No. 9600156

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 [illegible]ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE [illegible]SES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED [illegible]PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL [illegible] VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GE[illegible] SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Jaypee'

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 thirtieth day of June in the year of our Lord one thousand nine hundred and ninety-nine.

Attest:

Acting 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 DIVISION - 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).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
University of Arkansas
Agricultural Experiment Station

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
AR 26158-4

3. VARIETY NAME
JAYPEE

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
Agriculture Building, Room 205
Fayetteville, AR 72701

5. TELEPHONE *(include area code)*
(501) 575-5725

6. FAX *(include area code)*
(501) 575-7465

FOR OFFICIAL USE ONLY
PVPO NUMBER 9600156
FILING DATE 3-13-96
FEES RECEIVED
FILING AND EXAMINATION FEE $ 2450.00
DATE 3-13-96
CERTIFICATION FEE $ 300.00
DATE 3/25/99

7. GENUS AND SPECIES NAME
Triticum aestivm

8. FAMILY NAME *(Botanical)*
Gramineae

9. CROP KIND NAME *(Common name)*
Wheat, Common

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)* *(Common name)*
University of Arkansas Agricultural Experiment Station

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

12. DATE OF INCORPORATION

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Dr. Robert Bacon
University of Arkansas
115 Plant Science Building
Fayetteville AR 72701

14. TELEPHONE *(include area code)*
(501) 575-5725

15. FAX *(include area code)*
(501) 575-7465

16. 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 the Variety
- d. ☒ Exhibit D. Additional Description of the Variety
- e. ☒ Exhibit E. Statement of the Basis of the Applicant'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 a public repository)*
- g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)?*
☒ YES *(If "yes," answer items 18 and 19 below)* ☐ NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☒ FOUNDATION ☐ REGISTERED ☒ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES *(If "yes," give names of countries and dates)* ☐ NO
Foundation seed was sold to seed producers in Arkansas in the Fall of 1995

21. The applicant(s) 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 applicant(s) is(are) the owner(s) 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 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

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

SIGNATURE OF APPLICANT *(Owner(s))*
2.28.96
NAME *(Please print or type)*
C. J. Scifres
CAPACITY OR TITLE
Dean and Associate Vice President for Agriculture
DATE 2.29.96

SIGNATURE OF APPLICANT *(Owner(s))*
NAME *(Please print or type)*
CAPACITY OR TITLE
DATE

SD-470 (04-96) *(Previous editions are to be destroyed)* *(See reverse for instructions and information collection burden statement)*

INSTRUCTIONS

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) at least 2,500 viable untreated seeds, 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 a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for $2,450 ($300 filing fee and $2,150 examination fee), payable to "Treasurer of the United States" *(See Section 97.175 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Blvd., 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 $300 for issuance of the Certificate.

Plant Variety Protection Office
Telephone: (301) 504-5518

ITEM

16a. 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.

16b. 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;

(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

16d. 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.

16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.

17. 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 labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. *(See P.L. 103-349 for additional information.)*

20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

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 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 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 Regulations and Rules of Practice.)*

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0581-0055), Washington, DC 20503.

16A. Exhibit A: Origin and Breeding History of Jaypee

Pedigree: Arthur 6/AR 39-3

'Jaypee' was developed from a cross of Arthur 6/AR 39-3. Arthur 6 was later released as Doublecrop. AR 39-3 was an Arkansas breeding line selected from the cross Arthur/973; 973 was a germplasm line from Yugoslavia with the parentage Forlani/Garibaldino. (No information is known about the cultivar Garibaldino). The original selection (AR 26158) was made from a single head from an F_3 bulk. Due to heterogeneity in AR 26158, single head selections were made in the F_{13} generation. Selection was based on maturity, resistance to leaf rust, and test weight.

Jaypee (AR 26158-4) was tested in the Arkansas Small-Grain performance Trials in 1993-94 and in 1994-95. It was also tested in the Uniform Southern and Uniform Eastern Soft Red Winter Wheat regional trials in 1994-95. Jaypee has appeared stable and uniform for 7 generations. The most common variant is tall plants (approximately 6 inches taller) which occur at a frequency of approximately 0.15%. Other variants include awned spikes at a frequency of approximately 0.02% and tall plants with awned spikes also at a frequency of approximately 0.02%.

16B. Exhibit B: Statement of Distinctness

'Jaypee' is most similar to 'Coker 9543' in appearance. Both are approximately 79 cm tall and have a plant color of 147A (as referenced by the Royal Horticultural Society Color Chart). At maturity, spikes are apically awnletted with white glumes. The glumes of Jaypee have acuminate beaks and wanting shoulders whereas the glumes of Coker 9543 have acute beaks and rounded shoulders. The most distinguishing feature between Jaypee and Coker 9543 is heading date. Under Arkansas conditions Jaypee will head approximately 4 days earlier than Coker 9543. This is shown by a significant difference according to the LSD test at the 0.05 probability level in 11 of 12 tests in the 1994-1995 Arkansas Small-Grain Cultivar Performance Tests. (Report is included; see pages 7-30)

Summary of the Exhibit B. Tables for 'Jaypee'

Table Number	Head Date Δ
Table 3.	+3
Table 4.	+3
Table 5.	+3
Table 6.	+4
Table 7.	+3
Table 8.	+3
Table 9.	+4
Table 10.	+6
Table 11.	+5
Table 12.	+6
Table 13.	+3
Table 14.	+3

KEY:
+ = # days earlier
- = # days later

Table 2. Summary of wheat yields in the High Input Tests at six locations.

	Keiser	Kibler	Marianna	Rohwer	Stuttgart	Hope
	bu/A					
AGRA TECH 91W	47.8	77.7	69.6	46.1	77.1	74.3
AGRA TECH FFR 525	50.9	62.5	91.2	55.9	96.3	51.9
AGRIPRO 91D-2308	56.9	71.7	78.3	51.8	83.6	66.5
AGRIPRO CLEMENS	63.7	68.1	83.1	53.0	93.8	65.1
AGRIPRO HICKORY	53.9	71.4	81.6	45.3	90.7	66.8
AGRIPRO MALLARD	61.1	74.7	77.3	60.8	86.4	70.3
AGRIPRO SAWYER	55.5	73.1	77.4	51.3	87.1	62.7
AGRIPRO SHILOH	57.3	67.3	79.6	52.6	84.6	59.3
AR 26158-4	62.4	68.0	76.3	55.3	96.6	62.3
AR 361A-9-1	56.9	62.9	72.3	46.9	75.4	45.7
AR 369-6-2	48.4	64.4	79.6	44.7	85.4	45.8
AR 370-2-1	48.2	71.0	80.0	51.4	87.6	60.2
AR 536-1	57.1	79.5	72.4	50.6	81.3	59.4
BUCKSHOT'S DS2368	34.6	67.4	88.4	52.2	90.0	73.2
CARDINAL	41.1	70.9	55.0	39.3	68.8	53.6
EK 114	56.1	72.6	85.3	55.9	94.1	69.4
ERNIE	50.0	65.0	72.2	50.8	95.2	64.8
FLORIDA 302	33.4	68.6	88.4	55.0	99.2	66.5
FLORIDA 304	49.6	67.1	77.4	52.4	89.5	69.5
FREEDOM	43.3	66.9	66.3	47.8	82.5	49.0
GA 84414	40.0	76.5	81.6	60.8	87.2	67.8
GA ANDY	28.9	40.8	62.6	46.6	85.5	39.2
GA DOZIER	51.9	71.3	74.3	50.9	85.4	74.4
GA GORE	38.7	59.2	70.3	44.7	83.3	27.7
GA MOREY	41.1	68.2	67.4	53.9	92.9	67.3
GA STUCKEY	55.8	51.2	71.6	49.4	94.7	39.4
HARTZ VARIETY HX3301	49.2	71.8	81.9	55.7	96.3	71.6
HAZEN	46.6	82.6	84.9	53.1	89.0	65.0
JACKSON	56.5	81.5	93.5	52.8	99.0	74.8
MADISON	52.5	61.7	75.0	43.5	84.7	55.1
MO 12258	50.3	72.0	82.9	59.4	91.2	61.5
NK COKER 9134	50.3	67.6	97.4	60.0	103.6	70.2
NK COKER 9474	51.3	68.8	70.0	42.6	74.3	69.5
NK COKER 9543	61.7	75.2	80.4	55.8	100.3	63.7
NK COKER 9803	59.4	84.0	89.8	56.3	91.3	75.1
NK COKER 9835	46.0	79.6	82.5	52.5	99.5	70.0
PIONEER VARIETY 2566	57.7	72.6	76.0	58.0	86.3	69.0
PIONEER VARIETY 2580	64.7	80.3	88.4	54.5	101.7	87.1
PIONEER VARIETY 2628	60.9	70.0	80.3	56.0	99.4	77.3
PIONEER VARIETY 2643	64.0	81.4	85.8	50.1	91.2	78.3
PIONEER VARIETY 2684	67.8	83.3	91.8	52.4	102.8	78.2
PIONEER XW631	49.8	86.3	87.0	52.7	91.2	72.2
SMOKER	48.2	63.4	69.2	45.6	68.2	55.5
STINE EXP 901	63.2	58.8	63.3	44.0	82.0	58.0
STINE EXP 902	66.0	80.9	76.1	55.3	88.6	68.6
STINE EXP 903	46.9	57.7	66.3	49.4	79.6	49.1
TERRAL 101	54.3	60.4	76.5	54.6	86.8	56.7
TERRAL 1011	55.5	67.1	79.5	52.9	87.8	56.3
TERRAL TV 8825	62.7	73.9	88.3	49.8	96.0	65.7
TERRAL TVX 8555	57.0	78.4	86.5	52.6	82.8	67.6
TRACKER	64.4	79.6	78.8	55.4	82.8	65.4
TRICAL 498	83.7	91.3	89.2	51.6	96.6	79.6
WAKEFIELD	53.9	72.5	71.4	44.9	90.3	71.5
Grand mean	53.5	71.2	78.9	51.7	89.0	63.9
LSD (5%)	10.5	10.0	9.7	7.5	8.6	14.9
C.V. (%)	14.2	10.1	8.9	10.5	7.0	16.9

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

Soil series....Sharkey silty clay
Previous crop....Soybean
Preplant fertilizer....None
Planting date....October 28, 1994
Topdress # 1....100 lbs/A N on February 23, 1995
Topdress # 2....50 lbs/A N on March 13, 1995
Herbicide application(s)....59 oz/A Hoelon on March 16, 1995
½ oz/A Harmony Extra on March 22, 1995
Fungicide application(s)....None
Insecticide application(s)....None
Harvest date....June 14, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	3.0	5.9	4.6	1.4	1.4	5.8	4.5	29.4
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	+0.4	-1.1	+1.2	+1.2	-1.6	-3.4	+0.7	-0.8	-3.4

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

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	---bu/A---	
PIONEER VARIETY 2684	68.6	59.4	8	31	4-14	5-24	0	72.0	70.2
AR 2615B-1	67.8	59.2	3	30	4-13	5-21	0	76.6	
PIONEER VARIETY 2643	67.1	57.5	8	29	4-16	5-25	0	75.6	
PIONEER VARIETY 2580	66.9	58.4	0	32	4-17	5-26	2	78.5	72.7
TERRAL TVX 8555	66.6	57.7	3	29	4-17	5-24	0		
NK COKER 9835	65.8	56.1	3	29	4-17	5-26	0	67.1	67.2
STINE EXP 902	65.4	55.7	5	34	4-17	5-27	2		
TERRAL 1011	65.3	54.7	3	34	4-18	5-28	0	72.1	69.4
AGRIPRO SHILOH	64.9	57.2	8	29	4-19	5-25	0	73.3	
TRACKER	64.7	55.7	0	34	4-16	5-26	2		
AGRIPRO 91D-2308	64.7	58.1	5	33	4-15	5-22	0		
TERRAL TV 8825	63.3	56.1	13	33	4-18	5-26	1	72.0	71.4
NK COKER 9513	62.1	57.5	8	30	4-16	5-24	1	69.4	68.5
AR 361A-9-1	61.7	58.5	10	31	4-17	5-26	0	67.0	
AGRIPRO MALLARD	61.5	54.9	8	30	4-17	5-25	0	66.8	65.7
AGRIPRO CLEMENS	60.1	57.3	18	35	4-22	5-29	0		
MADISON	59.4	55.3	8	31	4-16	5-23	3	68.0	66.7
STINE EXP 901	58.9	57.0	3	34	4-16	5-24	3		
NK COKER 9134	58.7	58.3	15	32	4-19	5-25	0	64.3	
GA DOZIER	58.6	58.4	5	29	4-17	5-24	0		
PIONEER VARIETY 2628	58.1	57.8	5	30	4-19	5-28	1	72.1	
AR 370-2-1	57.6	55.8	10	30	4-15	5-24	0	71.0	
AR 369-6-2	57.6	55.6	10	29	4-15	5-23	0		
TERRAL 101	56.5	55.0	30	35	4-20	5-26	0	68.0	66.2
FLORIDA 304	56.5	58.5	0	32	4-11	5-21	0	61.9	60.4
PIONEER XW631	56.4	56.6	5	30	4-11	5-21	1		
NK COKER 9474	55.6	58.4	0	29	4-16	5-25	0	64.9	
NK COKER 9803	55.6	57.6	25	32	4-17	5-24	0	63.9	63.0
STINE EXP 903	55.3	54.4	0	30	4-16	5-25	2		
JACKSON	54.6	58.0	15	32	4-18	5-26	9	64.7	64.3
AGRIPRO HICKORY	54.2	58.2	23	34	4-15	5-23	0	65.6	65.3
AR 536-1	53.7	56.9	0	32	4-17	5-27	0		
AGRA TECH 91W	53.4	56.2	5	31	4-17	5-27	2	68.4	67.5
AGRIPRO SAWYER	52.5	53.8	8	30	4-17	5-26	1	70.9	68.8

Table 3. Continued

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	---bu/A---	
PIONEER VARIETY 2566	52.2	55.1	18	31	14-14	5-27	0	68.9	
GA MOREY	51.9	57.3	0	31	4-11	5-19	0		
EK 114	51.6	53.2	25	32	4-19	5-28	11	63.4	
BUCKSHOT'S DS2368	51.4	58.2	5	30	4-14	5-22	1	57.2	57.0
WAKEFIELD	51.3	56.0	10	34	4-18	5-26	3	62.6	61.4
GA STUCKEY	51.2	56.1	5	30	4-13	5-21	2		
HARTZ VARIETY HX3301	50.7	53.0	25	32	4-18	5-26	13		
HAZEN	50.5	55.1	5	30	4-20	5-26	2	60.0	61.5
ERNIE	50.4	57.2	15	29	4-15	5-23	2	62.6	
MO 12258	49.8	55.6	10	29	4-18	5-27	2		
FREEDOM	48.6	55.0	8	32	4-21	5-29	0	61.3	
GA 84414	44.7	58.4	10	28	4-17	5-24	0		
GA GORE	43.5	58.2	18	29	4-16	5-23	1	52.8	54.7
SMOKER	43.3	52.5	28	35	4-24	6-02	50		
AGRA TECH FFR 525	39.8	56.8	35	32	4-17	5-24	9	55.6	58.8
CARDINAL	36.0	53.5	38	37	4-23	5-30	19	53.9	56.8
FLORIDA 302	31.6	53.7	23	31	4-20	5-30	9	53.7	54.8
GA ANDY	17.4*	53.7	0	29	4-12	5-18	1	45.8	51.3
TRICAL 498	84.7	50.1	3	38	4-08	5-21	1		
Grand mean	55.9	56.3	10	31	4-17	5-25	3		
LSD (5%)	10.4	1.6	18	2	2	2	4		
C.V. (%)	13.5	2.0	131	4	3	1	86		

Ldg = Lodging
Pt ht = Plant height
Leaf rust ratings were made April 26 (watery ripe stage)
* Yields were reduced by bird damage

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

Soil series....Sharkey silty clay
Previous crop....Soybean
Preplant fertilizer....None
Planting date....October 28, 1994
Topdress # 1....100 lbs/A N on February 23, 1995
Topdress # 2....100 lbs/A N on March 13, 1995
Herbicide application(s)....59 oz/A Hoelon on March 16, 1995
½ oz/A Harmony Extra on March 22, 1995
Fungicide application(s)....4 oz/A Tilt on April 4, 1995
Insecticide application(s)....None
Harvest date....June 14, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	3.0	5.9	4.6	1.4	1.4	5.8	4.5	29.4
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	+0.4	-1.1	+1.2	+1.2	-1.6	-3.4	+0.7	-0.8	-3.4

Table 4. Performance of Wheat Cultivars in High Input 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----	
PIONEER VARIETY 2684	67.8	59.8	0	30	4-15	5-23	81.4	77.6
STINE EXP 902	66.0	57.3	0	31	4-16	5-25		
PIONEER VARIETY 2580	64.7	58.2	0	30	4-18	5-26	81.1	79.8
TRACKER	64.4	57.5	0	31	4-17	5-26		
PIONEER VARIETY 2643	64.0	57.5	0	27	4-16	5-25	80.3	
AGRIPRO CLEMENS	63.7	58.7	3	34	4-20	5-30		
STINE EXP 901	63.2	58.1	0	34	4-16	5-24		
TERRAL TV 8825	62.7	56.6	0	33	4-19	5-27	78.6	77.6
[redacted]	62.4	58.9	10	30	[redacted]	[redacted]	79.8	
[redacted]	61.7	57.8	10	29	[redacted]	[redacted]	75.6	77.1
AGRIPRO MALLARD	61.1	56.3	3	28	4-17	5-26	71.4	72.5
PIONEER VARIETY 2628	60.9	58.6	0	30	4-19	5-28	69.2	
NK COKER 9803	59.4	59.4	3	29	4-16	5-23	70.0	70.9
PIONEER VARIETY 2566	57.7	55.9	10	29	4-18	5-27	72.2	
AGRIPRO SHILOH	57.3	57.0	0	29	4-19	5-26	75.4	
AR 536-1	57.1	57.8	0	32	4-17	5-29		
TERRAL TVX 8555	57.0	57.5	0	27	4-18	5-25		
AR 361A-9-1	56.9	57.9	8	30	4-18	5-27	71.7	
AGRIPRO 91D-2308	56.9	57.2	3	32	4-15	5-17		
JACKSON	56.5	59.1	5	30	4-19	5-27	71.6	71.4
EK 114	56.1	56.8	3	31	4-19	5-28	70.0	
GA STUCKEY	55.8	57.1	5	29	4-15	5-22		
TERRAL 1011	55.5	55.2	0	32	4-19	5-26	72.0	72.4
AGRIPRO SAWYER	55.5	55.0	0	30	4-16	5-24	70.1	70.2
TERRAL 101	54.3	54.7	5	34	4-19	5-28	73.6	74.2
AGRIPRO HICKORY	53.9	58.4	8	32	4-16	5-23	64.0	66.4
WAKEFIELD	53.9	57.8	8	32	4-19	5-26	70.0	69.5
MADISON	52.5	56.3	5	30	4-16	5-23	74.0	74.1
GA DOZIER	51.9	58.5	0	28	4-17	5-26		
NK COKER 9474	51.3	57.9	0	27	4-17	5-23	67.5	
AGRA TECH FFR 525	50.9	58.7	15	31	4-17	5-23	66.9	67.9
MO 12258	50.3	56.8	0	27	4-17	5-25		
NK COKER 9134	50.3	58.2	3	29	4-18	5-26	68.7	
ERNIE	50.0	58.3	5	29	4-15	5-22	63.6	

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Table 4. 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----	
PIONEER XW631	49.8	57.0	0	28	4-12	5-21		
FLORIDA 304	49.6	58.5	0	30	4-14	5-23	61.8	63.7
HARTZ VARIETY HX3301	49.2	56.9	0	28	4-19	5-27		
AR 369-6-2	48.4	55.5	10	27	4-14	5-22		
SMOKER	48.2	55.7	8	35	4-25	6-02		
AR 370-2-1	48.2	55.8	13	29	4-16	5-24	71.3	
AGRA TECH 91W	47.8	57.3	0	29	4-17	5-24	67.8	69.9
STINE EXP 903	46.9	53.8	3	28	4-17	5-24		
HAZEN	46.6	57.1	0	29	4-22	5-29	67.9	69.5
NK COKER 9835	46.0	56.3	8	30	4-16	5-26	67.4	69.9
FREEDOM	43.3	54.7	3	30	4-19	5-28	65.5	
GA MOREY	41.1	57.0	3	28	4-13	5-18		
CARDINAL	41.1	55.4	3	33	4-23	5-30	62.1	67.3
GA 84414	40.0	59.6	5	27	4-17	5-24		
GA GORE	38.7	57.7	8	28	4-15	5-22	59.3	61.4
BUCKSHOT'S DS2368	34.6	58.1	0	28	4-14	5-22	52.8	57.0
FLORIDA 302	33.4	56.4	13	31	4-20	5-29	55.9	60.3
GA ANDY	28.9	54.3	5	28	4-13	5-19	49.8	57.3
TRICAL 498	83.7	50.8	5	36	4-08	5-20		
Grand mean	53.5	57.1	4	30	4-17	5-25		
LSD (5%)	10.5	1.2	9	2	1	2		
C.V. (%)	14.2	1.6	180	5	2	2		

Ldg = Lodging
Pt ht = Plant height

STANDARD INPUT WHEAT TEST
VEGETABLE SUBSTATION, KIBLER, AR

Soil series....Roxanna silt loam
Previous crop....Fallow
Preplant fertilizer....None
Planting date....October 25, 1994
Topdress # 1....60 lbs/A N + 15 lbs/A S on February 25, 1994
Herbicide application(s)....None
Fungicide application(s)....None
Insecticide application(s)....4 oz/A Disyston on March 17, 1995
Harvest date....June 9, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	3.2	13.9	3.4	3.5	0.8	2.2	5.6	6.4	39.0
Normal	3.3	3.2	2.8	2.4	2.7	3.9	4.2	4.6	27.1
Departure	-0.1	+10.7	+0.6	+1.1	-1.9	-1.7	+1.4	+1.8	+11.9

Table 5. Performance of Wheat Cultivars in Standard Input Test, Kibler.

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----	
PIONEER XW631	83.9	57.1	3	34	4-10	5-29		
NK COKER 9803	79.9	59.3	4	33	4-13	5-28	73.3	70.3
PIONEER VARIETY 2684	78.0	59.0	3	36	4-11	5-30	83.0	78.6
MO 12258	74.7	57.5	15	38	4-16	5-31		
PIONEER VARIETY 2643	73.6	57.3	0	32	4-14	5-31	77.2	
GA MOREY	73.5	56.8	0	35	4-10	5-29		
NK COKER 9835	72.9	55.5	0	32	4-14	6-01	75.5	69.3
STINE EXP 902	72.4	57.5	13	37	4-16	5-30		
HAZEN	72.3	57.3	0	38	4-17	5-31	74.2	67.7
AGRIPRO 91D-2308	72.3	58.6	6	38	4-13	5-28		
AGRIPRO MALLARD	70.1	55.1	3	33	4-15	6-02	71.4	65.2
TERRAL TV 8825	69.4	55.4	21	39	4-18	6-02	71.6	64.6
NK COKER 9474	69.2	60.2	4	36	4-17	5-30	72.8	
PIONEER VARIETY 2628	69.0	56.8	9	36	4-16	5-30	74.5	
AGRA TECH 91W	68.9	56.0	3	36	4-16	5-30	75.3	70.4
PIONEER VARIETY 2580	68.5	55.7	11	37	4-13	5-29	77.7	73.1
GA 84414	68.4	57.7	5	36	4-14	5-30		
AGRIPRO SAWYER	68.1	54.5	15	36	4-16	5-28	74.2	69.0
PIONEER VARIETY 2566	67.5	56.3	3	37	4-16	6-01	71.3	
AGRIPRO SHILOH	67.0	56.5	9	34	4-18	5-31	73.8	
AR 26158-4	66.6	57.8	13	36	4-10	5-27	77.6	
HARTZ VARIETY HX3301	65.4	53.0	25	37	4-16	5-31		
AR 369-6-2	65.3	56.0	6	37	4-14	5-30		
AR 536-1	64.6	55.8	10	37	4-16	6-01		
TRACKER	63.4	56.4	8	40	4-16	5-31		
GA DOZIER	63.3	56.6	6	35	4-17	5-29		
WAKEFIELD	63.0	55.5	14	39	4-17	5-31	67.2	65.8
FLORIDA 304	63.0	57.7	11	37	4-12	5-29	72.1	68.4
AGRIPRO CLEMENS	62.4	57.3	20	40	4-19	6-02		
TERRAL TVX 8555	61.9	57.9	3	35	4-17	5-30		
NK COKER 9543	61.7	56.5	20	37	4-13	5-29	61.7	60.7
AGRIPRO HICKORY	61.6	57.9	5	37	4-14	5-27	71.3	71.2
JACKSON	61.4	57.1	24	38	4-16	5-29	71.6	64.8
NK COKER 9134	61.3	56.5	29	39	4-14	5-30	72.7	
AR 370-2-1	60.7	54.9	0	37	4-16	5-28	68.4	
TERRAL 1011	60.5	54.2	14	39	4-18	5-31	64.6	61.8

Table 5. 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----	
EK 114	58.9	53.0	10	37	4-16	5-30	68.7	
ERNIE	58.7	57.0	11	37	4-13	5-28	76.8	
FREEDOM	58.4	54.8	5	39	4-19	6-03	66.4	
MADISON	57.9	56.4	14	37	4-14	5-29	72.7	73.1
CARDINAL	57.3	54.9	14	41	4-19	6-02	64.6	60.6
GA STUCKEY	56.3	56.7	28	35	4-11	5-28		
AR 361A-9-1	55.9	57.2	11	36	4-17	5-29	65.2	
AGRA TECH FFR 525	55.8	59.0	23	37	4-14	5-29	71.4	69.5
STINE EXP 903	54.1	56.1	20	40	4-14	5-30		
TERRAL 101	53.8	54.5	15	39	4-18	5-31	57.9	51.8
BUCKSHOT'S DS2368	52.6	57.3	20	35	4-11	5-29	58.8	56.4
FLORIDA 302	49.3	53.0	19	38	4-15	5-30	62.9	55.7
GA ANDY	43.2	55.9	6	36	4-09	5-29	56.9	54.8
STINE EXP 901	43.0	55.4	10	38	4-16	5-31		
GA GORE	35.9	57.2	4	34	4-11	5-28	52.3	58.5
SMOKER	34.9	52.7	23	38	4-19	6-04		
TRICAL 498	81.7	48.6	5	42	4-06	5-31		
Grand mean	63.2	56.2	11	37	4-15	5-30		
LSD (5%)	11.7	1.6	16	3	2	3		
C.V. (%)	13.3	2.1	106	5	3	2		

Ldg = Lodging
Pt ht = Plant height

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HIGH INPUT WHEAT TEST
VEGETABLE SUBSTATION, KIBLER, AR

Soil series....Roxanna silt loam
Previous crop....Fallow
Preplant fertilizer....None
Planting date....October 25, 1994
Topdress # 1....90 lbs/A N + 15 lbs/A S on February 25, 1994
Herbicide application(s)....None
Fungicide application(s)....4 oz/A Tilt on April 6, 1995
Insecticide application(s)....4 oz/A Disyston on March 17, 1995
Harvest date....June 9, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	3.2	13.9	3.4	3.5	0.8	2.2	5.6	6.4	39.0
Normal	3.3	3.2	2.8	2.4	2.7	3.9	4.2	4.6	27.1
Departure	-0.1	+10.7	+0.6	+1.1	-1.9	-1.7	+1.4	+1.8	+11.9

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

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---	
PIONEER XW631	86.3	57.7	1	35	4-10	5-29		
NK COKER 9803	84.0	60.4	5	37	4-14	5-29	74.4	74.2
PIONEER VARIETY 2684	83.3	60.0	8	38	4-11	5-29	80.7	80.0
HAZEN	82.6	57.4	1	38	4-17	5-28	82.2	79.7
JACKSON	81.5	57.9	25	37	4-16	5-28	79.8	74.1
PIONEER VARIETY 2643	81.4	57.7	0	37	4-13	5-30	78.1	
STINE EXP 902	80.9	59.1	4	40	4-16	5-30		
PIONEER VARIETY 2580	80.3	57.1	13	37	4-14	5-28	80.8	77.4
TRACKER	79.6	58.0	5	39	4-16	6-01		
NK COKER 9835	79.6	56.2	3	33	4-14	5-29	74.7	70.7
AR 536-1	79.5	57.4	14	39	4-16	6-02		
TERRAL TVX 8555	78.4	58.1	1	37	4-17	5-30		
AGRA TECH 91W	77.7	56.4	5	37	4-16	5-28	83.0	76.3
GA 84414	76.5	60.1	8	38	4-14	5-28		
NK COKER 9543	75.2	57.5	11	35	4-14	5-29	65.7	63.9
AGRIPRO MALLARD	74.7	55.8	5	34	4-17	5-29	70.4	66.8
TERRAL TV 8825	73.9	56.4	18	39	4-16	5-30	72.3	66.8
AGRIPRO SAWYER	73.1	55.8	10	37	4-17	5-30	75.2	73.4
EK 114	72.6	56.3	21	38	4-16	5-29	79.2	
PIONEER VARIETY 2566	72.6	57.0	11	38	4-18	5-30	72.9	
WAKEFIELD	72.5	56.2	10	38	4-18	5-30	72.3	71.5
MO 12258	72.0	58.4	39	39	4-17	5-30		
HARTZ VARIETY HX3301	71.8	56.4	18	37	4-15	5-31		
AGRIPRO 91D-2308	71.7	59.3	3	38	4-13	5-30		
AGRIPRO HICKORY	71.4	58.4	15	40	4-14	5-29	73.1	73.3
GA DOZIER	71.3	58.2	1	36	4-17	5-29		
AR 370-2-1	71.0	57.1	5	36	4-15	5-28	72.2	
CARDINAL	70.9	57.1	13	39	4-19	6-01	71.5	68.6
PIONEER VARIETY 2628	70.0	58.2	11	37	4-16	5-31	73.2	
NK COKER 9474	68.8	60.8	11	37	4-16	5-29	69.7	
FLORIDA 302	68.6	55.7	10	38	4-14	5-30	73.2	67.3
GA MOREY	68.2	56.0	0	38	4-10	5-29		
AGRIPRO CLEMENS	68.1	58.3	15	42	4-19	6-04		
AR 26158-4	68.0	58.8	9	35	4-10	5-28	76.3	
NK COKER 9134	67.6	57.4	40	39	4-16	5-29	77.5	
BUCKSHOT'S DS2368	67.4	57.9	10	36	4-11	5-28	67.7	66.8

Table 6. 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----	
AGRIPRO SHILOH	67.3	56.3	11	37	4-17	5-30	69.2	
TERRAL 1011	67.1	54.5	18	39	4-17	5-31	63.1	57.5
FLORIDA 304	67.1	58.2	15	41	4-14	5-28	71.7	67.4
FREEDOM	66.9	56.0	3	38	4-18	6-03	66.5	
ERNIE	65.0	57.2	15	36	4-14	5-29	79.7	
AR 369-6-2	64.4	57.2	0	37	4-13	5-30		
SMOKER	63.4	56.0	6	40	4-19	6-05		
AR 361A-9-1	62.9	57.8	19	35	4-17	5-29	63.6	
AGRA TECH FFR 525	62.5	59.9	19	40	4-14	5-28	72.8	73.3
MADISON	61.7	56.6	19	39	4-14	5-29	73.5	75.6
TERRAL 101	60.4	54.6	15	39	4-18	5-30	61.5	58.9
GA GORE	59.2	57.6	1	38	4-12	5-27	63.6	67.1
STINE EXP 901	58.8	58.1	15	40	4-15	5-30		
STINE EXP 903	57.7	57.1	31	40	4-14	5-30		
GA STUCKEY	51.2	55.5	35	35	4-13	5-29		
GA ANDY	40.8	57.4	4	35	4-09	5-28	52.0	58.0
TRICAL 498	91.3	48.7	10	43	4-05	5-31		
Grand mean	71.2	57.3	11	38	4-15	5-30		
LSD (5%)	10.0	0.9	15	3	2	3		
C.V. (%)	10.1	1.2	93	6	3	2		

Ldg = Lodging
Pt ht = Plant height

STANDARD INPUT WHEAT TEST
COTTON BRANCH STATION, MARIANNA, AR

Soil series....Loring silt loam
Previous crop....Soybean
Preplant fertilizer....200 lbs/A 0-18-36
Planting date....October 20, 1994
Topdress # 1....60 lbs/A N on February 22, 1995
Topdress # 2....40 lbs/A N on March 16, 1995
Herbicide application(s)....½ oz/A Harmony Extra on March 16, 1995
Fungicide application(s)....None
Harvest date....June 13, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	1.8	3.1	3.6	4.8	1.9	1.7	4.8	3.6	25.3
Normal	3.0	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	-1.2	-1.3	-1.2	+0.4	-2.2	-3.7	-0.7	-1.6	-11.5

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

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	---bu/A---	
PIONEER VARIETY 2580	89.2	55.4	0	38	4-14	5-19	0	85.3	81.2
TERRAL TV 8825	88.2	57.4	0	39	4-12	5-17	4	82.8	75.6
NK COKER 9835	88.1	56.0	0	32	4-08	5-14	5	83.5	75.3
NK COKER 9803	87.9	58.6	0	37	4-13	5-14	0	80.9	75.6
AGRA TECH FFR 525	87.4	58.4	0	38	4-10	5-15	1	84.7	79.8
PIONEER XW631	86.2	56.7	0	33	4-06	5-15	1		
NK COKER 9543	85.1	56.6	0	34	4-13	5-18	2	82.0	74.8
PIONEER VARIETY 2684	85.0	58.0	0	35	4-09	5-14	0	81.1	75.6
PIONEER VARIETY 2643	84.5	57.0	0	32	4-12	5-17	0	81.7	
AR 26158-2	84.5	58.1	0	34	4-10	5-15	0	86.1	
BUCKSHOT'S DS2368	84.3	57.5	0	37	4-07	5-13	3	75.4	68.4
NK COKER 9134	84.3	56.3	0	40	4-14	5-17	0	85.9	
AGRIPRO 91D-2308	84.3	56.7	0	37	4-06	5-13	3		
PIONEER VARIETY 2566	82.4	54.5	0	37	4-17	5-22	0	80.7	
TERRAL TVX 8555	82.1	55.5	0	36	4-14	5-19	0		
AGRIPRO CLEMENS	81.7	57.2	0	43	4-18	5-23	0		
AGRIPRO MALLARD	81.4	54.7	0	36	4-17	5-22	0	80.6	79.7
AGRIPRO HICKORY	80.1	57.7	0	38	4-12	5-17	0	83.5	83.7
MO 12258	79.9	55.9	0	35	4-15	5-21	0		
AR 361A-9-1	79.7	57.9	0	36	4-17	5-18	0	76.4	
GA GORE	79.0	56.4	0	38	4-10	5-16	1	82.0	79.2
FLORIDA 302	78.7	55.5	0	40	4-10	5-18	4	79.1	75.5
JACKSON	78.6	56.4	0	38	4-15	5-19	0	82.6	81.7
GA 84414	78.4	58.1	0	36	4-12	5-17	0		
PIONEER VARIETY 2628	77.3	56.1	0	38	4-15	5-21	0	79.3	
HAZEN	77.0	55.8	0	38	4-17	5-22	0	77.1	73.9
FLORIDA 304	76.9	57.0	0	38	4-11	5-15	5	80.7	68.5
TERRAL 101	76.5	55.0	0	41	4-16	5-20	0	79.0	78.1
TRACKER	76.1	55.2	0	39	4-15	5-21	0		
GA STUCKEY	75.2	56.1	0	33	4-06	5-13	5		
AR 536-1	75.1	56.6	0	37	4-14	5-23	1		
FREEDOM	74.8	54.3	0	39	4-17	5-22	0	77.2	
TERRAL 1011	74.4	54.9	0	41	4-16	5-21	0	74.9	71.6
HARTZ VARIETY HX3301	74.1	55.1	0	39	4-16	5-21	0		
AR 370-2-1	74.0	55.8	0	33	4-10	5-16	1	78.1	
NK COKER 9474	74.0	57.7	0	35	4-15	5-18	0	75.0	
STINE EXP 902	73.9	55.5	0	38	4-14	5-21	0		

Table 7. Continued

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	---bu/A---	
STINE EXP 903	73.9	54.7	0	39	4-13	5-21	0		
AGRIPRO SAWYER	73.7	53.6	0	35	4-15	5-21	0	79.3	70.2
AR 369-6-2	73.1	56.1	0	32	4-10	5-14	3		
AGRA TECH 91W	73.1	55.5	0	37	4-13	5-19	0	75.8	71.7
EK 114	72.9	54.9	0	39	4-16	5-22	0	79.3	
AGRIPRO SHILOH	71.3	55.1	0	36	4-17	5-20	0	84.9	
ERNIE	70.9	56.5	0	31	4-10	5-16	1	81.4	
GA DOZIER	69.6	57.2	0	36	4-14	5-19	0		
MADISON	68.5	55.2	0	34	4-10	5-16	0	73.6	71.7
WAKEFIELD	66.1	55.1	0	39	4-15	5-20	0	77.2	73.8
GA ANDY	65.5	54.5	0	34	4-01	5-13	16	72.3	68.5
STINE EXP 901	65.2	55.8	0	41	4-14	5-19	0		
GA MOREY	61.1	54.3	0	34	4-03	5-15	14		
CARDINAL	53.3	54.5	0	42	4-19	5-23	0	71.0	73.8
SMOKER	50.3	52.5	0	41	4-20	5-27	0		
TRICAL 498	76.5	47.8	0	40	3-29	5-21	20		
Grand mean	76.7	55.9	0	37	4-13	5-18	2		
LSD (5%)	8.0	1.1	ns	1	2	1	2		
C.V. (%)	7.5	1.4		3	3	1	87		

Ldg = Lodging
Pt ht = Plant height

16

HIGH INPUT WHEAT TEST
COTTON BRANCH STATION, MARIANNA, AR

Soil series....Loring silt loam
Previous crop....Soybean
Preplant fertilizer....200 lbs/A 0-18-36
Planting date....October 20, 1994
Topdress # 1....90 lbs/A N on February 22, 1995
Topdress # 2....60 lbs/A N on March 16, 1995
Herbicide application(s)....½ oz/A Harmony Extra on March 16, 1995
Fungicide application(s)....4 oz/A Tilt on March 28, 1995
Harvest date....June 13, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	1.8	3.1	3.6	4.8	1.9	1.7	4.8	3.6	25.3
Normal	3.0	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	-1.2	-1.3	-1.2	+0.4	-2.2	-3.7	-0.7	-1.6	-11.5

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

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	----bu/A---	
NK COKER 9134	97.4	56.9	0	38	4-13	5-18	0	98.3	
JACKSON	93.5	57.0	0	37	4-13	5-19	0	92.0	90.7
PIONEER VARIETY 2684	91.8	58.0	0	37	4-10	5-16	0	85.2	80.4
AGRA TECH FFR 525	91.2	57.9	0	37	4-10	5-13	4	94.6	87.2
NK COKER 9803	89.8	58.3	0	35	4-10	5-16	4	88.8	86.0
FLORIDA 302	88.4	56.3	0	37	4-10	5-17	4	88.1	83.5
BUCKSHOT'S DS2368	88.4	57.1	0	37	4-07	5-15	5	85.8	77.1
PIONEER VARIETY 2580	88.4	55.7	0	37	4-13	5-20	0	89.3	87.6
TERRAL TV 8825	88.3	57.0	0	37	4-10	5-18	4	90.4	86.9
PIONEER XW631	87.0	56.7	0	32	4-04	5-16	3		
TERRAL TVX 8555	86.5	56.1	0	36	4-13	5-20	4		
PIONEER VARIETY 2643	85.8	55.5	0	29	4-10	5-19	1	87.2	
EK 114	85.3	55.6	0	39	4-13	5-20	0	92.9	
HAZEN	84.9	56.0	0	37	4-16	5-22	0	84.9	84.0
AGRIPRO CLEMENS	83.1	57.6	0	40	4-17	5-23	0		
MO 12258	82.9	56.3	0	33	4-15	5-20	0		
NK COKER 9835	82.5	55.2	0	31	4-07	5-16	8	86.8	80.0
HARTZ VARIETY HX3301	81.9	56.0	0	37	4-13	5-21	0		
GA 84414	81.6	57.6	0	37	4-12	5-19	1		
AGRIPRO HICKORY	81.6	57.4	0	39	4-11	5-17	0	83.5	85.9
[redacted]	80.4	55.8	0	34	[redacted]	[redacted]	0	78.8	74.0
PIONEER VARIETY 2628	80.3	56.2	0	35	4-13	5-21	0	83.0	
AR 370-2-1	80.0	56.5	0	32	4-10	5-15	4	85.0	
AGRIPRO SHILOH	79.6	55.0	0	36	4-16	5-20	0	90.6	
AR 369-6-2	79.6	56.5	0	32	4-09	5-16	5		
TERRAL 1011	79.5	55.0	0	40	4-14	5-22	0	79.8	78.0
TRACKER	78.8	55.7	0	39	4-13	5-21	0		
AGRIPRO 91D-2308	78.3	55.9	0	36	4-04	5-14	5		
AGRIPRO SAWYER	77.4	54.4	0	34	4-13	5-20	0	82.4	74.3
FLORIDA 304	77.4	56.9	0	38	4-10	5-17	8	81.8	70.6
AGRIPRO MALLARD	77.3	54.5	0	33	4-15	5-19	0	83.0	82.1
TERRAL 101	76.5	54.4	0	40	4-15	5-20	0	79.4	76.1
[redacted]	76.3	57.8	0	31	[redacted]	[redacted]	0	85.6	
STINE EXP 902	76.1	56.3	0	38	4-13	5-20	0		
PIONEER VARIETY 2566	76.0	54.4	0	35	4-17	5-23	0	82.8	
MADISON	75.0	56.1	0	33	4-10	5-16	0	77.9	76.6
GA DOZIER	74.3	57.8	0	35	4-13	5-18	0		

Table 8. Continued

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	Wint kill	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			%	----bu/A----	
AR 536-1	72.4	56.0	0	37	4-12	5-23	5		
AR 361A-9-1	72.3	56.8	0	34	4-15	5-17	0	78.9	
ERNIE	72.2	56.7	0	30	4-10	5-16	0	77.7	
GA STUCKEY	71.6	53.9	0	31	4-06	5-15	8		
WAKEFIELD	71.4	55.3	0	38	4-14	5-19	0	86.0	83.5
GA GORE	70.3	55.8	0	34	4-10	5-16	3	78.0	77.5
NK COKER 9474	70.0	57.8	0	34	4-13	5-18	0	76.1	
AGRA TECH 91W	69.6	55.5	0	35	4-13	5-19	17	76.2	75.2
SMOKER	69.2	54.3	0	39	4-19	5-28	0		
GA MOREY	67.4	54.2	0	34	4-01	5-18	13		
FREEDOM	66.3	54.1	0	39	4-16	5-23	0	77.8	
STINE EXP 903	66.3	54.9	0	35	4-12	5-21	0		
STINE EXP 901	63.3	56.1	0	39	4-13	5-19	0		
GA ANDY	62.6	53.9	0	34	3-29	5-16	20	76.4	75.0
CARDINAL	55.0	55.3	0	41	4-18	5-23	0	74.1	76.0
TRICAL 498	89.2	48.1	0	40	3-28	5-22	20		
Grand mean	78.9	55.9	0	36	4-11	5-19	2		
LSD (5%)	9.7	1.1	ns	2	2	1	2		
C.V. (%)	8.9	1.4		4	3	1	61		

Ldg = Lodging
Pt ht = Plant height

STANDARD INPUT WHEAT TEST
SOUTHEAST BRANCH STATION, ROHWER, AR

Soil series....McGehee silt loam
Previous crop...Fallow
Preplant fertilizer....None
Planting date....November 3, 1994
Topdress # 1....60 lbs/A N on February 21, 1995
Topdress # 2....40 lbs/A N on March 14, 1994
Herbicide application(s)....43 oz/A Hoelon on February 2, 1995
Fungicide application(s)....None
Insecticide application(s)....None
Harvest date....June 6, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	3.8	3.5	5.4	2.6	6.6	6.0	2.3	33.0
Normal	4.5	5.6	6.7	3.4	5.5	5.2	3.5	4.7	39.1
Departure	-1.7	-1.8	-3.2	+2.0	-2.9	+1.4	+2.5	-2.4	-6.1

Table 9. Performance of Wheat Cultivars in Standard Input Test, Rohwer.

Entry Name	Yield	Test wt	Ldg	Head date	Mat. date	Herb damg	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%			%	----bu/A----	
[redacted]	54.0	59.1	0	[redacted]	5-15	2	62.0	64.1
NK COKER 9835	51.8	56.3	0	4-06	5-15	13	83.9	73.1
NK COKER 9803	51.1	59.6	0	4-09	5-15	2	64.0	63.9
NK COKER 9134	50.6	58.8	0	4-09	5-15	2	83.7	
PIONEER VARIETY 2628	50.0	57.7	0	4-10	5-15	1	84.2	
FLORIDA 302	49.5	56.6	0	4-06	5-16	5	81.7	70.9
[redacted]	49.2	59.4	0	[redacted]	5-13	6	76.2	
PIONEER VARIETY 2580	48.9	57.3	0	4-09	5-15	1	84.0	75.4
AGRA TECH FFR 525	48.9	58.8	0	4-08	5-14	4	69.1	67.6
MO 12258	48.9	57.5	0	4-11	5-17	0		
PIONEER VARIETY 2566	48.7	57.7	0	4-11	5-18	0	80.3	
PIONEER VARIETY 2684	48.6	59.0	0	4-04	5-15	3	86.6	77.5
AGRIPRO MALLARD	48.6	57.4	0	4-11	5-17	0	77.9	74.1
HAZEN	48.6	58.0	0	4-11	5-16	0	78.8	75.9
HARTZ VARIETY HX3301	48.4	57.4	0	4-10	5-15	0		
TRACKER	48.4	56.5	0	4-11	5-17	0		
PIONEER XW631	47.8	58.2	0	3-30	5-10	4		
AGRIPRO SAWYER	47.4	56.5	0	4-11	5-16	1	78.3	73.2
TERRAL TVX 8555	47.2	57.9	0	4-10	5-16	1		
TERRAL 1011	47.0	57.4	0	4-09	5-12	0	73.9	70.0
JACKSON	46.9	58.6	0	4-10	5-15	0	78.6	77.2
AGRIPRO 91D-2308	46.8	57.2	0	4-04	5-13	8		
GA 84414	46.7	60.0	0	4-09	5-16	0		
FLORIDA 304	46.7	58.1	0	4-06	5-12	6	77.5	67.7
AGRIPRO CLEMENS	46.4	58.3	0	4-15	5-17	0		
TERRAL 101	45.0	56.9	0	4-10	5-14	3	73.8	73.1
GA DOZIER	44.9	59.3	0	4-10	5-16	2		
GA MOREY	44.9	56.5	0	3-30	5-10	9		
AR 536-1	44.7	58.6	0	4-10	5-18	2		
STINE EXP 903	44.3	56.2	0	4-08	5-15	5		
AR 370-2-1	44.0	57.5	0	4-08	5-14	3	72.2	
PIONEER VARIETY 2643	43.7	57.5	0	4-06	5-13	6	78.5	
AR 369-6-2	43.5	56.9	0	4-06	5-12	3		
EK 114	43.1	55.5	0	4-10	5-16	0	80.2	
GA STUCKEY	42.9	57.2	0	4-02	5-10	8		
AGRIPRO SHILOH	42.8	58.2	0	4-12	5-17	0	71.6	

Table 9. Continued

Entry Name	Yield	Test wt	Ldg	Head date	Mat. date	Herb damg	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%			%	----bu/A----	
ERNIE	42.4	58.0	0	4-06	5-13	6	74.9	
TERRAL TV 8825	42.2	58.8	0	4-06	5-15	9	75.3	73.9
BUCKSHOT'S DS2368	42.1	58.9	0	4-01	5-08	8	74.4	64.2
FREEDOM	41.9	56.0	0	4-13	5-18	0	70.3	
AR 361A-9-1	41.9	59.2	0	4-12	5-16	0	73.9	
STINE EXP 902	41.3	56.6	0	4-10	5-16	0		
GA GORE	40.9	56.1	0	4-06	5-12	3	71.4	68.2
MADISON	40.8	56.7	5	4-08	5-15	3	76.7	70.9
AGRA TECH 91W	40.1	57.6	0	4-10	5-16	0	75.6	71.5
WAKEFIELD	39.1	57.2	0	4-09	5-16	3	73.2	70.6
CARDINAL	38.9	56.2	0	4-15	5-20	0	58.1	59.3
NK COKER 9474	38.6	59.5	0	4-09	5-15	3	69.5	
GA ANDY	37.3	57.1	1	3-28	5-09	11	74.6	66.6
AGRIPRO HICKORY	36.8	56.4	0	4-06	5-14	5	74.5	77.8
STINE EXP 901	34.7	57.4	0	4-09	5-14	3		
SMOKER	31.6	56.1	0	4-19	5-24	0		
TRICAL 498	43.9	49.3	3	3-24	5-14	28		
Grand mean	44.9	57.5	0	4-08	5-15	3		
LSD (5%)	6.5	1.3	2	1	2	7		
C.V. (%)	10.5	1.7	939	2	2	157		

Ldg = Lodging
Herb damg = Paraquat drift damage to the flag leaf

HIGH INPUT WHEAT TEST
SOUTHEAST BRANCH STATION, ROHWER, AR

Soil series....McGehee silt loam
Previous crop...Fallow
Preplant fertilizer....None
Planting date....November 3, 1994
Topdress # 1....90 lbs/A N on February 21, 1995
Topdress # 2....60 lbs/A N on March , 1995
Herbicide application(s)....43 oz/A Hoelon on February 2, 1995
Fungicide application(s)....4 oz/A Tilt on March 28, 1995
Insecticide application(s)....None
Harvest date....June 6, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	3.8	3.5	5.4	2.6	6.6	6.0	2.3	33.0
Normal	4.5	5.6	6.7	3.4	5.5	5.2	3.5	4.7	39.1
Departure	-1.7	-1.8	-3.2	+2.0	-2.9	+1.4	+2.5	-2.4	-6.1

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

Entry Name	Yield	Test wt	Ldg	Head date	Mat. date	Herb damg	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%			%	---bu/A---	
GA 84414	60.8	60.0	0	4-09	5-15	1		
AGRIPRO MALLARD	60.8	58.0	0	4-10	5-15	2	87.3	89.1
NK COKER 9134	60.0	59.1	0	4-09	5-16	0	90.0	
MO 12258	59.4	57.9	0	4-11	5-17	1		
PIONEER VARIETY 2566	58.0	54.8	0	4-11	5-17	0	86.4	
NK COKER 9803	56.3	59.3	0	4-09	5-15	1	74.9	77.0
PIONEER VARIETY 2628	56.0	58.2	0	4-10	5-16	2	89.5	
EK 114	55.9	57.1	0	4-10	5-16	0	91.0	
AGRA TECH FFR 525	55.9	59.3	0	4-08	5-16	2	91.6	87.3
NK COKER 9548	55.8	58.7	0	4-09	5-14	1	65.0	69.6
HARTZ VARIETY HX3301	55.7	57.3	0	4-10	5-16	2		
TRACKER	55.4	56.6	0	4-10	5-15	0		
AR 2658-4	55.3	58.9	0	4-03	5-15	3	88.2	
STINE EXP 902	55.3	57.5	0	4-10	5-16	0		
FLORIDA 302	55.0	56.9	0	4-06	5-14	2	85.0	79.7
TERRAL 101	54.6	56.8	0	4-10	5-15	0	79.5	80.5
PIONEER VARIETY 2580	54.5	57.7	0	4-09	5-16	2	82.3	81.0
GA MOREY	53.9	56.4	0	3-28	5-10	9		
HAZEN	53.1	58.0	0	4-11	5-16	0	88.7	87.9
AGRIPRO CLEMENS	53.0	59.2	0	4-15	5-19	1		
TERRAL 1011	52.9	57.0	0	4-10	5-14	0	80.4	81.6
JACKSON	52.8	57.8	0	4-10	5-14	0	91.6	88.8
PIONEER XW631	52.7	58.6	0	3-30	5-12	3		
AGRIPRO SHILOH	52.6	58.4	0	4-12	5-15	0	82.1	
TERRAL TVX 8555	52.6	58.3	0	4-10	5-15	5		
NK COKER 9835	52.5	57.4	0	4-06	5-14	4	82.4	74.9
FLORIDA 304	52.4	58.3	3	4-05	5-14	11	82.4	71.9
PIONEER VARIETY 2684	52.4	59.2	0	4-03	5-15	6	89.0	83.2
BUCKSHOT'S DS2368	52.2	58.4	0	3-31	5-08	5	81.9	76.0
AGRIPRO 91D-2308	51.8	57.1	0	4-03	5-15	3		
AR 370-2-1	51.4	56.8	0	4-06	5-13	1	83.0	
AGRIPRO SAWYER	51.3	56.6	0	4-11	5-16	0	84.7	84.5
GA DOZIER	50.9	59.0	0	4-10	5-15	1		
ERNIE	50.8	58.3	0	4-06	5-15	2	83.6	
AR 536-1	50.6	58.4	0	4-10	5-17	3		
PIONEER VARIETY 2643	50.1	57.1	3	4-07	5-16	4	86.3	
TERRAL TV 8825	49.8	58.7	1	4-07	5-16	8	80.4	75.7

Table 10. Continued

Entry Name	Yield	Test wt	Ldg	Head date	Mat. date	Herb damg	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%			%	---bu/A---	
GA STUCKEY	49.4	57.3	5	4-02	5-16	5		
STINE EXP 903	49.4	56.1	0	4-08	5-14	2		
FREEDOM	47.8	56.3	0	4-13	5-18	0	80.8	
AR 361A-9-1	46.9	58.7	0	4-11	5-17	1	74.6	
GA ANDY	46.6	57.1	4	3-28	5-11	4	82.1	79.2
AGRA TECH 91W	46.1	57.7	0	4-10	5-16	1	79.4	81.0
SMOKER	45.6	57.0	0	4-18	5-24	1		
AGRIPRO HICKORY	45.3	58.9	0	4-06	5-15	3	80.6	88.7
WAKEFIELD	44.9	58.0	0	4-10	5-15	1	73.7	78.3
AR 369-6-2	44.7	56.8	0	4-05	5-13	3		
GA GORE	44.7	56.7	0	4-06	5-14	1	81.8	77.4
STINE EXP 901	44.0	57.7	0	4-09	5-15	1		
MADISON	43.5	57.3	0	4-07	5-15	2	75.6	73.3
NK COKER 9474	42.6	60.1	0	4-10	5-16	1	77.5	
CARDINAL	39.3	56.0	0	4-15	5-18	1	70.6	75.5
TRICAL 498	51.6	49.9	5	3-23	5-15	35		
Grand mean	51.7	57.6	0	4-08	5-15	3		
LSD (5%)	7.5	1.0	3	1	2	5		
C.V. (%)	10.5	1.2	505	2	2	141		

Ldg = Lodging
Herb damg = Paraquat drift damage to the flag leaf

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

Soil series....Crowley silt loam
Previous crop....Fallow
Preplant fertilizer....None
Planting date....November 2, 1994
Topdress # 1....46 lbs/A P_2O_5 on November 30, 1994
Topdress # 2....60 lbs/A N on February 21, 1995
Topdress # 3....40 lbs/A N on March 21, 1995
Herbicide application(s)....None
Fungicide application(s)....None
Insecticide application(s)....None
Harvest date....June 5, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	2.2	3.3	4.9	2.0	2.3	10.5	2.7	30.7
Normal	2.7	4.4	4.6	4.0	4.0	5.1	5.2	4.7	34.7
Departure	+0.1	-2.2	-1.3	+0.9	-2.0	-2.8	+5.3	-2.0	-4.0

Table 11. Performance of Wheat Cultivars in Standard Input Test, Stuttgart.

Entry Name	Yield	Test wt	Head date	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu		%	----bu/A----	
AGRIPRO MALLARD	88.5	56.8	4-11	2	98.1	91.6
EK 114	88.4	57.8	4-10	24	96.4	
AR 26158-4	86.5	58.8	4-05	0	93.2	
JACKSON	85.8	58.5	4-11	15	95.2	91.6
GA MOREY	85.7	56.5	4-05	0		
NK COKER 9835	85.7	58.0	4-10	0	98.0	89.0
PIONEER VARIETY 2684	82.8	58.8	4-06	1	93.0	90.5
FLORIDA 304	82.7	58.2	4-09	0	89.4	80.0
NK COKER 9548	81.4	58.5	4-10	5	90.0	88.4
ERNIE	81.2	57.5	4-08	97	91.2	
NK COKER 9803	81.0	59.9	4-10	0	84.3	81.6
AGRIPRO HICKORY	80.4	58.6	4-09	3	91.9	92.8
AGRIPRO SHILOH	80.1	57.8	4-13	0	94.6	
GA ANDY	79.9	58.4	3-30	1	88.8	79.3
NK COKER 9134	79.9	58.8	4-11	0	91.4	
AGRA TECH FFR 525	79.9	59.0	4-09	42	92.5	90.0
AR 370-2-1	79.7	57.5	4-09	40	90.7	
PIONEER XW631	78.7	58.0	4-05	0		
BUCKSHOT'S DS2368	78.5	58.9	4-03	1	82.9	70.5
TERRAL TVX 8555	78.3	58.0	4-12	1		
HARTZ VARIETY HX3301	77.8	57.0	4-10	26		
TERRAL TV 8825	77.8	58.0	4-10	1	90.5	87.3
GA STUCKEY	77.5	58.6	4-05	3		
GA GORE	76.8	57.1	4-08	0	87.3	89.1
PIONEER VARIETY 2580	76.7	57.1	4-09	55	90.1	86.0
HAZEN	76.2	58.3	4-13	52	89.9	87.3
AGRIPRO CLEMENS	75.9	58.2	4-15	1		
PIONEER VARIETY 2628	75.6	58.5	4-09	72	94.3	
PIONEER VARIETY 2643	75.0	58.1	4-08	0	83.9	
GA 84414	74.9	59.6	4-11	0		
TRACKER	74.6	56.9	4-11	82		
FLORIDA 302	74.4	57.6	4-09	68	87.4	84.0
TERRAL 1011	74.4	56.6	4-12	1	84.4	83.0
WAKEFIELD	73.9	55.6	4-10	43	86.3	86.5
MO 12258	73.9	56.9	4-14	3		
TERRAL 101	73.9	57.1	4-12	0	87.8	86.6

Table 11. Continued

Entry Name	Yield	Test wt	Head date	Leaf rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu		%	----bu/A----	
MADISON	73.8	57.1	4-09	96	87.9	84.5
PIONEER VARIETY 2566	73.7	57.6	4-11	2	93.7	
NK COKER 9474	73.5	60.2	4-10	0	82.0	
AGRIPRO SAWYER	73.4	55.7	4-12	44	93.7	86.0
AR 369-6-2	72.1	57.6	4-09	66		
FREEDOM	71.2	56.3	4-14	0	86.0	
AGRA TECH 91W	69.9	57.1	4-11	17	86.3	84.6
AR 361A-9-1	69.1	59.7	4-14	1	84.6	
STINE EXP 903	68.7	56.0	4-09	41		
AR 536-1	67.9	59.0	4-11	29		
GA DOZIER	67.4	59.6	4-11	0		
STINE EXP 902	66.5	57.2	4-09	75		
STINE EXP 901	65.6	57.1	4-10	96		
AGRIPRO 91D-2308	65.6	56.9	4-07	0		
CARDINAL	58.9	57.1	4-15	50	79.9	80.6
SMOKER	51.4	55.4	4-14	75		
TRICAL 498	79.0	51.3	3-25	30		
Grand mean	75.7	57.6	4-09	25		
LSD (5%)	10.4	1.1	2	22		
C.V. (%)	9.9	1.4	3	64		

Leaf rust ratings were made on the flag leaf on May 11.

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

Soil series....Crowley silt loam
Previous crop....Fallow
Preplant fertilizer....None
Planting date....November 2, 1994
Topdress # 1....46 lbs/A P_2O_5 on November 30, 1994
Topdress # 2....90 lbs/A N on February 21, 1995
Topdress # 3....60 lbs/A N on March 21, 1995
Herbicide application(s)....None
Fungicide application(s)....4 oz/A Tilt on April 3, 1995
Insecticide application(s)....None
Harvest date....June 5, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	2.2	3.3	4.9	2.0	2.3	10.5	2.7	30.7
Normal	2.7	4.4	4.6	4.0	4.0	5.1	5.2	4.7	34.7
Departure	+0.1	-2.2	-1.3	+0.9	-2.0	-2.8	+5.3	-2.0	-4.0

Table 12. Performance of Wheat Cultivars in High Input Test, Stuttgart.

Entry Name	Yield	Test wt	Head date	2-Yr avg	3-Yr avg
	bu/A	lb/bu		----bu/A----	
NK COKER 9134	103.6	59.9	4-09	99.0	
PIONEER VARIETY 2684	102.8	60.1	4-04	98.8	96.6
PIONEER VARIETY 2580	101.7	58.9	4-09	96.5	93.2
NK COKER 9543	100.3	60.2	4-10	98.8	90.2
NK COKER 9835	99.5	58.2	4-10	102.3	91.2
PIONEER VARIETY 2628	99.4	60.7	4-09	101.8	
FLORIDA 302	99.2	59.3	4-09	101.2	94.4
JACKSON	99.0	60.2	4-11	98.0	97.6
AR 5158-4	96.6	59.1	4-04	94.5	
HARTZ VARIETY HX3301	96.3	58.6	4-10		
AGRA TECH FFR 525	96.3	60.4	4-09	96.6	93.0
TERRAL TV 8825	96.0	59.8	4-10	94.1	87.1
ERNIE	95.2	58.8	4-08	92.6	
GA STUCKEY	94.7	59.3	4-04		
EK 114	94.1	58.9	4-11	99.7	
AGRIPRO CLEMENS	93.8	60.0	4-14		
GA MOREY	92.9	58.2	4-04		
NK COKER 9803	91.3	60.5	4-10	85.5	80.5
PIONEER XW631	91.2	58.7	4-04		
PIONEER VARIETY 2643	91.2	59.6	4-07	85.9	
MO 12258	91.2	58.2	4-13		
AGRIPRO HICKORY	90.7	59.5	4-07	91.3	91.4
WAKEFIELD	90.3	58.8	4-10	91.0	90.9
BUCKSHOT'S DS2368	90.0	59.7	4-04	83.8	73.1
FLORIDA 304	89.5	58.6	4-08	89.1	78.9
HAZEN	89.0	58.9	4-13	93.7	91.9
STINE EXP 902	88.6	59.0	4-10		
TERRAL 1011	87.8	58.1	4-11	90.1	86.4
AR 370-2-1	87.6	58.5	4-09	90.6	
GA 84414	87.2	60.6	4-10		
AGRIPRO SAWYER	87.1	57.0	4-12	90.2	82.9
TERRAL 101	86.8	58.4	4-11	94.1	90.4
AGRIPRO MALLARD	86.4	57.2	4-11	95.0	91.2
PIONEER VARIETY 2566	86.3	58.5	4-11	95.3	
GA ANDY	85.5	58.9	3-30	89.8	79.5

Table 12. Continued

Entry Name	Yield	Test wt	Head date	2-Yr avg	3-Yr avg
	bu/A	lb/bu		----bu/A----	
GA DOZIER	85.4	58.3	4-11		
AR 369-6-2	85.4	59.1	4-09		
MADISON	84.7	57.9	4-08	85.1	84.8
AGRIPRO SHILOH	84.6	57.3	4-13	91.9	
AGRIPRO 91D-2308	83.6	57.7	4-07		
GA GORE	83.3	57.9	4-07	84.7	86.4
TRACKER	82.8	58.9	4-11		
TERRAL TVX 8555	82.8	58.8	4-12		
FREEDOM	82.5	57.0	4-14	79.6	
STINE EXP 901	82.0	58.7	4-10		
AR 536-1	81.3	59.6	4-09		
STINE EXP 903	79.6	57.8	4-09		
AGRA TECH 91W	77.1	57.6	4-10	80.3	80.9
AR 361A-9-1	75.4	60.1	4-12	80.7	
NK COKER 9474	74.3	60.8	4-11	75.5	
CARDINAL	68.8	58.2	4-15	80.4	81.1
SMOKER	68.2	56.2	4-15		
TRICAL 498	96.6	52.2	3-25		
Grand mean	89.0	58.7	4-09		
LSD (5%)	8.6	1.2	1		
C.V. (%)	7.0	1.4	3		

STANDARD INPUT WHEAT TEST
SOUTHWEST RESEARCH & EXTENSION CENTER, HOPE, AR

Soil series....Bowie sandy loam
Previous crop....Corn
Preplant fertilizer....350 lbs/A 10-20-20
Planting date....November 30, 1994
Topdress # 1....33 lbs/A N on February 20, 1995
Topdress # 2....33 lbs/A N on March 20, 1995
Herbicide application(s)....None
Fungicide application(s)....None
Harvest date....June 7, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	6.8	7.0	5.6	6.2	1.7	2.5	5.9	4.8	40.5
Normal	3.3	4.4	4.1	3.8	3.8	4.6	5.6	5.4	35.0
Departure	+3.5	+2.6	+1.5	+2.4	-2.1	-2.1	+0.3	-0.6	+5.5

Table 13. Performance of Wheat Cultivars in Standard Input Test, Hope.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Bird damg	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in		%	----bu/A----	
PIONEER VARIETY 2580	76.2	53.0	0	35	4-15	0	74.2	68.9
PIONEER VARIETY 2684	75.0	56.0	0	35	4-13	0	72.4	69.6
PIONEER VARIETY 2566	72.1	52.4	0	36	4-16	0	71.4	
STINE EXP 901	70.3	53.4	0	38	4-16	0		
AGRIPRO 91D-2308	69.8	55.4	0	33	4-16	0		
NK COKER 9835	69.1	51.8	0	32	4-19	0	74.5	75.3
NK COKER 9474	69.0	57.0	1	37	4-17	5	69.7	
PIONEER VARIETY 2628	68.4	51.6	0	36	4-15	0	73.2	
NK COKER 9134	68.3	52.0	24	39	4-17	0	75.6	
BUCKSHOT'S DS2368	67.3	53.1	0	36	4-14	0	68.7	65.4
AGRIPRO SHILOH	67.2	50.6	4	37	4-19	0	73.0	
AGRIPRO MALLARD	66.7	49.1	1	38	4-23	0	69.7	67.0
EK 114	66.1	47.5	0	39	4-20	3	69.6	
HARTZ VARIETY HX3301	66.1	47.9	0	39	4-19	0		
TRACKER	66.1	52.4	0	39	4-17	0		
GA MOREY	66.0	50.4	0	38	4-14	0		
NK COKER 9543	65.2	49.0	16	34	4-15	0	68.5	67.3
AR 536-1	64.9	52.4	0	36	4-17	0		
STINE EXP 902	64.6	53.0	0	40	4-17	0		
TERRAL TVX 8555	63.8	50.1	0	35	4-22	0		
PIONEER XW631	63.6	53.4	0	33	4-11	0		
NK COKER 9803	63.5	52.9	1	34	4-20	0	68.4	69.8
FLORIDA 302	63.2	46.5	0	40	4-18	0	68.4	65.7
GA DOZIER	63.0	53.2	0	32	4-20	0		
WAKEFIELD	62.9	49.4	0	41	4-18	0	68.2	68.0
PIONEER VARIETY 2643	62.7	50.9	0	31	4-14	0	67.2	
MO 12258	61.5	54.2	0	37	4-26	0		
FLORIDA 304	61.4	52.0	0	39	4-16	0	64.0	57.2
GA 84414	61.2	51.7	3	38	4-19	0		
AGRIPRO HICKORY	60.6	52.4	0	37	4-13	13	67.9	67.7
AR 26158-4	60.5	53.5	5	33	4-12	6	67.8	
AGRIPRO CLEMENS	59.7	52.0	0	42	4-25	0		
AGRA TECH 91W	59.2	49.9	0	36	4-21	0	65.0	65.5
MADISON	58.6	52.3	10	35	4-14	11	68.6	69.2
STINE EXP 903	58.4	51.7	23	40	4-14	0		
TERRAL 1011	58.0	47.6	3	40	4-20	3	60.7	63.3
JACKSON	57.0	48.2	14	35	4-18	15	69.6	72.1
AGRIPRO SAWYER	56.7	50.4	0	36	4-20	0	58.8	57.2

Table 13. Continued

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Bird damg	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in		%	----bu/A----	
TERRAL TV 8825	55.8	51.0	0	36	4-21	0	61.5	63.5
AGRA TECH FFR 525	55.2	53.6	0	38	4-19	13	65.2	69.5
FREEDOM	54.8	45.7	0	41	4-26	0	60.9	
TERRAL 101	54.6	49.3	3	39	4-21	0	61.1	61.2
HAZEN	53.9	48.5	0	37	4-20	0	61.4	55.7
AR 369-6-2	53.1	51.3	1	32	4-17	18		
AR 361A-9-1	53.0	54.9	4	36	4-27	0	59.3	
AR 370-2-1	52.3	49.1	11	34	4-16	18	58.6	
ERNIE	50.3	53.9	0	33	4-15	10	61.0	
CARDINAL	50.2	50.8	0	42	4-28	0	55.6	54.3
GA STUCKEY	48.0	49.9	8	32	4-14	20		
SMOKER	46.5	43.5	0	41	4-28	0		
GA ANDY	40.0	49.0	0	38	4-13	23	52.6	56.7
GA GORE	36.2	51.0	0	36	4-12	48	51.3	53.7
TRICAL 498	68.3	42.7	0	41	4-09	0		
Grand mean	61.0	51.0	2	37	4-18	4		
LSD (5%)	14.6	2.9	11	2	3	16		
C.V. (%)	17.3	4.1	316	5	4	306		

Ldg = Lodging
Pt ht = Plant height

HIGH INPUT WHEAT TEST
SOUTHWEST RESEARCH & EXTENSION CENTER, HOPE, AR

Soil series....Bowie sandy loam
Previous crop....Corn
Preplant fertilizer....350 lbs/A 10-20-20
Planting date....November 30, 1994
Topdress # 1....66 lbs/A N on February 20, 1995
Topdress # 2....66 lbs/A N on March 20, 1995
Herbicide application(s)....None
Fungicide application(s)....4 oz/A Tilt on April 7, 1995
Harvest date....June 8, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	6.8	7.0	5.6	6.2	1.7	2.5	5.9	4.8	40.5
Normal	3.3	4.4	4.1	3.8	3.8	4.6	5.6	5.4	35.0
Departure	+3.5	+2.6	+1.5	+2.4	-2.1	-2.1	+0.3	-0.6	+5.5

Table 14. Performance of Wheat Cultivars in High Input Test, Hope.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Bird damg	2-Yr avg	3-YR avg
	bu/A	lb/bu	%	in		%	----bu/A----	
PIONEER VARIETY 2580	87.1	53.8	0	36	4-15	0	77.1	74.1
PIONEER VARIETY 2643	78.3	49.7	1	32	4-16	0	71.4	73.4
PIONEER VARIETY 2684	78.2	56.6	1	35	4-14	0	75.1	
PIONEER VARIETY 2628	77.3	53.6	0	37	4-17	0	76.9	
NK COKER 9803	75.1	53.6	13	35	4-19	0	75.5	75.5
JACKSON	74.8	50.4	13	37	4-18	1	75.0	77.2
GA DOZIER	74.4	54.8	0	34	4-23	0		
AGRA TECH 91W	74.3	53.1	0	36	4-20	0	72.3	68.1
BUCKSHOT'S DS2368	73.2	51.1	0	37	4-14	3	73.6	70.4
PIONEER XW631	72.2	47.9	3	32	4-11	0		
HARTZ VARIETY HX3301	71.6	43.6	3	40	4-25	0		
WAKEFIELD	71.5	50.1	9	41	4-20	5	75.0	73.3
AGRIPRO MALLARD	70.3	50.8	0	37	4-25	0	69.4	67.8
NK COKER 9134	70.2	50.0	30	39	4-19	0	78.3	
NK COKER 9835	70.0	49.4	18	33	4-20	0	72.7	71.0
FLORIDA 304	69.5	52.6	1	39	4-17	0	67.7	61.0
NK COKER 9474	69.5	55.3	3	40	4-17	5	70.1	
EK 114	69.4	49.7	3	39	4-22	0	65.5	
PIONEER VARIETY 2566	69.0	50.8	5	36	4-18	0	68.9	
STINE EXP 902	68.6	50.0	1	41	4-19	0		
GA 84414	67.8	53.9	4	38	4-19	0		
TERRAL TVX 8555	67.6	52.8	0	36	4-24	0		
GA MOREY	67.3	52.2	0	37	4-14	0		
AGRIPRO HICKORY	66.8	51.0	3	36	4-15	15	70.5	68.2
FLORIDA 302	66.5	45.9	15	40	4-21	0	70.7	69.6
AGRIPRO 91D-2308	66.5	56.0	0	32	4-17	0		
TERRAL TV 8825	65.7	50.2	15	37	4-24	0	70.9	70.4
TRACKER	65.4	52.6	0	38	4-17	0		
AGRIPRO CLEMENS	65.1	54.0	28	43	4-28	0		
HAZEN	65.0	52.1	0	39	4-21	0	64.3	60.3
ERNIE	64.8	55.1	15	33	4-15	5	63.6	
NK COKER 9543	63.7	51.7	30	34	4-16	5	67.8	65.7
AGRIPRO SAWYER	62.7	49.1	25	37	4-21	0	60.7	58.4
AR 2615B-4	62.3	52.5	43	35	4-14	13	66.5	
MO 12258	61.5	56.0	15	38	4-28	0		
AR 370-2-1	60.2	54.0	1	32	4-17	10		
AR 536-1	59.4	53.8	9	38	4-19	0		

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Table 14. Continued

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Bird damg	2-Yr avg	3-YR avg
	bu/A	lb/bu	%	in		%	----bu/A----	
AGRIPRO SHILOH	59.3	52.3	15	37	4-24	3	65.7	
STINE EXP 901	58.0	55.0	0	36	4-17	15		
TERRAL 101	56.7	47.1	5	39	4-24	18	61.7	62.4
TERRAL 1011	56.3	48.4	5	39	4-24	0	63.4	62.6
SMOKER	55.5	46.0	0	43	4-28	0		
MADISON	55.1	47.4	53	38	4-16	30	64.7	65.1
CARDINAL	53.6	52.7	1	43	4-28	8	56.2	57.3
AGRA TECH FFR 525	51.9	52.8	24	37	4-18	15	66.6	69.8
STINE EXP 903	49.1	47.9	50	38	4-14	0		
FREEDOM	49.0	48.4	20	40	4-27	5	60.3	
AR 369-6-2	45.8	51.6	13	33	4-16	38		
AR 361A-9-1	45.7	48.3	65	36	4-28	0	56.1	
GA STUCKEY	39.4	50.4	55	34	4-14	55		
GA ANDY	39.2	45.3	9	39	4-13	43	56.1	60.1
GA GORE	27.7	50.4	13	36	4-13	86	48.2	49.8
TRICAL 498	79.6	42.3	0	41	4-09	0		
Grand mean	63.9	51.1	12	37	4-19	7		
LSD (5%)	14.9	5.6	26	3	2	16		
C.V. (%)	16.9	7.9	156	5	3	167		

Ldg = Lodging
Pt ht = Plant height

OAT TEST
NORTHEAST RESEARCH AND EXTENSION CENTER, KEISER, AR

Soil series....Sharkey silty clay
Previous crop....Soybean
Preplant fertilizer....None
Planting date....October 28, 1994
Topdress # 1....100 lbs/A N on February 23, 1995
Topdress # 2....50 lbs/A N on March 13, 1995
Herbicide application(s)....½ oz/A Harmony Extra on March 22, 1995
Fungicide application(s)....None
Insecticide application(s)....None
Harvest date....June 14, 1995

Precipitation

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	Inches								
1994-95	2.8	3.0	5.9	4.6	1.4	1.4	5.8	4.5	29.4
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	+0.4	-1.1	+1.2	+1.2	-1.6	-3.4	+0.7	-0.8	-3.4

Table 15. Performance of Oat Cultivars at Keiser.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date
	bu/A	lb/bu	%	in		
TX 89D7073	115.0	34.2	40	40	4-15	5-25
BUCKSHOT'S 7630	106.4	34.4	49	40	4-16	5-29
FL 874-S1-G3	105.9	32.0	6	34	4-12	5-23
TX 89D7213	102.6	33.2	39	37	4-17	5-30
PA 8014-599	101.9	28.5	65	40	4-21	6-02
811	99.4	34.4	3	36	4-16	5-27
HARRISON	99.2	34.4	9	39	4-16	5-27
AR FOB30	93.3	33.6	48	38	4-19	5-29
TX 90D2457	90.7	32.5	73	36	4-20	5-29
CITATION	86.5	32.5	75	40	4-17	5-27
AR 82-331-8	84.0	32.8	66	39	4-19	5-27
FLORIDA 502	79.6	32.2	16	34	4-10	5-24
FL 874-E55	78.5	28.6	9	34	4-18	5-29
AR 82-331-1	78.3	32.5	59	36	4-19	5-30
GA-MITCHELL	77.7	30.7	6	31	4-18	5-30
PA 8014-608	77.1	28.4	73	32	5-01	6-03
AR 82-331-3	74.9	32.7	66	36	4-18	5-27
AR 82-491	72.3	30.2	36	36	4-23	5-31
AR 82-695-1	71.2	32.2	38	37	4-19	5-31
OZARK	66.9	32.5	60	36	4-19	6-01
BOB	63.1	32.8	50	38	4-18	5-27
AR 82-679-21	52.6	32.8	38	33	4-23	5-31
Grand mean	85.3	32.2	42	36	4-18	5-29
LSD (5%)	21.7	2.5	26	3	1	3
C.V. (%)	18.1	5.6	43	6	2	2

Ldg = Lodging
Pt ht = Plant height

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

EXHIBIT C
(*Wheat*)

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*)

Agriculture Building, Room 205
Fayetteville, AR 72701

FOR OFFICIAL USE ONLY

PVPO NUMBER 9600156

VARIETY NAME

TEMPORARY OR EXPERIMENTAL DESIGNATION

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:

[0][6] Number of Days Earlier Than Wakefield *

[0][1] Number of Days Later Than GA-Andy *

8. ANTHER COLOR:

[1] 1 = YELLOW 2 = PURPLE

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

[0][5] cm Taller Than Pioneer 2643 *

[1][0] cm Shorter Than Wakefield *

RECEIVED
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'96 MAR 13 A10:00

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

[1] 1=Absent 2=Present

[ ] cm Length

11. HEAD (at Maturity):

A. DENSITY

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

B. SHAPE

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

C. CURVATURE

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

D. AWNEDNESS

[2] 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

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

C. BEAK

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

D. LENGTH

[1] 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

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

[1] 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

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

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)*
[2] TNMK, QSHS, HJCS

Stripe Rust *(Puccinia striiformis)*
[0]

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

Halo Spot *(Selenophoma donacis)*
[0]

Septoria nodorum (Glume Blotch)
[3]

Septoria avenae (Speckled Leaf Disease)
[0]

Septoria tritici (Speckled Leaf Blotch)
[3]

Scab (*Fusarium* spp.)
[3]

"Black Point" (Kernel Smudge)
[0]

Barley Yellow Dwarf Virus (BYDV)
[1]

Soilborne Mosaic Virus (SBMV)
[4]

Wheat Yellow (Spindle Streak) Mosaic Virus
[4]

Wheat Streak Mosaic Virus (WSMV)
[0]

Other (SPECIFY) _____
[ ]

Other (SPECIFY) _____
[ ]

Other (SPECIFY) _____
[ ]

Leaf Rust *(Puccinia recondita* f. sp. *tritici)*
[2]

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)*
[2]

"Snow Molds"
[0]

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

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

Black Chaff *(Xanthomonas campestris* pv. *translucens)*
[2]

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

Other (SPECIFY) Bacterial Streak
[3] Xanthomonas campestris pv trans.

Other (SPECIFY) _____
[ ]

Other (SPECIFY) _____
[ ]

Other (SPECIFY) _____
[ ]

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

PLEASE SPECIFY BIOTYPE (where needed)

Hessian Fly *(Mayetiola destructor)*
[1] GP, B, C, D, E, L

Stem Sawfly *(Cephus spp.)*
[0]

Cereal Leaf Beetle *(Oulema melanopa)*
[0]

Russian Aphid *(Diuraphis noxia)*
[0]

Greenbug *(Schizaphis graminum)*
[0]

Aphids
[ ]

Other (SPECIFY) [ ]

Other (SPECIFY) [ ]

Other (SPECIFY) [ ]

Other (SPECIFY) [ ]

Other (SPECIFY) [ ]

Other (SPECIFY) [ ]

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

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16D. Exhibit D: Additional Description of 'Jaypee'

'Jaypee' is a common soft red winter wheat, *Triticum aestivum* L.

There is no anthocyanin present in the coleoptile and the juvenile plant growth is classified as semi-erect. Jaypee is green in color at the boot stage with a semi-erect flag leaf with the narrow end being recurved. The flag leaves are generally not twisted. The flag leaf is approximately 12 mm wide with no anthocyanin present in the auricles. However, hairs are present on the auricles.

Jaypee is similar to 'GA-Andy' in flowering date (approximately 1 day later). At Stuttgart, Arkansas when seeded between October 20 and November 1 the average first flower is 161 days after emergence. Last flowering is about 6 days later. The anther color is yellow.

Jaypee has an average height of 79 cm and is approximately 5 cm taller than 'Pioneer 2643' and 10 cm shorter than 'Wakefield' when grown in Arkansas. There is no anthocyanin present in the stem. Generally, there are 4 internodes on the stem which is hallow.

The spikes of Jaypee are apically awnletted, lax in density , fusiform and nodding at maturity. The white glumes are glabrous, short (7 mm) and midwide with wanting shoulders and acuminate beaks. Kernels are red, midlong and ovate, with a small germ; the kernel brush is midsized and short; the kernel crease is narrow in width and has a shallow depth with rounded cheeks. Kernels on average are 6 mm long and 3 mm wide with an approximate 1,000 kernel weight of 30 grams.

Jaypee has good straw strength and is resistant to leaf rust, moderately resistant to the soil-borne virus complex, and glume blotch. Test conducted in the seedling stage by the USDA Cereal Rust Lab indicate that Jaypee contains genes Lr 10 and 18 for leaf rust and Sr 36, + for stem rust. Jaypee was evaluated at the USDA Soft Wheat Quality Lab and results indicated excellent baking characteristics and milling characteristics. Data from the quality evaluations of the 1994-95 Uniform Eastern Soft Red Winter Wheat Uniform Nursery are included.

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD =AVERAGE OF THREE CALDWELL ENTRIES

	ENTRY	MILLING QUALITY SCORE			BAKING QUALITY SCORE			COMBINED QUALITY SCORE		
		N	S	ATL	N	S	ATL	N	S	ATL
1	CARDINAL	100.1	99.0	93.5	92.0	89.3	77.9	92.0	89.3	77.9
2	CALDWELL	101.3	94.6	104.1	97.3	104.6	98.4	97.3	94.6	98.4
3	PION. 2548	92.5	91.8	88.5	75.4	74.8	60.0	75.4	74.8	60.0
4	L 900819	95.0	92.5	93.5	79.1	79.6	73.7	79.1	79.6	73.7
5	AR 361A-9-1	87.7	85.4	92.7	90.7	95.8	82.5	87.7	85.4	82.5
6	MO 9965-52	93.8	90.5	97.6	97.9	91.3	90.0	93.8	90.5	90.0
7	X 1898-1	97.2	100.5	103.6	97.9	101.4	96.8	97.2	100.5	96.8
8	IL 87-1917-1	92.6	101.5	97.5	87.9	96.1	87.8	87.9	96.1	87.8
9	IL 87-5250-2	102.2	101.1	101.6	98.5	96.6	82.1	98.5	96.6	82.1
10	GA 84414-2	89.6	89.6	96.9	79.2	82.5	81.8	79.2	82.5	81.8
11	T 71	94.1	95.4	102.5	93.4	95.0	81.2	93.4	95.0	81.2
12	KY 85C-31-6	102.5	103.2	103.2	96.2	103.7	96.8	96.2	103.2	96.8
13	OH 498	87.8	90.7	93.0	84.0	92.8	91.8	84.0	90.7	91.8
14	EH 9408	89.9	92.7	95.4	67.9	71.8	80.0	67.9	71.8	80.0
15	MO 12258	88.0	93.6	93.5	93.3	92.1	87.1	88.0	92.1	87.1
16	MO 91-1003	94.5	99.3	99.7	100.5	101.9	101.9	94.5	99.3	99.7
17	TW 90401	93.3	91.6	98.1	104.7	104.5	101.7	93.3	91.6	98.1
18	AR 26158-4	100.0	98.3	99.6	99.9	101.0	93.7	99.9	98.3	93.7
19	KY 85C-33-24-16-1-3	77.5	80.1	82.5	72.2	78.5	75.7	72.2	78.5	75.7
20	XW 532	90.0	85.1	88.7	95.3	84.8	87.5	90.0	84.8	87.5
21	XW 535	84.9	97.2	93.8	92.7	94.3	98.3	84.9	94.3	93.8
22	PA 8769-152	93.0	87.4	94.2	101.5	100.0	88.8	93.0	87.4	88.8
23	PA 8769-158	91.9	84.1	98.9	102.5	99.3	87.9	91.9	84.1	87.9
24	L 910097	92.8	93.3	99.0	91.5	93.3	87.7	91.5	93.3	87.7
25	L 910568	93.7	94.5	94.5	79.0	86.3	74.4	79.0	86.3	74.4
26	86981RC1-9-4-X	88.5	87.5	98.5	95.6	85.4	98.6	88.5	85.4	98.5
27	86340C1-22-5-2	93.3	93.8	96.3	89.9	88.6	87.0	89.9	88.6	87.0
28	IL 89-64863	95.7	94.8	96.7	100.6	95.9	99.0	95.7	94.8	96.7
29	T 8141	92.8	91.7	97.5	82.8	76.2	81.3	82.8	76.2	81.3
30	VA 93-52-60	101.0	100.0	100.9	86.5	80.3	84.6	86.5	80.3	84.6
31	VA 93-54-185	98.0	94.5	101.9	81.9	78.2	77.9	81.9	78.2	77.9
32	VA 94-51-20	97.8	99.4	99.4	91.4	99.8	86.0	91.4	99.4	86.0
33	A 89-4032A-1	92.0	94.6	98.1	93.3	87.3	82.4	92.0	87.3	82.4
34	A 92-3122	84.3	86.8	89.5	75.5	79.8	76.4	75.5	79.8	76.4
35	A 92-3327	87.0	86.4	88.9	65.8	68.4	62.2	65.8	68.4	62.2
36	A 92-3409	93.7	91.6	93.9	77.3	79.6	74.4	77.3	79.6	74.4
37	OH 526	92.9	94.8	95.3	88.9	94.2	88.9	88.9	94.2	88.9
38	OH 530	99.7	96.4	102.1	100.4	105.7	101.5	99.7	96.4	101.5
	MINIMUM	77.5	80.1	82.5	65.8	68.4	60.0	65.8	68.4	60.0
	MAXIMUM	102.5	103.2	104.1	104.7	105.7	101.9	99.9	103.2	101.5
	MEAN	93.2	93.3	96.5	89.5	90.3	85.9	87.5	88.1	85.6

9600156

	ENTRY	MICRO T.W. LB/BU			SOFT. EQUIV			FLOUR YIELD		
		N	S	ATL	N	S	ATL	N	S	ATL
1	CARDINAL	57.9	55.7	56.6	57.8	59.8	58.5	71.6	71.3	70.0
2	CALDWELL	58.9	52.5	57.2	62.0	65.4	64.4	71.1	69.7	71.7
3	PION. 2548	59.9	56.4	57.5	59.6	60.1	58.1	69.2	69.3	68.6
4	L 900819	60.4	53.6	58.8	53.1	54.6	51.9	70.8	70.7	70.7
5	AR 361A-9-1	60.2	55.9	61.0	58.6	59.1	56.7	68.1	67.9	69.7
6	MO 9965-52	59.2	53.8	58.5	59.6	60.8	58.3	69.6	69.2	70.8
7	X 1898-1	56.8	53.8	57.5	59.2	62.6	61.5	70.8	71.5	72.0
8	IL 87-1917-1	60.9	59.5	59.6	55.6	57.0	56.2	69.8	71.9	71.0
9	IL 87-5250-2	59.0	56.7	59.5	58.4	56.7	55.6	71.9	72.7	72.3
10	GA 84414-2	59.3	56.0	60.7	58.0	57.3	56.8	68.7	69.2	70.7
11	T 71	56.5	53.2	57.8	64.2	65.1	63.5	69.3	69.9	71.4
12	KY 85C-31-6	59.3	57.5	59.2	58.4	59.8	58.5	71.9	72.2	73.0
13	OH 498	58.5	53.0	59.5	58.7	59.9	57.7	68.3	69.5	69.6
14	EH 9408	58.8	56.6	59.5	57.4	60.0	57.6	68.9	69.5	70.3
15	MO 12258	58.0	56.8	58.5	56.1	55.9	54.2	68.8	70.3	70.4
16	MO 91-1003	59.7	58.7	59.0	56.7	57.5	57.5	70.2	71.3	71.4
17	TW 90401	55.5	52.8	56.7	62.9	64.3	62.4	69.4	69.1	70.5
18	AR 26158-4	60.9	58.0	59.2	58.1	58.2	56.9	71.3	71.1	71.4
19	KY 85C-33-24-16-1-3	57.9	55.7	57.7	55.6	57.6	55.7	66.2	66.8	67.5
20	XW 532	59.3	56.9	57.9	61.2	61.1	62.8	68.4	67.4	68.0
21	XW 535	58.3	56.8	58.7	59.5	61.0	58.5	67.4	70.5	69.8
22	PA 8769-152	59.5	53.9	57.2	63.3	65.4	65.5	68.8	67.7	69.0
23	PA 8769-158	58.4	52.4	58.3	63.4	65.6	64.2	68.6	67.0	70.3
24	L 910097	61.1	58.6	61.2	57.4	57.9	57.3	69.6	69.8	71.2
25	L 910568	61.9	58.2	60.4	56.1	56.3	57.1	70.0	70.3	70.1
26	86981RC1-9-4-X	56.9	52.2	56.3	61.5	63.1	62.0	68.2	68.3	70.8
27	86340C1-22-5-2	58.5	56.6	57.4	54.0	54.6	54.7	70.3	70.6	71.1
28	IL 89-64863	57.7	55.7	57.7	58.8	56.8	58.1	70.3	70.7	70.7
29	T 8141	57.9	56.2	59.3	62.1	63.3	61.0	69.1	68.8	70.3
30	VA 93-52-60	60.5	57.4	61.5	54.5	54.5	54.3	72.9	72.6	73.1
31	VA 93-54-185	60.8	56.3	60.2	55.4	57.8	56.0	71.2	70.3	72.4
32	VA 94-51-20	57.3	55.6	57.6	62.0	60.6	57.7	70.5	71.3	71.4
33	A 89-4032A-1	59.7	56.8	61.0	57.3	57.0	55.9	69.4	70.4	71.2
34	A 92-3122	62.1	57.7	60.6	51.4	52.1	52.8	68.3	69.1	69.5
35	A 92-3327	63.2	60.0	61.1	55.5	55.1	56.5	68.4	68.3	68.8
36	A 92-3409	58.9	54.6	57.2	53.9	55.9	54.3	70.4	70.1	70.6
37	OH 526	59.9	56.8	58.1	55.5	58.2	57.6	69.9	70.3	70.4
38	OH 530	58.2	55.2	57.8	64.0	64.3	64.3	70.5	70.0	71.1
	MINIMUM	55.5	52.2	56.3	51.4	52.1	51.9	66.2	66.8	67.5
	MAXIMUM	63.2	60.0	61.5	64.2	65.6	65.5	72.9	72.7	73.1
	MEAN	59.1	55.9	58.8	58.3	59.3	58.2	69.7	69.9	70.6

Quality Evaluations, 1994-95 Uniform Eastern Soft Red Winter Wheat Nursery

	ENTRY	FLOUR PROT.			MICRO AWRC			COOKIE DIAM.		
		N	S	ATL	N	S	ATL	N	S	ATL
1	CARDINAL	9.28	9.17	9.68	51.8	52.7	54.2	17.81	17.63	17.33
2	CALDWELL	8.61	9.03	8.97	52.7	53.4	54.0	17.92	18.22	18.04
3	PION. 2548	9.00	8.91	9.39	56.0	55.4	57.0	17.40	17.27	16.85
4	L 900819	8.84	9.01	9.61	53.9	54.7	53.7	17.57	17.64	17.34
5	AR 361A-9-1	9.64	9.77	9.98	54.2	53.1	54.2	17.94	18.02	17.63
6	MO 9965-52	9.64	9.57	10.00	52.1	54.0	53.0	18.02	17.85	17.76
7	X 1898-1	9.67	9.14	9.58	51.2	52.1	52.1	18.04	18.06	17.89
8	IL 87-1917-1	10.01	8.71	9.71	53.4	53.0	53.8	17.83	18.11	17.85
9	IL 87-5250-2	8.94	9.20	9.49	51.4	50.3	51.8	18.10	18.08	17.43
10	GA 84414-2	9.47	9.38	8.98	54.5	54.3	54.5	17.45	17.61	17.63
11	T 71	9.33	9.43	8.90	54.9	54.3	54.8	17.93	17.89	17.36
12	KY 85C-31-6	9.14	9.38	9.10	51.8	50.8	52.6	17.99	18.29	18.03
13	OH 498	9.24	9.38	9.19	54.3	52.1	53.2	17.63	17.76	17.90
14	EH 9408	9.48	9.10	9.15	56.0	57.6	55.9	17.13	17.42	17.69
15	MO 12258	9.36	9.30	9.78	52.6	52.9	51.4	17.96	17.95	17.73
16	MO 91-1003	9.82	9.73	9.28	50.1	50.5	50.5	18.27	18.37	18.70
17	TW 90401	9.13	8.97	8.90	50.7	51.8	52.6	18.21	18.14	18.10
18	AR 26158-4	8.82	9.12	9.02	51.6	51.7	52.2	18.18	18.23	17.93
19	KY 85C-33-24-16-1-3	9.55	9.11	9.59	54.6	55.6	54.4	17.23	17.58	17.37
20	XW 532	9.18	9.58	8.88	55.3	54.8	55.9	18.20	17.63	17.83
21	XW 535	9.91	8.87	9.45	53.2	54.0	53.0	17.87	17.99	18.15
22	PA 8769-152	9.21	9.36	9.58	54.5	55.1	56.2	18.49	18.22	17.82
23	PA 8769-158	9.58	9.59	9.22	53.6	54.5	55.1	18.23	18.10	17.69
24	L 910097	10.30	9.88	9.75	53.5	53.8	53.1	17.94	18.04	17.71
25	L 910568	10.65	10.53	10.19	52.6	52.3	54.2	17.27	17.60	17.22
26	86981RC1-9-4-X	9.99	10.34	9.33	53.3	53.9	52.6	17.94	17.46	17.97
27	86340C1-22-5-2	10.65	10.72	10.23	50.7	51.4	50.3	17.87	17.78	17.70
28	IL 89-64863	9.06	9.20	9.19	53.0	52.0	52.4	18.25	18.04	18.14
29	T 8141	8.56	8.64	8.71	57.3	57.9	54.9	17.82	17.53	17.48
30	VA 93-52-60	9.06	9.32	8.91	54.7	54.7	53.6	17.98	17.68	17.75
31	VA 93-54-185	9.80	10.03	9.71	53.2	53.5	54.4	17.52	17.28	17.46
32	VA 94-51-20	8.95	9.29	9.66	53.9	52.1	52.8	17.79	18.07	17.57
33	A 89-4032A-1	9.70	10.03	9.53	52.5	50.4	51.9	17.90	17.62	17.43
34	A 92-3122	10.12	9.79	9.88	52.9	52.7	52.2	17.34	17.49	17.27
35	A 92-3327	10.05	10.24	10.25	55.1	55.1	55.6	16.99	17.13	16.84
36	A 92-3409	9.24	9.14	8.99	54.8	53.6	54.6	17.57	17.44	17.39
37	OH 526	9.31	8.95	8.81	52.2	51.2	52.4	17.76	17.90	17.67
38	OH 530	8.00	8.56	8.32	55.1	52.5	53.8	18.49	18.20	18.17
	MINIMUM	8.00	8.56	8.32	50.1	50.3	50.3	16.99	17.13	16.84
	MAXIMUM	10.65	10.72	10.25	57.3	57.9	57.0	18.49	18.37	18.70
	MEAN	9.43	9.41	9.39	53.4	53.3	53.6	17.84	17.82	17.68

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 26158-4

3. VARIETY NAME
Jaypee

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
Agriculture Building, Room 205
Fayetteville, AR 72701

5. TELEPHONE *(include area code)*
501-575-5725

6. FAX *(include area code)*
501-575-7465

7. PVPO NUMBER
9600156

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: [ ] 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 _____

b. If original rights to variety were owned by a company: [ ] YES [ ] NO
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):*
The original ownershipis not actually by individuals, but a public entity.

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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