

ANNUAL REPORT
COMPREHENSIVE RESEARCH ON RICE
January 1, 2004 – December 31, 2004

PROJECT TITLE: Operation and Maintenance of the Rice Research Facility at Davis

PROJECT LEADER: Thomas H. Tai, Research Geneticist, USDA-ARS
Agronomy & Range Science, UCD

PRINCIPAL UC INVESTIGATORS:

Thomas H. Tai, Research Geneticist, USDA-ARS, Agronomy & Range Science, UCD
Virgilio C. Andaya, Research Affiliate, USDA-ARS
Darryl Aragonese, Postgraduate Researcher, Agronomy & Range Science, UCD
Peter M. Colowit, Biological Science Technician, USDA-ARS
Dave Gall, Interim Principal Superintendent of Agriculture, Agronomy & Range Science, UCD

COOPERATORS:

Farman Jodari, Plant Breeder, Rice Experiment Station, Biggs
Carl W. Johnson, Plant Breeder, Rice Experiment Station, Biggs
Kent S. McKenzie, Director and Plant Breeder, Rice Experiment Station, Biggs
Venkatesan Sundaresan, Professor, Agronomy and Range Science/Dept. Plant Biology, UCD
James E. Hill, Professor, Agronomy and Range Science, UCD

LEVEL OF 2004 FUNDING: \$26,000

OBJECTIVES AND EXPERIMENTS CONDUCTED BY LOCATION TO ACCOMPLISH OBJECTIVES:

The objective of this project is to provide a field facility near the Davis campus for rice research by University, USDA, and Rice Experiment Station personnel. The project pays for direct costs of operating the facility including rental of tractors and farm implements for tillage operations and part-time technical assistance. Water charges, fertilizers, herbicides, other farm supplies, and general assistance are also paid from this project.

Experiments conducted by various project leaders in 2004 were as follows:

Rice breeding (~ 5 Acres):	F. Jodari, C.W. Johnson, K.S. McKenzie
Rice genetics (~ 2 Acres):	T. Tai
UCD (~ 0.5 Acre, < 0.1 Acre):	V. Sundaresan, J. Hill (non-RRB projects)

SUMMARY OF 2004 RESEARCH (MAJOR ACCOMPLISHMENTS) BY OBJECTIVES:

Details presented under the various projects. Materials grown by Dr. Sundaresan and Dr. Hill were for non-Rice Research Board funded projects. Dr. Sundaresan's materials were transgenic and grown according to USDA-APHIS regulations.

In 2004, the UCD rice field facility was impacted by the California National Primate Research Center Drainage Mitigation Project. A large detention basin was excavated from a field area (northeast corner adjacent to Russell Blvd. and Pedrick Rd.) and the excavated soil was placed on a field area on the northwest corner (adjacent to Russell Blvd. and the western boundary of the fields). Neither area has been in use for decades due to drainage issues. The overall area available to rice researchers was not impacted. Some road improvements were made; however, the large earth moving equipment apparently damaged some of the irrigation system resulting in some water losses and control issues, which did increase weed problems. Geese were not a problem this year.

PUBLICATIONS OR REPORTS:

Reported under the research projects.

CONCISE GENERAL SUMMARY OF CURRENT YEAR'S RESULTS:

Reported under the research projects.