X3004	70.9	49.3	28	45	1	1		
F 334W	70.5	52.8	0	42	0	0	66.4	
ARMOR X5222	70.0	49.5	20	46	1	1		
DELTA KING 9410	70.0	50.3	25	42	2	0		
ARMOR X5333	68.0	46.8	30	44	6	0		
PROGENY 188	67.4	46.8	14	38	0	0		
PROGENY 166	67.0	49.8	23	44	1	0		
DELTA KING 9333	67.0	47.8	28	44	1	0	62.7	
AR 839-28-1-2	67.0	50.5	3	42	0	0	63.2	
AGRIPRO NATCHEZ	66.1	45.5	60	42	1	0	62.4	67.3
DIXIE X9212	66.0	48.3	26	42	2	0		
PROGENY 145	65.8	48.5	33	45	3	2		
DIXIE X9312	65.8	46.8	29	44	2	1		
USG 3650	65.1	47.8	6	40	0	0		
PAT	65.0	50.5	4	41	0	0	59.7	61.6
TERRAL TV8565	65.0	48.0	16	44	2	0		
DIXIE X9412	64.9	48.3	15	42	1	0		
PIONEER XW00B	64.8	45.3	18	39	3	0		
TERRAL TV8450	64.5	48.8	35	43	10	0		
HBK X3006	64.4	45.8	4	37	2	0		
TERRAL TVX81466	64.0	47.3	8	40	1	0		
McCORMICK	63.6	50.0	59	37	0	0		
DELTA GROW 7100	63.2	47.0	8	40	0	0		
NK COKER 9152	63.2	49.5	50	44	9	0	61.4	

Table 11. (continued).

Entry Name	Yield	Test wt	Ldg[a]	Pt ht	Strp rust	Pwd mild	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in	%	%	----bu/A----	
ARMOR 3035	62.9	46.5	31	45	2	0	62.4	62.6
PROGENY 133	61.9	47.5	43	44	5	0		
PROGENY 118	61.4	49.3	48	45	2	0		
DIXIE 922	61.1	47.0	40	45	5	0	58.8	60.3
DELTA KING 9216	60.6	41.3	63	42	5	0	57.4	
AR 850-1-1	59.7	48.8	4	37	65	0		
DELTA GROW 4888	59.5	45.5	24	44	2	0	60.6	60.3
AGRIPRO D97-6075-1	58.5	48.5	56	36	1	0		
FFR 521	57.6	42.5	9	36	26	0		
PIONEER BRAND 26R46	57.3	47.3	0	38	10	0	57.8	60.0
AGS 2000	56.8	46.3	8	39	26	0	60.9	70.1
AR 910-9-1	56.7	44.5	19	39	0	0		
GENESIS R024	56.5	45.8	21	40	3	0		
PIONEER 2552	56.4	48.0	4	38	0	0		
SOUTH. STATES SS524	56.2	43.3	6	36	31	0		
TERRAL TV 8555	55.9	47.5	1	35	3	0	63.2	64.8
PIONEER BRAND 26R24	54.8	45.8	15	42	17	0	59.4	66.2
AGRIPRO SAVAGE	54.7	50.0	69	39	2	0		
AR 910-9-2	54.3	43.0	8	40	0	0		
ARMOR 4045	54.2	44.8	43	45	6	9	59.5	58.9
CROPLAN GENET. 517W	54.2	42.3	19	36	54	0		
ARMOR 3235	54.1	44.0	50	41	3	0	58.5	60.2
USG 3209	54.0	47.0	45	35	19	0	57.3	67.9
DIXIE X9611	53.1	46.0	20	40	14	0		
NK COKER 9543	52.6	42.3	24	35	2	0	57.7	56.9
PROGENY 103	52.6	44.3	85	43	0	0	59.5	64.0
USG 3709	52.3	44.5	34	42	36	0	60.0	58.2
SABBE	52.2	45.5	20	42	3	0	57.3	59.8
AR LA85411	52.1	44.0	36	38	0	0	55.9	63.8
DELTA KING 7777	51.7	46.8	55	44	0	1	53.8	
PIONEER BRAND 26R38	51.3	43.3	43	43	55	0	55.8	63.9
NK COKER 9663	51.1	47.3	50	42	33	0	54.1	60.3
HBK 3030	50.7	45.5	21	36	14	0	53.9	
PROGENY 156	50.3	43.5	39	40	2	0	56.2	62.5
LA 90518PB43-3-1-4	49.5	40.8	48	39	0	0	57.7	
DIXIE X9112	49.2	44.0	34	43	5	4		
VA98W-593	48.9	46.5	80	37	9	0	54.3	
DELTA KING 9027	48.3	41.5	70	39	1	0	55.0	60.3
AGRIPRO SHELBY	47.8	47.5	81	40	50	1	51.2	58.5
AGRIPRO PATTON	47.6	44.3	14	39	40	0	53.4	58.3
DELTA GROW 5300	47.0	43.5	78	43	0	0	52.0	
SOUTH. STATES SS 535	46.3	46.5	33	37	26	0	52.6	58.6
FFR 522	45.8	43.8	56	39	16	0	53.7	
LA 9389C37-1	45.6	44.8	0	36	40	0		
SOUTH. STATES SS 522	45.2	45.3	26	39	17	0	55.1	57.1
UGA 90552AE33	45.1	41.8	28	40	51	0		
DELTA KING 9121	44.2	45.5	36	39	11	0	49.2	52.8
UGA 92485E15	43.3	42.3	49	40	68	0		
ROANE	42.5	46.3	68	37	7	0	52.5	64.3
FFR 556	41.1	45.5	90	36	33	0		
LA 90185G3-1-3-4-2	40.6	39.8	43	40	94	0	54.5	

Table 11. (continued).

Entry Name	Yield	Test wt	Ldg[a]	Pt ht	Strp rust	Pwd mild	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in	%	%	----bu/A----	
TERRAL LA422	40.5	42.8	69	39	64	0		
CROPLAN GENET. 554W	39.5	45.3	90	38	29	0	49.1	
SOUTH. STATES SS 518	39.4	39.3	44	36	54	0	53.6	57.4
ARMOR X5212	34.7	46.3	24	40	33	0		
SOUTH. STATES SS520	34.5	43.0	60	39	74	0		
LA 94242D4-2	33.7	43.3	16	38	23	0		
LA 94242D4-4	33.6	39.3	29	40	36	0		
SISSON	29.7	44.3	90	37	94	0		
FFR 510	28.1	39.8	91	39	91	0	58.2	45.8
Grand mean	56.0	46.1	34	40	16	0	57.9	61.7
LSD (5%)	9.6	3.2	31	3	15	3	16.4	14.3
C.V. (%)	12.4	5.0	66	5	67	632	12.5	12.2

Ldg = Lodging Pt ht = Plant height Strp rust = Stripe rust Pwd mild = Powdery mildew

* Appreciation to Mr. Shane Kitchens for allowing this test to be conducted on his farm.

[a] Much of the reporting lodging was 'brackling', a form of lodging where the stem breaks at the top node.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION
BELTSVILLE, MARYLAND 20705

EXHIB
(Whe

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (*Triticum* spp.)

NAME OF APPLICANT(S)
University of Arkansas Agricultural Experiment Station

ADDRESS (*Street and No. or R.F.D. No., City, State, and Zip Code*)
AFLS Building, Room 219
Fayetteville, AR 72701

FOR OFFICIAL USE ONLY

PVPO NUMBER 20020274

VARIETY NAME
Pat

TEMPORARY OR EXPERIMENTAL DESIGNATION
AR 839-27-1-3

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g. [ ][ ][ ] or [ ][ ]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: _____

Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

[1] 1=Common 2=Durum 3=Club 4=Other (SPECIFY) _____

2. VERNALIZATION:

[2] 1=Spring 2=Winter 3=Other (SPECIFY) _____

3. COLEOPTILE ANTHOCYANIN:

[1] 1=Absent 2=Present

4. JUVENILE PLANT GROWTH:

[2] 1=Prostrate 2=Semi-erect 3=Erect

5. PLANT COLOR (boot stage):

[2] 1 = Yellow-Green 2 = Green 3 = Blue-Green

6. FLAG LEAF (boot stage):

[2] 1 = Erect 2 = Recurved [1] 1 = Not Twisted 2 = Twisted

7. EAR EMERGENCE:

[ ][ ] Number of Days Earlier Than _____

[0][2] Number of Days Later Than Roane

8. ANTHER COLOR:

[1] 1 = YELLOW 2 = PURPLE

9. PLANT HEIGHT (from soil to top of head, excluding awns):

[1][0] cm Taller Than Roane

[0][3] cm Shorter Than Coker 9663

2002 00274

10. STEM:

A. ANTHOCYANIN

[1] 1= Absent 2=Present

B. WAXY BLOOM

[1] 1=Absent 2=Present

C. HAIRINESS (last internode of rachis)

[1] 1=Absent 2=Present

D. INTERNODE (SPECIFY NUMBER) 4

[1] 1=Hollow 2=Semi-solid 3=Solid

E. PEDUNCLE

[2] 1=Absent 2=Present

[ ] cm Length

11. HEAD (at Maturity):

A. DENSITY

[2] 1=Lax 2=Middense 3= Dense

B. SHAPE

[ ] 1 = Tapering 2= Strap 3 = Clavate 4 = Other (SPECIFY) Fusiform

C. CURVATURE

[3] 1 = Erect 2 = Inclined 3 = Recurved

D. AWNEDNESS

[4] 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned

12. GLUMES (at Maturity):

A. COLOR

[1] 1 = White 2 = Tan 3 = Other (SPECIFY) _____

B. SHOULDER

[2] 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate

C. BEAK

[3] 1 = Obtuse 2 = Acute 3 =Acuminate

D. LENGTH

[3] 1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)

E. WIDTH

[2] 1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)

13. SEED:

A. SHAPE

[1] 1 = Ovate 2 = Oval 3 = Elliptical

B. CHEEK

[1] 1=Rounded 2=Angular

C. BRUSH

[2] 1=Short 2=Medium 3=Long

[ ] 1 = Not Collared 2 = Collared

D. CREASE

[1] 1 = Width 60% or less of Kernel
2 = Width 80% or less of Kernel
3 = Width Nearly as Wide as Kernel

[2] 1 = Depth 20% or less of Kernel
2 = Depth 35% or less of Kernel
3 = Depth 50% or less of Kernel

MAH 11-18-02

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13. SEED: (continued)

E. COLOR

[3] 1 = White 2 = Amber 3 = Red 4 = Other (SPECIFY) _____

F. TEXTURE

[2] 1=Hard 2=Soft

G. PHENOL REACTION *(see instructions)*:

[?] 1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black

14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

Stem Rust *(Puccinia graminis* f. sp. *tritici)* [0] _____

Stripe Rust *(Puccinia striiformis)* [2] _____

Tan Spot *(Pyrenophora tritici-repentis)* [0] _____

Halo Spot *(Selenophoma donacis)* [0] _____

Septoria nodorum (Glume Blotch) [0] _____

Septoria avenae (Speckled Leaf Disease) [0] _____

Septoria tritici (Speckled Leaf Blotch) [3] _____

Scab (*Fusarium* spp.) [1] _____

"Black Point" (Kernel Smudge) [0] _____

Barley Yellow Dwarf Virus (BYDV) [0] _____

Soilborne Mosaic Virus (SBMV) [2] _____

Wheat Yellow (Spindle Streak) Mosaic Virus [2] _____

Wheat Streak Mosaic Virus (WSMV) [0] _____

Other (SPECIFY) _____ [ ] _____

Other (SPECIFY) _____ [ ] _____

Other (SPECIFY) _____

Leaf Rust *(Puccinia recondita* f. sp. *tritici)* [3] _____

Loose Smut *(Ustilago tritici)* [0] _____

Flag Smut *(Urocystis agropyri)* [0] _____

Common Bunt *(Tilletia tritici* or *T. laevis)* [0] _____

Dwarf Bunt *(Tilletia controversa)* [0] _____

Karnal Bunt *(Tilletia indica)* [0] _____

Powdery Mildew *(Erysiphe graminis* f. sp. *tritici)* [1] _____

"Snow Molds" [0] _____

Common Root Rot *(Fusarium, Cochliobolus* and *Bipolaris* spp.) [0] _____

Rhizoctonia Root Rot *(Rhizoctonia solani)* [0] _____

Black Chaff *(Xanthomonas campestris* pv. *translucens)* [0] _____

Bacterial Leaf Blight *(Pseudomonas syringae* pv. *syringae)* [0] _____

Other (SPECIFY) Fusarium root and crown rot [2] _____

Other (SPECIFY) _____ [ ] _____

Other (SPECIFY) _____ [ ] _____

Other (SPECIFY) _____

2002600274

15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

Hessian Fly *(Mayetiola destructor)*	1	Some resistance to biotype C	
Stem Sawfly *(Cephus* spp.)	0		
Cereal Leaf Beetle *(Oulema melanopa)*	0		
Russian Aphid *(Diuraphis noxia)*	0		
Greenbug *(Schizaphis graminum)*	0		
Aphids	0		

Other (SPECIFY)	
Other (SPECIFY)	
Other (SPECIFY)	
Other (SPECIFY)	
Other (SPECIFY)	
Other (SPECIFY)	

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

EXHIBIT D - MILLING AND BAKING DATA

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

200200274

STD = AVG. OF TWO MASON ENTRIES

LAB NO.	ENTRY	MILLING QUALITY SCORE REGION 1	REGION 2	MEAN	BAKING QUALITY SCORE REGION 1	REGION 2	MEAN
1	Coker 9835	105.5	102.6	104.0	97.8	95.7	96.7
2	Coker 9663	95.7	91.9	93.8	92.0	85.9	89.0
3	Mason	100.6	99.4	100.0	96.3	103.8	100.0
4	AGS2000	105.9	101.7	103.8	101.0	98.2	99.6
5	S9412192	84.3	86.5	85.4	45.9	55.8	50.8
6	LA90518PB43-3-1-4	105.0	101.9	103.5	93.3	102.2	97.7
7	LA90185G3-1-3-4-2	100.0	100.9	100.4	81.2	97.9	89.6
8	VA98W-593	96.2	92.9	94.5	82.0	75.1	78.6
9	NC96-13155	102.5	100.2	101.4	101.3	99.3	100.3
10	NC96-13965	105.8	102.8	104.3	107.1	102.9	105.0
11	B950943	98.1	96.9	97.5	95.5	90.4	93.0
12	TX96D1320	95.2	93.7	94.5	89.0	90.0	89.5
13	TX97D6737	103.2	100.1	101.6	105.0	97.0	101.0
14	TX91-57	93.6	88.9	91.2	82.3	65.4	73.9
15	AR839-27-1-3	103.4	101.2	102.3	98.6	91.9	95.2
16	AR839-25-8-2	102.6	98.0	100.3	97.9	87.2	92.5
17	AR-LA85411	103.5	101.8	102.6	96.3	102.1	99.2
18	LA9397D5-3-3	102.2	101.6	101.9	106.3	102.5	104.4
19	TX98D2106	90.1	91.4	90.8	74.2	81.5	77.8
20	GF90524E1	95.3	92.1	93.7	96.3	91.7	94.0
21	GF92485E15	98.4	97.8	98.1	85.9	89.3	87.6
22	GF921221E16	100.8	95.1	97.9	90.5	98.7	94.6
23	NC96-13156	102.2	99.9	101.0	98.3	98.8	98.6
24	AW-D97-6075	92.7	94.2	93.4	85.9	99.7	92.8
25	AW-D97*6940	101.2	97.4	99.3	84.4	99.6	92.0
26	AW-D97*6961	92.8	93.4	93.1	91.4	99.8	95.6
27	AW-D97-6740	104.8	102.9	103.9	93.9	103.5	98.7
28	VA98W-591	99.4	97.8	98.6	98.5	95.7	97.1
29	VA99W-200	101.4	103.0	102.2	108.0	101.6	104.8
30	VA99W-169	100.3	101.8	101.0	78.2	96.6	87.4
31	TX97-167	102.5	103.3	102.9	79.1	95.8	87.5
32	SC952746	95.5	94.0	94.8	49.7	36.9	43.3
33	SC960057	102.2	99.8	101.0	103.3	102.0	102.7
34	B960208	99.8	97.4	98.6	97.3	97.5	97.4
35	B960457	103.8	103.2	103.5	80.9	97.2	89.0
36	B961378	100.2	97.5	98.9	102.0	95.7	98.9
37	G09088	100.3	102.4	101.3	100.4	101.0	100.7
38	G09091	105.7	104.6	105.1	106.4	98.2	102.3
39	G09080	103.2	103.8	103.5	105.4	97.9	101.6
40	G09138	99.8	100.1	99.9	98.4	99.2	98.8
41	F/G921188E43	97.1	95.5	96.3	63.4	83.8	73.6
42	MDV71-19	102.6	99.4	101.0	84.6	94.0	89.3
43	MDV26-30	93.9	92.8	93.4	77.2	82.3	79.7
	MINIMUM	84.3	86.5	85.4	45.9	36.9	43.3
	MAXIMUM	105.9	104.6	105.1	108.0	103.8	105.0
	MEAN	99.7	98.2	99.0	90.7	92.6	91.7

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055 EXPIRES: 12-31-

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

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)
University of Arkansas
Agricultural Experiment Station

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
AR 839-27-1-3

3. VARIETY NAME
Pat

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
AFLS Building, Room 219
Fayetteville, AR 72701

5. TELEPHONE *(include area code)*
479/575-4750

6. FAX *(include area code)*
479/575-2410

7. PVPO NUMBER 20020274

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? [X] YES [ ] NO
If no, give name of country _____

10. Is the applicant the original breeder? If no, please answer the following: [X] YES [ ] NO

a. If original rights to variety were owned by individual(s):
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country _____
[ ] YES [ ] NO

b. If original rights to variety were owned by a company:
Is the original breeder(s) U.S. based company? If no, give name of country _____

11. Additional explantion on ownership *(If needed, use reverse for extra space):*

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 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 Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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