

Rice Crop Germplasm Committee

The 23st meeting of the Rice Crop Germplasm Committee was held at 9:00 am on November 18, 2003 in the auditorium of the Rice Research and Extension Center, Stuttgart, AR. Members present were Karen Moldenhauer (Chair), James Correll, James Gibbons, Barry Tillman, Georgia Eizenga, Rick Cartwright and Robert Fjellstrom,. Ex-officio members present were, Allan Stoner and Neil Rutger. Other interested parties were, Chris Deren, Dwight Kanter, Federico Cuevas, Yulin Jia, Rolf Bryant, Charles Wilson, Jr., Lorie Bernhardt, Fleet Lee, Robert Miller and Wen Gui Yan. A summary of the meeting follows:

Minutes of the 22^{ed} meeting of the Rice Crop Germplasm Committee held on February 24, 2002 were approved as amended. Reports were then submitted by the following.

1. Curator's report. Dr. Harold Bockelman, curator at the National Small Grains Collection in Aberdeen, ID, sent a report on the collection, including total number of accessions, accessions assigned PI numbers during the past year, and a list of the numbers of accessions evaluated for the rice descriptor data in GRIN.
2. Dr. Allan Stoner, Research Leader/CGC Coordinator USDA, ARS presented background information on what was transpiring in Washington DC regarding the rice quarantine situation. In the past it has been a joint relationship between APHIS and the USDA, APHIS was responsible for writing and enforcing the quarantine regulations and ARS provided the people to do the testing and APHIS would sign off on the results. When Dr. Sarbagh Salih, leaves at the end of her 5 year period, at the end of December 2003, (limit allowed to a non-US citizen) with USDA, ARS, her position may not be filled because it is yet to be decided who will be responsible for further testing in rice at that point, APHIS or ARS.
3. Presentation of Dr. Sarbagh Salih, USDA-ARS Plant Germplasm Quarantine Office (PGQO, Beltsville). Dr. Salih sent her final report. She will be finished at the end of December 2003. reported that in 2001, 52 of the 79 processed accessions were released from quarantine and in 2002, 461 of the 500 processed accessions were released. Lists were handed out of these accessions. These lines were grown in North Carolina at the Tide Water Research Station. In 2003, 532 accessions were processed resulting in 517 plantlets that were shipped to North Carolina, an accession list was attached. 74 of the 517 plantlets died and were replanted at NCSU but not transplanted to the field. Sarbagh had not received any results at the time of her report on the status of these lines. Dr. Marshall is the current contact person at the North Carolina for the nursery.
4. Dr. David Marshall, USDA-ARS Research Leader, Plant Science Research Unit North Carolina State University, sent a report concerning the quarantine grow out in North Carolina. He was sad to report that the NC plots were lost to Hurricane Isabel when Plymouth, NC took a direct hit from the hurricane. He sent a photo. He will give a report at the next CGC meeting to be held at RTWG.
5. Neil Rutger, USDA-ARS, SPA Dale Bumpers National Rice Research Center, Stuttgart, reported that he had reviewed the list of lines, that had been distributed to the committee, that Dr. Salih had waiting to go through quarantine. He had pulled the duplicate accessions that were already in the world collection from the grow out this year. Neil also said that there were 2556 accessions in the Q. Of these 422 were from Bangladesh with no information. There were also 318 from Japan that we already have. 1860 were from Indonesia with no donor information on 1760 of them. The accessions from Indonesia and Bangladesh have been stored since 1993 and probably

are photoperiod sensitive. A motion was made by Rick Cartwright and seconded by Bob Fjellstrom to encourage Dr. Rutger to continue to sort through the lines in the Q for quarantine and remove the duplicates. Motion carried. A motion was then made by Rick Cartwright that we throw away the material from Indonesia, if we can not find the records for the 1760 lines, since we do not know what they are, and to grow out the 100 that we know. Motion tabled until the next meeting.

6. Neil Rutger, Director of the USDA-ARS Dale Bumpers National Rice Research Center, Stuttgart, AR, gave a status report on the Genetic Stocks Oryza Collection (GSOR) to be housed at the DBNRRC. Lori Bernhardt is the computer assistant in charge of the web site and data . He explained that the center would be maintaining materials, which require special handling. The center will accept, store, and distribute these as long as the seed stock is available, it will not regenerate these seed stocks. They will solicit seed stocks, no MTA's will be allowed on the material, there will be public access, and they will not be kept in perpetuity. There will be an advisory group to oversee this collection composed of the CGC and Scientists from NSF supported projects. Contributors must include a statement that the seed is disease and weed free when lines are put in the collection.
7. Neil also mentioned the Applied Plant Genomics Coordinated Agricultural Project (CAP) that is focused on US rice improvement. He plans to get a group organized.
8. Wen Gui Yan presented information on establishing a core subset for comprehensive evaluation of US rice germplasm. He, Anna McClung and Harold Bockelman have proposed the following: Wen Gui built a rice core subset using stratified random sampling. It includes samples that have come from all of the countries represented in the collection. This subset was picked using a logarithmic index of accessions which were randomly sampled. With the following exceptions, at least one accession was selected from each of the countries, and no duplicates were selected. This core set has 1,687 accessions pulled from the 17,359 in the collection. This core is estimated to cover about 70% of the variability in the collection. So far it has been evaluated for agronomic characteristics and has been shown to sample the variability present in the total collection. More evaluations are still required on grain quality, morphology, pest resistance, and physiological parameters. A motion was made by James Gibbons and seconded by Barry Tillman in support of this work to establish and further characterize the core rice collection. Motion carried.
9. Frederico Cuevas presented information on RiceTec's proposed changes in the rice quarantine process. They are proposing the importation of rice seed for propagation from Argentina into the Southern U.S. Frederico handed out copies of the pest risk analysis for the group and presented their comments. RiceTec will be submitting this to APHIS this fall. He also told us that Dr.M. Levy was studying the blast races to assess the risk of introduction of a new race.

The meeting was adjourned at 3:00 pm.

Submitted by:

Karen Moldenhauer
Chair

Appendix I. CGC members for 2004 with year term ends in parentheses.

<p>Dr. Karen Moldenhauer, Chair (2004) Rice Research and Extension Center University Of Arkansas 2900 Hwy 130 E Stuttgart, AR 72160 kmolden@uark.edu rrec_kmolden@futura.net</p>	<p>Dr. Thomas Tai (2008) USDA-ARS CPGRU 155 Hunt Hall University of California Davis, CA95616 thtai@ucdavis.edu</p>
<p>Dr. Rick Cartwright (2004) Cooperative Extension Service University of Arkansas PO Box 391, 2301 S. University Avenue Little Rock, AR 72203 rcartwright@uaex.edu</p>	<p>Dr. Jim Oard (2004) Louisiana State University M.B. Sturgis Hall Department Of Agronomy Baton Rouge, LA 70803 joard@agctr.lsu.edu</p>
<p>Dr. Barry Tillman (2006) RiceTec, Inc. PO Box 1305 Alvin, TX 77512 btill@Ricetec.com</p>	<p>Dr. David Kohlwey (2004) 1861 Lehner Road Columbus, Ohio 43224-2232 riceguy1@juno.com</p>
<p>Dr. James Correll (2006) Plant Pathology Dept. University of Arkansas Fayetteville, AR 72701 jcorrell@comp.uark.edu</p>	<p>Dr. James Gibbons (2006) Rice Research and Extension Center University Of Arkansas 2900 Hwy 130 E Stuttgart, AR 72160 jgibbon@uark.edu</p>
<p>Dr. Georgia Eizenga (2006) Dale Bumpers National Rice Research Center PO Box 1090; 2890 Hwy 130 E Stuttgart, AR 72160 geizenga@spa.ars.usda.gov</p>	<p>Dr. Robert Fjellstrom (2008) USDA-ARS 1509 Aggie Drive Beaumont, TX 77713 r_fjellstrom@tamu.edu</p>
<p>Dr. Harold Bockelman, Ex-officio Ex-Officio USDA, ARS, PWA, NSGC PO Box 307 Aberdeen, ID 83210 nsgchb@sun.ars-grin.gov</p>	<p>Sarbagh Salih, Ex-Officio USDA, ARS, PSI, FL, Plant Germplasm Quarantine Office Building 580, BARC-W Beltsville, MD 20705 pgqoss@ars-grin.gov</p>
<p>Dr. Allan K. Stoner, Ex-officio Research Leader/CGC Coordinator USDA, ARS, BA, NGRl Bldg. 001, Room 127 BARC-WEST Beltsville, MD 20705 ngrlas@sun.ars-grin.gov</p>	<p>Dr. J. Neil Rutger, Ex-officio USDA, ARS, SPA Dale Bumpers National Rice Research Center PO Box 1090 Stuttgart, AR 72160 jnrtger@spa.ars.usda.gov</p>

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