Korea International Course on Genebank Management 7-18 September 2009

Working group session of lecture 1 - Problem scenario for rice

Your job is to prepare newly received samples for accession into the genebank collection. The collection is already large and diverse, and part of your job is to ensure that you only accept samples that do not duplicate accessions already in the collection. Your boss hands over to you today a packet of seeds in a sealed paper envelope labeled “PI 223554, Azucena, October 2002”, just received from a genebank in France. He asks you to prepare a plan for processing the seeds.

Please prepare a plan, describing the steps you need to go through to assess and process this sample, specifying the decisions you advise and the methods needed in each step.

Guidelines:

- Simply list the steps
- For each step describe what decision you need to take and explain why
- For each step describe very briefly the methods you would use.

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Your job is to regenerate accessions of rice as needed. You have the capacity to regenerate 500 accessions per season as a routine activity. Each season your planning starts when you extract a report from your genebank management database manager on the status of accessions in the active collection. This season the report shows

- 12 accessions have viability less than 25% in the active collection, over 90% in the base collection
- 232 accessions have viability 25% to 85% in the active collection and have never been regenerated since their first acquisition
- 178 accessions have viability 25% to 85% in the active collection and are the progeny of three successive generations of seed increase
- 412 accessions have >85% viability but less than 50g left in the active collection.

Prepare a plan for this season's regeneration, from deciding what you will regenerate up to and including the harvest, describing the steps you need to go through, stating what decisions you will need to make and what will be the basis of your decisions.

Guidelines:

- Simply list the steps
- For each step describe what decision you need to take and explain why
- For each step describe very briefly the methods you would use.