

U.S. Department of Agriculture Work Unit Description AD-416 U.S. Dept. of Agriculture, State Agricultural Experiment Stations and Other Institutions				Date (Month/Day/Year)
1. Accession No.		Agency Identifiers		5. Work Unit/Project No.
		2. NIFA	3. L.A.B	LAB94122
7. Title Genetic Improvement of Rice for Louisiana Production				6. Status A = New Project
8. Performing Organization 8190 - 2010 Rice Research Station Agricultural Experiment Sta, Louisiana State Univ			9. Cooperating Departments within State Performing Institution	
10. Multistate Project No.			11. Cooperating States <small>Sent via BITNET/INTERNET electronic mail systems</small>	
12. Investigator Name(s) Last Name and Initials 1. Linscombe, S.D.				Date: <u>11/7/11</u>
13. Project Contact Last Name and Initials: Linscombe, S. D.			Phone: 337-788-7531 Fax: 377-788-7553	
E-Mail: slinscombe@agcenter.lsu.edu URL:				
14. Project Type Hatch		15. Contract/Grant/Agreement No.		16. Amount
				17. FY
18. Award Date (Month/Day/Year)		19. Start Date (Month/Day/Year)		20. Termination Date (Month/Day/Year)
		01/01/2012		12/31/2016
Goals/Objectives/Expected Outputs To develop superior conventional and Clearfield varieties for Louisiana and Gulf South production with emphasis on improvements in yield, quality (milling yield, cooking quality, and processing adaptability), disease resistance, seedling vigor, earliness, ratoon potential, lodging resistance, environmental stability, and herbicide and insect tolerance. To develop non-conventional rice varieties incorporating traits such as herbicide resistance, insect resistance, disease resistance, quality characteristics, and other important traits through mutation breeding. To conduct research on agronomy, production, and management of rice as relates to increased economic return from new varieties and breeding lines. To produce additional generations of advancement and selection of rice breeding lines per year and increase seed of promising selections to facilitate the release of new varieties by the use of the Puerto Rico winter nursery.				
Methods Develop new genetic populations in all commercial classes of rice by artificial hybridization and mutagenesis. Advance these populations while selecting for desirable characteristics. Evaluate advanced selections in replicated tests over years and locations to identify superior lines. Increase superior lines through the Rice Research Station Foundation Seed Program. Conduct concurrent studies related to varietal improvement.				
23. Non-Technical Summary The development of new, superior rice varieties can have positive effects on the economic viability of the Louisiana rice industry. This project develops new improved rice varieties for Louisiana and the Gulf South region.				
24. Keywords rice; Oryza sativa; rice breeding; varietal improvement; genetics; mutation breeding; ohst plant resistance; herbicide tolerance				
**** The Original signed document is on file at this institution. ****				
Signature		Title		Date
Dept: <i>David N. Morrison</i> Admin:		Associate Director		11/3/11



U.S. Department of Agriculture AD-417 Research Work Unit/Project Description - Classification of Research U.S. Dept. of Agriculture, State Agricultural Experiment Stations and Other Institutions			Date (Month, Day, Year) 11/03/2011	
1. Accession No.	Agency Identifiers 2. NIFA 3. LA.B	5. Work Unit/Project No. LAB94122	6. Status A New	
7. Title Genetic Improvement of Rice for Louisiana Production				
25. Basic Research	26. Applied Research 100 %	27. Development Effort	28. Forestry	29. Animal Health
Classification by Knowledge Area, Subject of Investigation, and Field of Science				
	Knowledge Area Code (1)	Subject of Investigation Code (2)	Field of Science Code (3)	Percent effort % (4)
30.	204 Plant Product Quality and Utility (Preharvest)	1530 Rice	1080 Genetics (includes breeding)	40
31.	211 Insects, Mites, and Other Arthropods Affecting Plants	1530 Rice	1080 Genetics (includes breeding)	20
32.	212 Pathogens and Nematodes Affecting Plants	1530 Rice	1080 Genetics (includes breeding)	20
33.	213 Weeds Affecting Plants	1530 Rice	1080 Genetics (includes breeding)	20
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