

Table 4. Relating genebank performance to costs

| Goal | Specific Objective ¹ | Activity ² | Performance Indicators ³ | Cost Components |
|---|--|---|---|---|
| Conservation | Coverage of Genepool | - Acquisition | - Average acquisition costs - Number of collected accession per acquisition | - CC: seed health testing facility, greenhouse, lab/office equipment - QFC: scientific and technical staff - VC: labor for seed health testing, introductory planting, seed handling |
| | | - Security duplication / | - Number of accessions safely duplicated | - CC: - QFC: - VC: labor for packing and shipping |
| | Ensuring security | - Long term storage (collection) | - Seed longevity - Number of accession stored over time | - CC: storage facility, storage equipment, back up power system, storage container - QFC: scientific and technical staff - VC: labor for storage |
| | | - Germination testing and seed health testing | - Germination levels and deviation - Seed quality | - CC: germination testing facility, germination chamber, etc - QFC: scientific and technical staff - VC: labor for germination testing |
| | Maintaining genetic integrity | - Regeneration | - Number of accessions lost - Genetic erosion | - CC: screenhouse, storage, vernalizer, seed-cleaning equipment, seed-drying equipment, seed-processing facility, seed processing equipment, etc - QFC: scientific and technical staff - VC: labor for regeneration |
| | | Ensuring availability | - Medium term storage (active collection) | - Seed longevity - Seed quality |
| - Germination testing and seed health testing | - Germination levels and deviation - Seed quality | | - CC: germination testing facility, germination chamber, etc - QFC: scientific and technical staff - VC: labor for germination testing | |
| - Regeneration | - Number of accessions lost (depending on the crop and conservation method) - Genetic drift indicator | | - CC: screenhouse, storage, vernalizer, seed-cleaning equipment, seed-drying equipment, seed-processing facility, seed processing equipment, etc - QFC: scientific and technical staff - VC: labor for regeneration | |
| Use | Distribution of material | - Distribution (Shipment) | - Number of accessions distributed per year | - CC: seed health testing facility, greenhouse, lab/office equipment, Jacuzzi equipment, etc - QFC: scientific and technical staff - VC: labor for seed health testing duplication, packing and shipping |
| | Providing information | - Data / Information management | - User appraisal - Number of visitors to website | - CC: general facilities - QFC: scientific and technical staff - VC: labor for database management, catalogue management, etc. |

¹ According to Common Analysis framework of the GPG2 activities

² Following Koo et al. (2004) classification/grouping of activities

³ Examples from the performance indicators of the CGN in Netherlands