No. 200100046

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Louisiana State University Agricultural Center

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, [illegible] CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR CONDITIONING IT [illegible] PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR [illegible]RENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN [illegible]ITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED [illegible]D (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 15[illegible] [illegible]ENDED, 7 U.S.C. 2321 ET SEQ.)

RICE

'Earl'

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 tenth day of November, in the year two thousand and four.

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: Louisiana State University Agricultural Center

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME: LA-9602074

3. VARIETY NAME: EARL

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
Rice Research Station
~~P. O. Box 1429~~
~~Crowley, LA 70527-1429~~
RAD 11/5/04
1373 Caffey Road
Rayne, LA 70578

5. TELEPHONE *(include area code)*: 337/788-7531

6. FAX *(include area code)*: 337/788-7553

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PVPO NUMBER: 200100046

FILING DATE: January 3, 200

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

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)*
Steve Linscombe
Rice Research Station
~~P. O. Box 1429~~
~~Crowley, LA 70527-1429~~
RAD 11/5/04
1373 Caffey Road
Rayne, LA 70578

FEES RECEIVED

FILING AND EXAMINATION FEES: $ 2,705 —
DATE Nov. 9, 2000

CERTIFICATION FEE: $ 432.00
DATE 10/7/04

11. TELEPHONE *(Include area code)*: 337/788-7531

12. FAX *(Include area code)*: 337/788-7553

13. E-MAIL: slinscombe@agctr.lsu.edu

14. CROP KIND *(Common Name)*: Rice

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)
- a. [X] Exhibit A. Origin and Breeding History of the Variety
- b. [X] Exhibit B. Statement of Distinctness
- c. [X] Exhibit C. Objective Description of Variety
- d. [ ] Exhibit D. Additional Description of the Variety *(Optional)*
- e. [X] Exhibit E. Statement of the Basis of the Owner's Ownership
- f. [X] Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be depositied 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(a) of the Plant Variety Protection Act)*
[X] 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? [X] YES [ ] NO
IF YES, WHICH CLASSES? [X] FOUNDATION [X] REGISTERED [X] CERTIFIED

21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? [X] YES [ ] NO
IF YES, SPECIFY THE NUMBER 1, 2, 3, *etc.* 1 FOUNDATION 1 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?
[X] 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 [X] NO
IF YES, 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)* Steve Linscombe		NAME *(Please print or type)*	
CAPACITY OR TITLE Professor	DATE 10/23/00	CAPACITY OR TITLE	DATE

INSTRUCTIONS 20010046

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 500, 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/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).*

21. *See Section 83 of the Act for the Contents and Term of Plant Variety Protection.*

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

23. *See Section 5.5 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.)*

March 2000 - Foundation seed - to USA only.

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 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.

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 collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 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, gender, religion, age, disability, political beliefs, sexual orientation, and 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 the 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.

EXHIBIT A

Origin and Breeding Statement

EARL – Development History Pedigree: Mercury/Rico 1//Bengal		
Year	**Generation**	**ID**
1990	Cross	90CR072
1991	F_1	91T1070
1992	F_2	92F7148
1993	F_3	9313550
1994	F_4	9431618
1995	F_5	PY-9502172
1996	F_6	AY, URN – 9602074
1997	F_7	AY, URN
1998	F_8, F_9	Headrow (PR); Breeder (RRS)
1999	F_{10}	Foundation
2000	F_{11}	Commerical Production

Details of stages of selection and multiplication:

Earl is an early, high yielding, conventional height medium-grain rice variety. Earl was developed from a modified program of single seed descent. From the original cross made in 1990, 6 F_1 plants were grown in 1991. The seed from these F_1 plants were bulked and used to plant a large F_2 population in 1992. One panicle was selected from each of 300 F_2 plants and these were grown as F_3 panicle rows in 1993. Row number 9313550 was selected for advancement. Five panicles were selected from this row and replanted as F_4 panicle rows in 1994. Row number 9431618 was selected for advancement. Ten panicles were selected from this row then the remaining seed were bulked. The bulked seed were used for yield testing in 1995 while the 10 panicles were planted as F_5 panicle rows. This material was again yield tested in 1996 and 1997. The material was also reselected and advanced as panicle rows in 1996 (F_6) and 1997 (F_7). In the winter of 1997-1998, a 700-headrow increase was grown at the winter nursery facility in Puerto Rico (F_8). This seed was used to produce breeder seed at the Rice Research Station in 1998 (F_9). The breeder seed was used to produce foundation seed on the Rice Research Station in 1999 (F_{10}). This is the seed that was released to growers in 2000.

Earl has been observed for nine generations of increase and multiplication (1993-2000) and has exhibited a high level of uniformity and stability in later generations.

Earl was originally selected in the F_4 generation as a conventional height, early maturing line with good yield potential and resistance to predominant blast (*Piricularia gresia*) races. It has displayed excellent yield potential and excellent yield potential and quality characteristics through yield testing for several years.

In each generation of multiplication and purification ($F_4 - F_{10}$), the line was selected for uniformity and purity.

Variants observed and removed from increase fields of Earl included any combination of the following: taller, shorter, pubescent, awned, long-grain, short-grain, intermediate grain, earlier, later, and gold hull. The total number of variants numbered fewer than 1 per 5,000.

EXHIBIT B

Statement of Distinctness

Earl most closely resembles the rice variety 'Bengal.' It has less lodging resistance, however. Earl has displayed adaptation throughout the southern United States rice producing regions.

Other differences between Earl and Bengal are listed below:

Characteristic	Earl	vs	Bengal
Panicle type	Compact		Intermediate
Panicle axis	Straight		Droopy
Awns (After full heading)	Absent		Short and partly awned
Lemma and Palea pubescence	Glabrous		Hairs Lemma keel
Endosperm translucency	Clear		Intermediate
Flag leaf angle	Intermediate		Erect

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U.S. DEPARTMENT OF AGRICULTURE
PLANT VARIETY PROTECTION OFFICE, AMS, USDA
NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500
10301 BALTIMORE Blvd.
BELTSVILLE, MD 20705

OBJECTIVE VARIETY DESCRIPTION
RICE (*Oryza sativa*)

Name of Applicant(s)	Temporary Designation	Variety Name
STEVE LINSCOMBE	LA-9602074	EARL

Address (Street and No. or R.F.D. No., City, State, and Zip Code)

LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
RICE RESEARCH STATION
P.O. BOX 1429
CROWLEY, LA 70527-1429

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PVPO Number
200100046

Place the appropriate number that describes the character of this variety in the spaces provided below. These numbers are also code nu corresponding to descriptors developed by IBGR-IRRI Rice Advisory Committee and the US Rice Crop Advisory Committee. Breeder demonstrate novelty more readily by describing as many characters as is possible.

1. MATURITY - Days to Heading (Seeding to 50% Heading):

A. South: (Location: CROWLEY, LA) at 165 kg/ha (Nitrogen rate)

98 Number of days

___ Days earlier than Check variety: ___

98 Days same as Check variety: Bengal

6 Days later than Check variety: Lafitte

2 Maturity Class (50% heading) - South: 1 = Very early (less than 86 days) 2 = Early (86 - 100) 3 = Intermediate (101 - 115) 4 = Late (more than 115)

B. California: (Location: ___) at ___ kg/ha (Nitrogen rate)

___ Number of days

___ Days earlier than Check variety: ___

___ Days same as Check variety: ___

___ Days later than Check variety: ___

___ Maturity Class (50% heading) - California: 1 = Very early (less than 91 days) 2 = Early (91 - 97) 3 = Intermediate (98 - 104) 4 = Late (more than 104 days)

2. CULM:

1 ANGLE (Degrees from Perpendicular after Flowering:

1 = Erect (less than 30°) 3 = Intermediate (about 45°) 5 = Open (about 60°)
7 = Spreading (more than 60° but the culms do not rest on the ground)
9 = Procumbent (the culm or its lower part rests on the ground surface)

2. CULM: (continued)

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LENGTH

107.0 cm (Soil level to top of extended panicle on main stem)

2.0 cm Shorter than Check variety: Mars

Length same as Check variety: _____

10.0 cm Longer than Check variety: Bengal

3 HEIGHT CLASS: 1 = Semidwarf 2 = Short 3 = Medium 4 = Tall

1 INTERNODE COLOR (After flowering): 1 = Green 2 = Light Gold 3 = Purple lines 4 = Purple

3 STRENGTH (Lodging resistance): 1 = Strong (no lodging) 3 = Moderately strong (most plants l
5 = Intermediate (most plants lodged) 7 = Weak (most plants flat)
9 = Very weak (all plants flat)

3. FLAG LEAF (After Heading):

32.0 cm LENGTH 16.0 mm WIDTH

1 PUBESCENCE: 1 = Glabrous 2 = Intermediate 3 = Pubescent

3 LEAF ANGLE (after heading): 1 = Erect 3 = Intermediate 5 = Horizontal 7 = Descending

2 BLADE COLOR: 1 = Pale Green 2 = Green 3 = Dark Green 4 = Purple tips
5 = Purple margins 6 = Purple blotch 7 = Purple

1 BASAL LEAF SHEATH COLOR: 1 = Green 2 = Purple lines 3 = Light purple 4 = Purple

4. LIGULE:

1.2 mm LENGTH (from base of collar to the tip, at late vegetative stage)

1 COLOR (Late vegetative state): 1 = White 2 = Purple lines 3 = Purple

2 SHAPE: 1 = Acute to acuminate 2 = 2-Cleft 3 = Truncate

1 COLLAR COLOR (late vegetative stage): 1 = Pale green 2 = Green 3 = Purple

1 AURICLE COLOR (late vegetative stage): 1 = Pale green 2 = Purple

5. PANICLE:

20.0 cm LENGTH

1 TYPE: 1 = Compact 5 = Intermediate 9 = Open

2 SECONDARY BRANCHING: 1 = Absent 2 = Light 3 = Heavy 4 = Clustering

2 EXSERTION (near maturity): 1 = Less than 90% 2 = 90 - 99% 3 = 100% exserted

1 AXIS: 1 = Straight 2 = Droopy

1 SHATTERING: 1 = Very low (less than 1%) 2 = Low (1 - 5%) 3 = Intermediate (6 - 25%)
4 = Moderately high (26 - 50%) 5 = High (more than 50%)

2 THRESHABILITY: 1 = Difficult 5 = Intermediate

6. GRAIN (Spikelet):

0 AWNS (after full heading): 0 = Absent 1 = Short and partly awned 5 = Short and fully awned 7 = Long and partly awned 9 = Long and fully awned

2 APICULUS COLOR (at maturity): 1 = White 2 = Straw 3 = Brown (tawny) 4 = Red 5 = Red apex 6 = Purple 7 = Purple apex

1 STIGMA COLOR: 1 = White 2 = Light green 3 = Yellow 4 = Light purple 5 = Purple

0 LEMMA AND PALEA COLOR (at maturity):

0 = Straw
1 = Gold and/or gold furrows on straw background
2 = Brown spots on straw (pie
3 = Brown furrows on straw
4 = Brown (tawny)
5 = Reddish to light purple
6 = Purple spots on straw
7 = Purple furrows on straw
8 = Purple
9 = Black
10 = White

1 LEMMA AND PALEA PUBESCENCE: 1 = Glabrous 2 = Hairs on lemma keel 3 = Hairs on upper portion 4 = Short hairs 5 = Long hairs (velvety)

1 SPIKELET STERILITY (at maturity): 1 = Highly fertile (>90%) 3 = Fertile (75-90%) 5 = Partly sterile (50- 7 = Highly sterile (<50% to trace) 9 = Completely sterile (0%)

7. GRAIN (Seed):

2 SEED COAT (bran) COLOR: 1 = White 2 = Light brown 3 = Speckled brown 4 = Brown 5 = Red 6 = Variable purple 7 = Purple

1 ENDOSPERM TYPE: 1 = Nonglutinous (nonwaxy) 2 = Glutinous (waxy) 3 = Indeterminate

1 ENDOSPERM TRANSLUCENCY: 1 = Clear 5 = Intermediate 9 = Opaque

1 ENDOSPERM CHALKINESS: 0 = None 1 = Small (less than 10% of sample) 5 = Medium (10-20% of sample) 9 = Large (more than 20% of sample)

0 SCENT (Aroma): 0 = Nonscented 1 = Lightly scented 2 = Scented

SHAPE CLASS (length/width ratio):

2 PADDY 1 = Short (2.2:1 and less) 2 = Medium (2.3:1 to 3.3:1) 3 = Long (3.4:1 and more)

2 BROWN 1 = Short (2.0:1 and less) 2 = Medium (2.1:1 to 3.0:1) 3 = Long (3.1:1 and more)

2 MILLED 1 = Short (1.9:1 and less) 2 = Medium (2.0:1 to 2.9:1) 3 = Long (3.0:1 and more)

MEASUREMENTS:

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (grams)
Paddy	8.15	3.13	2.07	2.63	26.7
Brown	6.36	2.73	1.99	2.33	22.6
Milled	6.01	2.59	1.92	2.32	20.7

19.8 Milling quality (% hulls) 59 Milling yield (% whole kernel (head) rice to rough rice)

7.4 % Protein 12.5 % Amylose (TABLE 1)

Alkali Spreading value: 1.5% KOH Solution 6.1 1.7% KOH Solution

7. GRAIN (Seed): (continued)

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7 GELATINIZATION TEMPERATURE TYPE: 1 = High 5 = Intermediate 7 = Low

Amylographic Paste Viscosity (Brabender Units)

Peak	Hot Paste	Cooled Paste	'Breakdown'	'Setback'
475	260	575	220	90

8. RESISTANCE TO LOW TEMPERATURE:

2 GERMINATION AND SEEDLING VIGOR: 1 = Low 2 = Medium 3 = High

2 FLOWERING (Spikelet fertility): 1 = Low 2 = Medium 3 = High

9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:

2 VIGOR: 1 = Low 2 = Medium 3 = High

10. BLAST RESISTANCE (*Pyricularia Oryzae*). (International races found under references)

0 = Immune 1 = Resistant 3 = Moderately resistant 5 = Intermediate 7 = Moderately susceptible 9 = Suscep

Group	IB					IC		ID		IE	IG	IH
Number	1	5	45	49	54	1	17	1	13	1	1	1
Resistance	7	NR	3	7	1	NR	5	NR	NR	1	3	5

11. RESISTANCE TO OTHER DISEASES:

0 = Immune 1 = Resistant 3 = Moderately resistant 5 = Intermediate 7 = Moderately susceptible 9 = Suscep

1 Narrow Brown Leaf Spot *Cercospora oryzae*

3 Leaf Smut *Entyloma oryzae*

3 Brown Leaf Spot *Helminthosporium oryzae* (=*Bipolaris oryzae*) (=*Drechslera oryzae*)

NR Leaf Scald *Gerlachia oryzae*

NR Hoja Blanca Virus

NR Sheath Rot *Sarocladium oryzae*

NR Pythium Seedling Blight *Pythium* sp.

NR Sheath Spot *Rhizoctonia oryzae*

NR Other: _____

NR Aggregate Sheath Spot *Rhizoctonia oryzae-sativae*

NR Straight Head

NR Kernel Smut *Neovossia horrida* (=*Tilletia barclayana*)

NR White Tip Nematode *Aphelenchoides besseyi*

NR Stem Rot *Sclerotium oryzae*

NR Bacterial Blight *Xanthomonas campestris* pv. *oryzae*

3 Sheath Blight *Rhizoctonia solani*

12. INSECT RESISTANCE:

0 = Immune 1 = Resistant 3 = Moderately resistant 5 = Intermediate 7 = Moderately susceptible 9 = Suscept

NR Grasshopper

NR Rice Leafhopper

NR Rice Hispa

NR Rice Midge

NR Leaf Skipper

9 Rice Stink Bug *Oebalus pugnax*

NR Swarm Caterpillar

9 Rice Water Weevil *Lissorhoptrus oryzophilus*

9 Rice Stalk Borer *Chilo plejadellus*

NR Sugarcane Borer *Diatraea saccharalis*

9

13. OTHER DESCRIPTORS: If there are other characters that describe this variety, please indicate below:

REFERENCES

1. C. R. Adair *et al.* 1972. Rice in the United States: Varieties and Production. USDA Handbook No. 289 (Rev.), 124 pp.

2. J. G. Atkins *et al.* 1967. An International Set of Rice Varieties for Differentiating Race of *Pyricularia Oryzae*. Phytopath. 57:297-301.

3. IBPGR-IRRI Rice Advisory Committee. 1980. Descriptors for Rice *Oryza sativa* L.). International Rice Research Institute. 21 pp.

4. K. C. Ling and S. H. Ou. 1969. Standardization of the International Race Numbers of *Pyricularia Oryzae*. Phytopath. 59:339-342.

5. B. D. Webb *et al.* 1985. Utilization Characteristics and Qualities of United States Rice. In Proceedings on Rice Grain Quality and Marketing. International Rice Research Institute (IRRI), Los Banos. Philippines. p. 25-35

10

COMMERCIAL-ADVANCED TESTS

The Rice Breeding project annually conducts yield trials on commercial rice varieties and advanced experimental lines at several locations throughout the rice growing regions of Louisiana.

These tests were conducted at eight locations in 1999. These included the Rice Research Station and on-farm test sites in Calcasieu, East Carroll, Jeff Davis, Morehouse, Rapides, and Vermilion (two locations) parishes. Some of these locations were conducted in cooperation with the Rice Fertilization Project.

These tests include the following entries.

Entry	Pedigree	Grain Type*	Source**
201	AR 1142/LA 2031	L	LAES
202	902207x2//NWBT/KATY	L	LAES
203	KBNT/JODN	L	LAES
204	CPRS/KBNT	L	LAES
205	LBLEx2-2//BJ-1*F1//...	L	LAES
206	CPRS/KBNT	L	LAES
207	AR 1142/JODN	L	LAES
208	LMNT/20001-5/3/LMNT/L202	L	LAES
209	KBNT/JODN	L	LAES
210	JKSN/CPRS	L	LAES
211	JODN//CPRS/MBLE	L	LAES
212	KBNT//CPRS/MBLE	L	LAES
213	JKSN//902207X2*2	L	LAES
214	KATY/STBN//MBLE	L	LAES
215	EMBRAPA 200//CPRS	L	LAES
216	CPRS/LGRU	L	LAES
217	EARL	M	LAES
218	BNGL//MERC/RICO	M	LAES
219	S-101/RICO	S	LAES
220	S-101/RICO	S	LAES
221	S-101/RICO	S	LAES
222	BNGL/RICO	M	LAES
223	KOKAHUROSE/BNGL	M	LAES
224	BNGL/CM101	M(W)	LAES
225	JSMN/DLLA	L(A)	LAES
226	DMSI//LMNT/NWBT/3/...(9502171)	L(A,E)	LAES
227	DLMT 88462.../4/DMSI	L(A,E)	LAES
228	COCODRIE	L	LAES
229	DREW	L	AAES
230	CYPRESS	L	LAES
231	JACKSON	L	TAES,USDA;MAFES
232	JEFFERSON	L	TAES,USDA
233	JODON	L	LAES

Continued.

Continued.

Entry	Pedigree	Grain Type*	Source**
234	LAGRUE	L	AAES
235	MAYBELLE	L	TAES,USDA
236	WELLS	L	AAES
237	MADISON	L	TAES,USDA
238	DELLROSE	L(A)	LAES
239	DIXIEBELLE	L	TAES,USDA
240	KAYBONNET	L	AAES
241	LEMONT	L	TAES,USDA
242	TORO 2	L	LAES
243	PRISCILLA	L	MAFES
244	BENGAL	M	LAES
245	LAFITTE	M	LAES
246	DELLA	L(A)	LAES
247	JACINTO	L	TAES,USDA
248	CADET	L	TAES,USDA
249	9601096 291643/MARS	S	AAES
250	9601099 291643/MARS	S	AAES
251	9801148 BRAZ/TBNT/3/164986-4/NV66/NTAI/4/BNGL	M	AAES
252	9801041 LMNT//82CAY21/CIA83/MARS/TBNT	L	AAES
253	MS 962041	L	MAFES
254	TX 5072	L	TAES,USDA
255	98LL0001	M	LAES
256	98LL0201	M	LAES
257	98LL0401	M	LAES
258	98LL0601	M	LAES
259	98LL1301	M	LAES
260	RUSH 2928	L	LAES

* L = Long grain, M = Medium grain, S = Short grain (A = Aromatic, E = Elongating, and W = Waxy).
** AAES - Rice Research and Extension Center, Arkansas Agricultural Experiment Station, Stuttgart, AR; LAES - Rice Research Station, Louisiana Agricultural Experiment Station, LSU Agricultural Center, Crowley, LA; MAFES - Delta Research and Extension Center, Mississippi Agricultural and Forestry Experiment Station, Stoneville, MS; and TAES, USDA, Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX.

Tests were conducted using standard agronomic practices for the individual locations. Seeding dates were Rice Research Station, March 23; Calcasieu, March 26; East Carroll, April 30; Jeff Davis, March 18; Morehouse, May 4; Rapides, April 20; Vermilion (Gueydan), March 25; and Vermilion (Pine Island), April 8. Results from these studies are shown in tables 1-8.

Table 1. Agronomic and milling performance of 1999 Commercial Advanced Test, Crowley, LA.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Lodging (%)	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
240	KAYBONNET	4	42	73		63.8	71.5	11048	3105	14153
234	LAGRUE	4	41	70		61.1	70.2	10390	3271	13661
208	LMNT/20001-5/3/LMNT/L202	5	35	73		57.8	68.8	10509	2929	13438
206	CPRS/KBNT	5	33	75		66.0	71.8	10207	2952	13159
216	CPRS/LGRU	5	38	71		63.1	71.2	10552	2490	13042
229	DREW	4	44	74		65.7	72.8	10431	2390	12821
222	BNGL/RICO	5	43	77		55.9	71.0	9893	2841	12734
228	COCODRIE	4	37	71		59.9	68.9	10081	2645	12726
260	RUSH 2928	5	40	71		53.3	69.7	9790	2854	12644
218	BNGL//MERC/RICO	4	42	77		65.9	70.4	10775	1785	12560
221	PY 678	5	41	72		62.8	68.6	10606	1895	12501
249	9601096	5	38	69	87	68.2	73.3	10194	2235	12429
212	KBNT//CPRS/MBLE	4	31	72		62.1	71.3	9708	2666	12374
203	KBNT/JODN	4	33	74		64.6	70.3	10344	1915	12259
250	9601099	5	39	70	73	64.8	71.1	9828	2369	12197
202	902207x2//NWBT/KATY	4	36	78		53.3	64.5	9585	2482	12067
236	WELLS	4	38	71		61.8	70.9	9948	2099	12047
252	9801041	4	34	76		62.8	69.4	9054	2980	12034
238	DELLROSE	4	36	72		63.9	70.4	8373	3540	11913
211	JODN//CPRS/MBLE	5	35	71		61.9	68.9	10354	1550	11904
210	JKSN/CPRS	4	38	75		61.8	68.3	9571	2274	11845
253	MS 962041	5	39	71		60.8	71.4	8895	2852	11747
225	JSMN/DLLA	5	42	85		37.7	66.4	8702	2968	11670
239	DIXIEBELLE	6	32	71		63.9	70.6	8429	3165	11594
204	CPRS/KBNT	5	34	80		62.6	70.7	8429	3144	11573
233	JODON	5	37	71		64.0	70.8	9274	2266	11540
230	CYPRESS	4	37	77		63.2	69.2	9818	1711	11529
242	TORO-2	4	43	78		65.2	70.9	10057	1437	11494
215	EMBRAPA 200//CPRS	4	37	71		65.2	71.4	8645	2826	11471
205	LBLEx2-2//BJ-1*F1//...	5	36	73		59.8	68.3	9610	1844	11454
237	MADISON	4	34	74		64.9	71.9	8439	2846	11285
207	AR 1142/JODN	5	34	72		61.0	68.9	9724	1542	11266
214	KATY/STBN//MBLE	5	36	73		61.1	68.0	8684	2488	11172
243	PRISCILLA	5	37	74		56.1	68.0	7921	3208	11129
245	LAFITTE	4	38	70	27	64.1	69.1	9400	1655	11055
209	KBNT/JODN	4	36	74		60.9	68.1	8334	2629	10963
235	MAYBELLE	5	38	64		67.6	73.7	8339	2621	10960
256	98LL0201	5	38	81		63.8	69.6	8829	2043	10872
219	SP 361	6	40	71		59.6	69.1	9656	1213	10869
258	98LL0601	4	37	81		64.4	69.6	8818	2047	10865
254	TX 5072	6	37	75		68.2	72.0	8620	2232	10852
• 217	EARL	4	44	77	3	64.5	70.0	9995	847	10842
241	LEMONT	5	36	75		66.2	71.8	8466	2285	10751
220	PY 678	6	43	77		40.7	69.9	9922	753	10675
232	JEFFERSON	5	34	67		59.8	73.0	7511	3055	10566

Continued.

Table 1. Continued.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Lodging (%)	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
247	JACINTO (TX3029)	4	39	73	27	63.5	70.2	8202	2337	10539
213	JKSN//902207X2*2	4	33	77		62.4	69.2	7938	2552	10490
231	JACKSON	4	39	70		62.6	70.6	8873	1583	10456
• 244	BENGAL	4	40	79		62.5	69.2	9003	1446	10449
255	98LL0001	4	37	81		63.5	69.3	8221	2201	10422
251	9801148	5	37	81		64.3	69.9	8218	2054	10272
223	KOKAHUROSE/BNGL	5	35	73		63.7	68.5	8266	1624	9890
259	98LL1301	5	36	80		63.7	69.2	7630	2227	9857
257	98LL0401	5	35	80		65.8	71.4	7585	2224	9809
227	DLMT 88462.../4/DMSI	6	40	83		59.4	69.3	8436	1362	9798
224	BNGL/CM101	6	42	82		47.0	67.0	7815	1978	9793
248	CADET (TX3006)	5	37	62		62.9	68.5	7815	1859	9674
201	AR 1142/LA 2031	5	32	75		64.3	69.2	7737	1844	9581
226	DMSI//LMNT/NWBT/3/...	4	44	65	27	60.2	70.7	5826	2646	8472
246	DELLA	4	52	85	43	63.3	70.2	6641	450	7091
C.V. %		10.1	3.6	2.4		7.6	1.7	9.8	19.9	9.1
LSD (0.05)		0.7	2	3		9.4	2.4	1437	726	1680

* Subjective rating 1 to 9, where 1 = excellent, 9 = poor.

Table 2. Agronomic and milling performance of 1999 Commercial Advanced Test, Calcasieu, LA.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
218	BNGL//MERC/RICO	4	37	84	64.2	75.2	9037	2942	11979
222	BNGL/RICO	5	36	84	59.7	74.0	8033	2682	10715
219	SP 361	5	34	79	65.2	73.1	8507	2132	10639
234	LAGRUE	4	42	85	60.6	70.9	8693	1718	10411
221	PY 678	5	36	79	67.1	71.6	7883	2486	10369
250	9601099	5	36	77	64.5	72.2	7977	2392	10369
240	KAYBONNET	5	39	86	67.3	73.2	7638	2519	10157
232	JEFFERSON	4	33	79	62.4	71.6	7173	2871	10044
• 244	BENGAL	4	35	87	68.0	74.0	8311	1657	9968
223	KOKAHUROSE/BNGL	5	34	82	60.8	72.5	6893	3074	9967
206	CPRS/KBNT	4	32	85	67.9	74.1	7602	2319	9921
208	LMNT/20001-5/3/LMNT/L202	5	34	84	62.4	70.8	8591	1329	9920
224	BNGL/CM101	6	40	88	59.5	70.3	7085	2829	9914
258	98LL0601	4	33	87	70.0	74.8	7739	2162	9901
• 217	EARL	4	39	84	65.1	74.5	9119	666	9785
257	98LL0401	4	32	87	67.9	74.6	7679	2105	9784
243	PRISCILLA	5	36	84	60.8	71.1	7402	2301	9703

Continued.

Table 2. Continued.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
256	98LL0201	4	33	87	64.8	74.3	7674	2013	9687
249	9601096	5	34	78	68.9	75.3	7334	2345	9679
229	DREW	5	42	89	63.7	71.8	7622	1998	9620
209	KBNT/JODN	4	35	86	65.9	73.0	7673	1886	9559
245	LAFITTE	4	36	79	72.8	75.3	7446	2092	9538
252	9801041	4	33	89	67.6	72.6	7057	2470	9527
220	PY 678	5	37	84	63.6	73.1	8462	1037	9499
215	EMBRAPA 200//CPRS	4	35	85	62.7	74.0	6985	2503	9488
238	DELLROSE	4	34	84	68.8	74.1	6799	2650	9449
214	KATY/STBN//MBLE	4	34	86	67.6	73.4	7436	1983	9419
216	CPRS/LGRU	5	37	87	67.2	73.3	7250	2146	9396
228	COCODRIE	4	35	85	65.3	73.4	7422	1959	9381
260	RUSH 2928	5	41	84	58.4	72.9	8404	975	9379
236	WELLS	3	39	86	64.1	74.4	7609	1726	9335
251	9801148	5	35	86	63.6	73.1	7611	1634	9245
212	KBNT//CPRS/MBLE	4	29	86	66.0	72.7	7565	1675	9240
255	98LL0001	4	34	87	59.7	74.5	7249	1984	9233
205	LBLEx2-2//BJ-1*F1//...	4	35	81	62.8	72.0	7565	1650	9215
204	CPRS/KBNT	6	32	88	67.7	75.1	6624	2534	9158
207	AR 1142/JODN	5	33	86	66.5	73.6	7976	1151	9127
233	JODON	6	33	84	65.8	73.3	7276	1819	9095
259	98LL1301	4	33	88	68.9	73.6	7037	2004	9041
203	KBNT/JODN	4	32	84	67.3	74.0	7737	1208	8945
202	902207x2//NWBT/KATY	4	33	89	64.8	73.6	6875	2068	8943
211	JODN//CPRS/MBLE	4	35	83	64.4	74.9	7610	1257	8867
210	JKSN/CPRS	4	34	87	68.3	73.8	7161	1490	8651
242	TORO-2	4	39	84	66.6	73.2	6825	1733	8558
225	JSMN/DLLA	5	42	90	60.0	69.7	6459	2092	8551
226	DMSI//LMNT/NWBT/3/...(9502171)	5	43	78	52.2	68.8	5504	3011	8515
201	AR 1142/LA 2031	5	31	88	64.3	72.6	7634	833	8467
230	CYPRESS	4	33	88	67.2	73.2	6852	1551	8403
247	JACINTO (TX3029)	5	36	83	68.7	74.1	6486	1823	8309
253	MS 962041	4	35	84	65.0	73.4	6395	1618	8013
213	JKSN//902207X2*2	4	33	88	64.4	73.2	6742	1240	7982
248	CADET (TX3006)	5	33	73	58.6	66.6	6335	1635	7970
241	LEMONT	4	34	87	68.8	75.1	6489	1375	7864
227	DLMT 88462.../4/DMSI	4	40	86	65.0	71.2	6455	1092	7547
235	MAYBELLE	5	37	77	62.9	70.2	6539	917	7456
231	JACKSON	5	39	88	64.7	72.8	6849	604	7453
254	TX 5072	6	34	87	67.9	73.2	5667	1607	7274
239	DIXIEBELLE	6	32	84	65.9	71.7	5867	1199	7066
237	MADISON	4	33	87	66.2	73.4	5652	1281	6933
246	DELLA	5	50	89	64.7	72.2	5272	1098	6370
C.V. %		12.3	3.5	1.9	7.7	2.4	7.7	19.0	7.2
LSD (0.05)		0.8	2	3	9.9	3.5	909	570	1070

* Subjective rating 1 to 9, where 1 = excellent, 9 = poor.

Table 3. Agronomic and milling performance of 1999 Commercial Advanced Test, East Carroll Parish, LA.

Entry	Pedigree	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
234	LAGRUE	49	83	10293
• 244	BENGAL	41	78	10167
216	CPRS/LGRU	45	76	10112
260	RUSH 2928	49	78	10096
• 217	EARL	44	76	9611
208	LMNT/20001-5/3/LMNT/L202	44	76	9507
236	WELLS	43	81	9484
218	BNGL//MERC/RICO	42	78	9449
222	BNGL/RICO	42	78	9304
229	DREW	49	84	9209
259	98LL1301	38	80	9140
207	AR 1142/JODN	40	79	9116
228	COCODRIE	42	78	9045
240	KAYBONNET	50	80	9006
220	PY 678	43	74	8916
255	98LL0001	35	80	8870
211	JODN//CPRS/MBLE	40	77	8836
251	9801148	39	77	8772
210	JKSN/CPRS	41	81	8750
230	CYPRESS	43	84	8614
219	SP 361	43	71	8578
258	98LL0601	37	80	8507
243	PRISCILLA	42	78	8479
233	JODON	41	76	8469
239	DIXIEBELLE	38	74	8455
205	LBLEx2-2//BJ-1*F1//...	40	76	8440
245	LAFITTE	41	74	8346
257	98LL0401	37	80	8311
227	DLMT 88462.../4/DMSI	45	79	8310
242	TORO-2	44	80	8274
213	JKSN//902207X2*2	40	82	8249
256	98LL0201	37	80	8196
203	KBNT/JODN	36	78	8161
225	JSMN/DLLA	44	81	8158
224	BNGL/CM101	42	79	8141
241	LEMONT	37	83	8114
204	CPRS/KBNT	38	85	8099
231	JACKSON	41	76	8076
212	KBNT//CPRS/MBLE	37	79	8053
250	9601099	43	71	7988
206	CPRS/KBNT	39	80	7897
221	PY 678	44	73	7851
249	9601096	39	70	7844
201	AR 1142/LA 2031	37	81	7743
214	KATY/STBN//MBLE	40	79	7636

Continued.

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Table 3. Continued.

Entry	Pedigree	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
253	MS 962041	41	72	7580
232	JEFFERSON	39	71	7556
209	KBNT/JODN	42	78	7425
252	9801041	37	83	7366
202	902207x2//NWBT/KATY	39	85	7337
254	TX 5072	37	84	7192
215	EMBRAPA 200//CPRS	40	80	7126
247	JACINTO (TX3029)	39	77	7109
237	MADISON	36	83	6890
223	KOKAHUROSE/BNGL	38	84	6778
246	DELLA	53	79	6648
238	DELLROSE	41	76	6616
235	MAYBELLE	42	67	6034
248	CADET (TX3006)	39	63	4276
226	DMSI//LMNT/NWBT/3/...(9502171)	50	74	3939
C.V. %		4.7	1.2	5.9
LSD (0.05)		3	2	788

Table 4. Agronomic and milling performance of 1999 Commercial Advanced Test, Jeff Davis Parish, LA.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Lodging (%)	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
218	BNGL//MERC/RICO	4	40	86		62.6	72.7	9709	3487	13196
220	PY 678	4	37	83		66.4	72.6	9573	2759	12332
208	LMNT/20001-5/3/LMNT/L202	5	34	83		63.5	70.8	8169	3502	11671
219	SP 361	5	37	76		69.2	73.5	8585	3042	11627
251	9801148	5	35	87		68.2	71.7	8329	3227	11556
222	BNGL/RICO	4	35	85		64.6	72.0	8293	3242	11535
• 244	BENGAL	4	35	88		67.6	71.6	8457	3009	11466
• 217	EARL	4	40	85		46.8	73.2	8543	2698	11241
236	WELLS	4	37	88		65.3	73.1	7911	3308	11219
234	LAGRUE	5	41	86		63.4	72.1	8163	3026	11189
207	AR 1142/JODN	5	33	84		67.2	72.3	8039	3024	11063
255	98LL0001	4	33	87		68.0	71.3	8122	2922	11044
210	JKSN/CPRS	4	33	87		64.9	72.3	7842	3110	10952
229	DREW	4	40	87		69.4	72.1	7338	3579	10917
256	98LL0201	3	34	84		67.7	71.1	8095	2779	10874
212	KBNT//CPRS/MBLE	4	30	87		68.2	72.9	7385	3301	10686
252	9801041	3	31	90		66.5	71.6	7175	3430	10605
215	EMBRAPA 200//CPRS	4	35	84		70.7	74.2	6806	3718	10524
214	KATY/STBN//MBLE	4	33	85		66.8	71.1	7443	3062	10505
257	98LL0401	4	32	85		68.4	71.9	7416	3050	10466
203	KBNT/JODN	4	31	84		67.1	72.8	7850	2576	10426
221	PY 678	5	38	80		69.5	73.0	7647	2704	10351
206	CPRS/KBNT	4	31	86		68.5	73.4	7270	2963	10233
260	RUSH 2928	5	39	84		55.4	70.4	7524	2654	10178
259	98LL1301	4	32	85		69.3	72.3	7450	2726	10176
250	9601099	5	37	76		68.4	74.3	7850	2241	10091
258	98LL0601	4	32	85		65.9	71.4	7319	2688	10007
240	KAYBONNET	4	39	87		67.4	73.6	6671	3332	10003
211	JODN//CPRS/MBLE	4	34	84		66.0	72.4	7572	2394	9966
209	KBNT/JODN	4	36	85		66.9	72.3	7363	2573	9936
202	902207x2//NWBT/KATY	4	33	87		66.3	72.0	6925	2994	9919
238	DELLROSE	4	36	83		70.9	71.9	6599	3303	9902
237	MADISON	4	32	88		67.0	72.4	6663	3216	9879
225	JSMN/DLLA	5	44	92		22.6	63.2	7382	2472	9854
228	COCODRIE	4	35	84		67.0	72.3	7416	2345	9761
205	LBLEx2-2//BJ-1*F1//...	4	34	84		66.5	72.3	7619	2122	9741
242	TORO-2	4	39	87		68.6	73.4	7584	2139	9723
249	9601096	4	35	76		70.2	75.1	7769	1950	9719
243	PRISCILLA	3	35	84		65.3	71.8	6670	2989	9659
216	CPRS/LGRU	5	36	84		71.2	73.9	6654	2971	9625
241	LEMONT	4	34	89		67.5	72.7	6945	2680	9625
213	JKSN//902207X2*2	4	33	90		64.0	70.2	7160	2404	9564
204	CPRS/KBNT	4	33	90		66.7	72.3	6640	2904	9544
201	AR 1142/LA 2031	5	31	87		62.7	69.8	7323	2199	9522
233	JODON	5	37	85		66.4	72.0	7376	2062	9438
253	MS 962041	4	35	83		64.8	71.7	7170	2177	9347

Continued.

Table 4. Continued.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Lodging (%)	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
231	JACKSON	4	38	85		68.2	72.6	6978	2325	9303
224	BNGL/CM101	5	39	91		51.3	69.6	6561	2736	9297
232	JEFFERSON	4	34	79		68.3	72.0	6753	2529	9282
223	KOKAHUROSE/BNGL	4	33	80		65.2	72.2	6197	3020	9217
230	CYPRESS	4	34	88		68.4	73.1	6753	2437	9190
239	DIXIEBELLE	5	33	84		68.0	72.7	5729	3312	9041
245	LAFITTE	4	35	78		71.8	74.1	7077	1889	8966
254	TX 5072	5	33	85		68.2	71.7	6111	2749	8860
247	JACINTO (TX3029)	5	35	84		64.8	69.5	6319	2421	8740
246	DELLA	4	53	87		51.4	71.4	6389	2129	8518
227	DLMT 88462.../4/DMSI	4	40	84		64.7	71.2	6201	1994	8195
226	DMSI//LMNT/NWBT/3/...(9502171)	4	43	73	10	62.9	71.6	5432	2152	7584
235	MAYBELLE	5	36	78		67.2	72.2	6202	1359	7561
248	CADET (TX3006)	4	33	74		68.0	71.7	5854	1620	7474
C.V %		13.4	4.0	2.5		8.5	1.7	9.1	12.6	7.7
LSD (0.05)		0.9	2	4		11.2	2.3	1083	556	1253

* Subjective rating 1 to 9, where 1 = excellent, 9 = poor.

Table 5. Agronomic performance of 1999 Commercial Advanced Test, Morehouse Parish, LA.

Entry	Pedigree	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
218	BNGL//MERC/RICO	40	73	9561
260	RUSH 2928	47	72	9543
234	LAGRUE	43	74	9120
220	PY 678	41	71	9019
222	BNGL/RICO	41	73	9003
216	CPRS/LGRU	43	73	8934
236	WELLS	40	73	8777
219	SP 361	39	68	8510
208	LMNT/20001-5/3/LMNT/L202	40	72	8438
217	EARL	43	73	8429
228	COCODRIE	39	72	8422
240	KAYBONNET	43	76	8317
244	BENGAL	39	73	8311
245	LAFITTE	39	71	8242
250	9601099	40	67	8200
258	98LL0601	34	75	8146
243	PRISCILLA	40	74	8114

Continued.

Table 5. Continued.

Entry	Pedigree	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
210	JKSN/CPRS	38	78	8103
257	98LL0401	35	74	8055
249	9601096	40	67	8042
251	9801148	37	74	8024
259	98LL1301	34	74	7994
205	LBLEx2-2//BJ-1*F1//...	38	73	7938
203	KBNT/JODN	35	74	7927
256	98LL0201	35	75	7913
212	KBNT//CPRS/MBLE	36	75	7911
207	AR 1142/JODN	37	74	7909
206	CPRS/KBNT	35	74	7853
233	JODON	40	72	7850
231	JACKSON	41	73	7840
213	JKSN//902207X2*2	35	78	7816
221	PY 678	41	69	7806
211	JODN//CPRS/MBLE	38	73	7783
201	AR 1142/LA 2031	32	78	7686
214	KATY/STBN//MBLE	38	75	7673
204	CPRS/KBNT	36	79	7663
255	98LL0001	34	74	7639
230	CYPRESS	40	78	7584
229	DREW	48	76	7578
239	DIXIEBELLE	40	72	7352
202	902207x2//NWBT/KATY	38	79	7234
238	DELLROSE	38	73	7156
252	9801041	36	78	7108
242	TORO-2	41	75	7086
209	KBNT/JODN	40	74	7055
232	JEFFERSON	36	66	7020
241	LEMONT	37	78	6941
237	MADISON	37	79	6830
224	BNGL/CM101	41	76	6820
225	JSMN/DLLA	43	76	6515
246	DELLA	52	78	6399
247	JACINTO (TX3029)	40	72	6373
227	DLMT 88462.../4/DMSI	42	75	6186
235	MAYBELLE	41	66	6181
253	MS 962041	40	71	6103
215	EMBRAPA 200//CPRS	39	75	5963
254	TX 5072	35	78	5937
223	KOKAHUROSE/BNGL	36	81	5479
248	CADET (TX3006)	37	62	4803
226	DMSI//LMNT/NWBT/3/...(9502171)	47	69	3911
C.V %		5.6	1.4	6.9
LSD (0.05)		4	2	855

Table 6. Agronomic performance of 1999 Commercial Advanced Test, Rapides Parish, LA.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
216	CPRS/LGRU	4	40	79	9357
220	PY 678	6	43	77	9134
217	EARL	4	43	78	8975
244	BENGAL	4	40	79	8754
234	LAGRUE	5	44	82	8599
219	SP 361	6	41	76	8557
260	RUSH 2928	6	49	81	8536
218	BNGL//MERC/RICO	5	41	79	8443
222	BNGL/RICO	5	39	79	8202
233	JODON	6	40	78	8184
251	9801148	6	38	79	8129
208	LMNT/20001-5/3/LMNT/L202	5	38	78	8057
209	KBNT/JODN	5	39	79	8045
207	AR 1142/JODN	6	36	80	8026
210	JKSN/CPRS	5	38	82	7994
236	WELLS	4	40	81	7951
205	LBLEx2-2//BJ-1*F1//...	5	36	77	7862
228	COCODRIE	5	40	79	7849
259	98LL1301	5	35	79	7691
221	PY 678	5	40	76	7626
203	KBNT/JODN	5	36	80	7607
249	9601096	6	37	77	7548
245	LAFITTE	5	40	78	7543
211	JODN//CPRS/MBLE	4	37	78	7517
250	9601099	5	40	77	7499
231	JACKSON	4	41	79	7378
255	98LL0001	4	36	80	7336
213	JKSN//902207X2*2	5	36	82	7300
240	KAYBONNET	5	43	82	7275
229	DREW	5	46	83	7272
241	LEMONT	5	36	84	7240
258	98LL0601	4	35	78	7158
256	98LL0201	4	36	79	7151
230	CYPRESS	5	39	83	7096
201	AR 1142/LA 2031	5	33	80	7093
235	MAYBELLE	6	41	73	7071
253	MS 962041	5	39	75	7042
214	KATY/STBN//MBLE	5	39	80	6975
257	98LL0401	4	35	79	6931
225	JSMN/DLLA	6	45	85	6886
223	KOKAHUROSE/BNGL	6	38	82	6882
252	9801041	5	35	84	6860
243	PRISCILLA	5	39	80	6684
202	902207x2//NWBT/KATY	4	38	82	6668
206	CPRS/KBNT	5	35	81	6667

Continued.

Table 6. Continued.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
242	TORO-2	5	41	81	6452
232	JEFFERSON	6	37	75	6439
247	JACINTO (TX3029)	5	39	78	6374
224	BNGL/CM101	6	43	81	6346
212	KBNT//CPRS/MBLE	5	32	82	6268
239	DIXIEBELLE	7	35	79	6253
204	CPRS/KBNT	5	35	83	6224
238	DELLROSE	5	38	79	6151
227	DLMT 88462.../4/DMSI	6	43	81	6000
246	DELLA	5	52	81	5939
215	EMBRAPA 200//CPRS	5	40	80	5898
254	TX 5072	7	35	83	5420
248	CADET (TX3006)	5	38	69	5395
237	MADISON	5	34	83	5217
226	DMSI//LMNT/NWBT/3/...(9502171)	6	48	70	4508
C.V. %		8.8	4.2	1.3	7.1
LSD (0.05)		0.7	3	2	832

* Subjective rating 1 to 9, where 1 = excellent, 9 = poor.

Table 7. Agronomic and milling performance of 1999 Commercial Advanced Test, Vermilion Parish, Gueydan, LA.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Lodging (%)	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
260	RUSH 2928	5	41	81		51.1	66.8	8679	4766	13445
222	BNGL/RICO	4	39	83		57.8	71.2	8931	3731	12662
218	BNGL//MERC/RICO	4	42	84		67.7	72.3	8817	3771	12588
208	LMNT/20001-5/3/LMNT/L202	4	36	81		59.1	68.2	8294	4071	12365
207	AR 1142/JODN	4	36	82		67.1	72.6	8269	4000	12269
234	LAGRUE	4	44	81		62.8	70.1	8337	3845	12182
214	KATY/STBN//MBLE	4	36	83		66.2	71.9	7643	4479	12122
221	PY 678	4	41	81		64.9	70.8	8358	3692	12050
209	KBNT/JODN	3	37	81		63.4	69.7	7869	4089	11958
216	CPRS/LGRU	4	43	82	7	65.4	72.2	9663	2262	11925
206	CPRS/KBNT	4	33	81		64.2	70.5	7237	4603	11840
253	MS 962041	4	38	79	7	64.8	70.4	7048	4722	11770
233	JODON	4	39	82		66.1	71.5	7496	4217	11713
243	PRISCILLA	4	37	80		64.8	72.0	7488	4179	11667
* 244	BENGAL	4	38	84		64.9	71.8	8318	3297	11615
211	JODN//CPRS/MBLE	3	37	79		66.2	71.5	7569	4043	11612
213	JKSN//902207X2*2	4	35	84		67.0	72.6	7118	4429	11547

Continued.

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Table 7. Continued.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Lodging (%)	Milling Whole	Milling Total	Yield (lb/A, 12%)	Ratoon Yield (lb/A, 12%)	Total Yield (lb/A, 12%)
231	JACKSON	3	43	79		65.4	71.8	7827	3705	11532
228	COCODRIE	3	37	79		64.6	70.0	7343	4156	11499
250	9601099	5	40	76	37	66.3	73.2	7529	3922	11451
212	KBNT//CPRS/MBLE	3	32	83		63.5	71.1	7551	3869	11420
251	9801148	4	36	84		64.6	69.0	7787	3551	11338
229	DREW	3	45	84		66.5	70.7	7723	3602	11325
240	KAYBONNET	4	43	82		65.4	71.0	7536	3706	11242
249	9601096	5	39	73	20	66.7	73.7	7080	3991	11071
210	JKSN/CPRS	4	37	87		63.8	69.8	7434	3630	11064
232	JEFFERSON	4	37	76		64.4	71.0	6972	4087	11059
256	98LL0201	4	36	84		64.7	69.3	7708	3346	11054
236	WELLS	3	39	80		66.0	72.2	7748	3304	11052
230	CYPRESS	4	36	85		65.7	71.1	7168	3872	11040
217	EARL	4	44	81	10	66.1	70.8	9257	1750	11007
224	BNGL/CM101	6	41	86		60.5	67.5	7254	3595	10849
235	MAYBELLE	4	42	73		45.1	71.1	6688	4122	10810
259	98LL1301	4	34	85		50.0	70.6	7676	3109	10785
252	9801041	4	34	85		64.3	70.0	7319	3420	10739
220	PY 678	4	42	83		52.9	70.4	9304	1418	10722
219	SP 361	4	41	76		63.0	70.5	8714	1941	10655
258	98LL0601	4	35	84		66.7	71.1	7580	3044	10624
215	EMBRAPA 200//CPRS	4	36	82		66.5	72.4	6985	3565	10550
238	DELLROSE	4	38	81		68.3	72.5	6391	4154	10545
223	KOKAHUROSE/BNGL	5	39	85		42.5	69.2	6523	3886	10409
255	98LL0001	4	36	85		60.3	69.7	7472	2936	10408
205	LBLEx2-2//BJ-1*F1//...	3	36	78		64.7	71.1	7187	3207	10394
247	JACINTO (TX3029)	4	37	80		66.5	70.4	5883	4498	10381
225	JSMN/DLLA	4	44	89		21.4	56.8	5492	4837	10329
204	CPRS/KBNT	4	33	85		63.6	70.6	6831	3446	10277
239	DIXIEBELLE	4	34	81		60.5	67.2	6555	3596	10151
245	LAFITTE	4	39	78		70.7	73.3	7283	2836	10119
242	TORO-2	5	42	83		66.7	72.4	7423	2612	10035
202	902207x2//NWBT/KATY	4	35	84		58.4	67.0	6798	3234	10032
257	98LL0401	4	36	85		65.7	70.0	6787	3201	9988
201	AR 1142/LA 2031	4	32	83		64.9	70.7	6988	2958	9946
203	KBNT/JODN	3	35	80		64.6	71.1	7215	2728	9943
248	CADET (TX3006)	4	36	70		63.0	67.6	5989	3869	9858
226	DMSI//LMNT/NWBT/3/...	4	45	75	27	55.6	70.1	5934	3902	9836
237	MADISON	4	33	85		65.7	71.8	6645	2770	9415
241	LEMONT	4	35	84		63.7	70.5	6377	2160	8537
254	TX 5072	5	38	86		61.9	65.7	5738	2698	8436
227	DLMT 88462.../4/DMSI	4	41	84		59.6	69.2	6284	1367	7651
246	DELLA	4	55	85	67	56.3	65.2	5560	1168	6728
C.V.%		11.1	3.5	1.9		9.7	2.6	7.5	15.9	7.1
LSD (0.05)		0.7	2	3		12.1	3.7	897	900	1252

* Subjective rating 1 to 9, where 1 = excellent, 9 = poor.

Table 8. Agronomic performance of 1999 Commercial Advanced Test, Vermilion Parish, Pine Island, LA.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
207	AR 1142/JODN	6	36	78	4401
249	9601096	5	36	69	4288
209	KBNT/JODN	6	39	79	4211
228	COCODRIE	5	37	74	4091
252	9801041	5	34	82	3996
255	98LL0001	4	35	77	3988
214	KATY/STBN//MBLE	5	36	77	3926
221	PY 678	6	39	72	3905
251	9801148	6	36	79	3901
220	PY 678	4	38	75	3901
203	KBNT/JODN	5	36	76	3865
201	AR 1142/LA 2031	5	32	80	3814
239	DIXIEBELLE	7	33	79	3807
205	LBLEx2-2//BJ-1*F1//...	5	37	75	3768
257	98LL0401	6	34	78	3738
232	JEFFERSON	7	36	72	3737
259	98LL1301	6	36	79	3696
222	BNGL/RICO	7	38	81	3695
233	JODON	6	37	73	3681
260	RUSH 2928	5	41	76	3678
208	LMNT/20001-5/3/LMNT/L202	7	38	79	3572
258	98LL0601	6	35	79	3552
256	98LL0201	5	35	79	3495
• 244	BENGAL	6	35	78	3408
216	CPRS/LGRU	6	40	78	3373
218	BNGL//MERC/RICO	5	38	78	3371
250	9601099	6	38	69	3285
• 217	EARL	5	40	75	3239
245	LAFITTE	4	37	73	3218
236	WELLS	4	39	81	3193
215	EMBRAPA 200//CPRS	5	37	78	3191
234	LAGRUE	7	42	81	3184
230	CYPRESS	5	36	81	3150
238	DELLROSE	5	36	76	3133
210	JKSN/CPRS	6	37	80	3098
213	JKSN//902207X2*2	5	33	81	3076
224	BNGL/CM101	6	40	83	3051
242	TORO-2	5	39	79	3002
211	JODN//CPRS/MBLE	6	36	77	2988
204	CPRS/KBNT	6	34	82	2932
241	LEMONT	5	31	83	2840
212	KBNT//CPRS/MBLE	5	30	81	2828
243	PRISCILLA	6	39	76	2753
240	KAYBONNET	5	40	82	2701
219	SP 361	5	35	69	2651

Continued.

Table 8. Continued.

Entry	Pedigree	Seedling Vigor*	Plant Height (in)	Days to 50% Heading	Yield (lb/A, 12%)
237	MADISON	5	30	83	2582
231	JACKSON	5	38	76	2527
223	KOKAHUROSE/BNGL	6	37	82	2520
248	CADET (TX3006)	7	34	61	2363
227	DLMT 88462.../4/DMSI	5	41	80	2331
206	CPRS/KBNT	6	35	80	2303
229	DREW	6	41	82	2256
254	TX 5072	6	31	82	2243
247	JACINTO (TX3029)	6	38	75	2232
202	902207x2//NWBT/KATY	5	33	81	2128
235	MAYBELLE	7	37	66	2099
225	JSMN/DLLA	6	41	83	1830
226	DMSI//LMNT/NWBT/3/...(9502171)	6	42	69	1585
253	MS 962041	5	35	70	1542
246	DELLA	6	48	80	1451
C.V %		16.6	4.7	2.5	19.6
LSD (0.05)		1	3	3	1001

* Subjective rating 1 to 9, where 1 = excellent, 9 = poor.

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1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER	LA 9602074	EARL

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	5. TELEPHONE *(include area code)*	6. FAX *(include area code)*
LOUISIANA STATE UNIV. AGRI. CENTER RICE RESEARCH STATION ~~P. O. BOX 1429~~ ~~CROWLEY, LA 70527-1429~~ RAD 11/5/04	337/788-7531	337/788-7553
	7. PVPO NUMBER 200100046	

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

1373 Caffey Road
Rayne, LA 70578

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

10. Is the applicant the original owner? [XX] YES [ ] NO *If no, please answer one of the following:*

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

[ ] YES [ ] NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

[ ] YES [ ] NO If no, give name of country

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Owned by the Agricultural Experiment Station of the Louisiana State University Agricultural Center.

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 owner, both the original owner and the applicant must meet one of the above criteria.

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

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