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COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Item 3.1 of the Provisional Agenda

INTERGOVERNMENTAL TECHNICAL WORKING GROUP ON PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Sixth Session

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REPORTING FORMAT FOR MONITORING THE IMPLEMENTATION OF THE SECOND GLOBAL PLAN OF ACTION FOR PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE

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I. INTRODUCTION

1. This document provides the draft *Reporting Format for Monitoring the Implementation of the Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture* (Reporting Format), mentioned in paragraphs 3, 8, 9, 11, 17, 19 and 20 a) of document CGRFA/WG-PGR-6/12/2.
2. The draft Reporting Format has been prepared on the basis of the indicators proposed in *Appendix I and II* to the document, *Targets and indicators for plant genetic resources for food and agriculture*.¹ It captures the information required to compile the proposed indicators, taking into consideration the availability and accessibility of data. The draft Reporting Format in Annex I to this document lists 50 questions covering the 58 indicators for monitoring the implementation of the 18 Priority Activities of the *Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture* (Second GPA).
3. Following the Commission's request to further advance the monitoring approach and the use of the National Information Sharing Mechanisms (NISMs) in light of the Second GPA², FAO revised the reporting format adopted in 2004 for monitoring the first GPA. FAO took into consideration the experience gained in monitoring the implementation of the GPA and the importance of maintaining continuity in reporting on the GPA implementation through a country-led participatory process. 17 out of the 50 questions of this Reporting Format have been derived from the 2004 reporting format.
4. This document also includes a list of nine common tables referred to throughout the reporting format, which were also used by the reporting format for monitoring the first GPA (Annex II).
5. The draft Reporting Format facilitates computer processing and analysis of the data and the use of individual items of information for multiple purposes. As mentioned in the document, *Targets and indicators for plant genetic resources*³, an upgrade of the information system currently used by NISMs for the monitoring of the GPA is necessary to facilitate data recording, sharing and analysis of the indicators and reporting format for the Second GPA.
6. The reporting format serves the purpose of guiding National Focal Points in the assessment of progress in conservation and use of plant genetic resources for food and agriculture (PGRFA), including in the preparation of their country reports. In addition, the reporting format may be used by the National Focal Points to involve other stakeholders to contribute valuable information to assessments and country reports.

¹ CGRFA/WG-PGR-6/12/2.

² CGRFA-13/11/Report, paragraph 35.

³ CGRFA/WG-PGR-6/12/2 paragraph 19.

ANNEX I

DRAFT REPORTING FORMAT

This Reporting Format is grouped by priority activity of the *Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture* (Second GPA). It contains questions requesting information that is necessary to satisfy the indicators for monitoring the implementation of the Second GPA (see CGRFA/WG-PGR-6/12/2, Appendix I) including the “higher-order” indicators for plant genetic resources for food and agriculture (see CGRFA/WG-PGR-6/12/2, Appendix II). The “higher-order” indicators and related questions are shown in shaded boxes.

Most questions require the information to be recorded in a tabular format. These questions provide a brief description of the table structure (columns).

The number of the questions given in Annex I follow the numbering of the 18 priority activities of the Second GPA. 17 out of the 50 questions of this Reporting Format have been derived from the Reporting format for monitoring the implementation of the *Global Plan of Action for the Conservation and Sustainable Utilization of Plant Genetic Resources for Food and Agriculture* adopted by the Commission on Genetic resources for Food and Agriculture in 2004⁴. Their original numbering is reported in a footnote for each of these questions.

National Focal Point (NFP) should consult with other stakeholders, including non-governmental organizations and the private sector, in considering their replies to questions marked with “[SH]” at the end of the question.

Some of the columns in the tables are links to one of the nine common tables that are referenced by several questions in the Reporting Format. To identify these columns the word ‘link’ plus the name of the common table follows the column description. The common tables are described in Annex II.

All answers to the questions should be referred to the reporting period covered by the monitoring exercise unless otherwise specified.

⁴ CGRFA-10/04/Inf.5 Annex 2.

PRIORITY ACTIVITY 1: Surveying and inventorying plant genetic resources for food and agriculture

INDICATORS

- Number of *in situ* (including on farm) surveys/inventories of PGRFA⁵ carried out
- Number of PGRFA surveyed/inventoried
- Proportion of PGRFA threatened out of those surveyed/inventoried⁶

QUESTION

1.1 Enter in the table below any PGRFA survey and inventory⁷, including references, area(s) covered and its(their) conservation priority ranking, surveying method(s) used, PGRFA surveyed and found threatened, main cause of threat and major findings. [SH]⁸

COLUMN DESCRIPTION

Title of survey/inventory link:protab

Date (YYYY/MM) link:protab

Survey/inventory conducted

• *In situ* mainly • On farm mainly • *In situ* and on farm

Name of area surveyed/inventoried link:aretab

Reference link:reftab

Survey details

- Indigenous knowledge used during the survey
- Identification of threatened or endangered species relevant to PGRFA
- Assessment of threat to genetic diversity in plants relevant to PGRFA
- Data entered into a Geographical Information System (GIS)

Description of surveying method(s)

Crop species surveyed/inventoried⁹ link:taxtab

Crop varieties surveyed/inventoried link:cultab

Crop wild relatives surveyed/inventoried link:taxtab

Wild food plants species surveyed/inventoried link:taxtab

Threatened crop species identified¹⁰ link:taxtab

Threatened crop varieties identified link:cultab

Threatened crop wild relatives identified link:taxtab

Threatened wild food plants species identified link:taxtab

⁵ PGRFA means any genetic material of plant origin of actual or potential value for food and agriculture (definition from the International Treaty on PGRFA, 2001).

⁶ Also listed in Priority Activity 16: Developing and strengthening systems for monitoring and safeguarding genetic diversity and minimizing genetic erosion of plant genetic resources for food and agriculture.

⁷ carried out during the reporting period with the participation of your organization.

⁸ Question 1.1 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

⁹ Crop species can be omitted if crop varieties are reported.

¹⁰ Crop species can be omitted if crop varieties are reported.

Proven causes of threat

Presumed causes of threat

Description of major findings

PRIORITY ACTIVITY 2: Supporting on-farm management and improvement of plant genetic resources for food and agriculture

INDICATOR

- **Number of farming communities involved in on-farm PGRFA management and improvement activities with government support**

QUESTION

2.1 Enter in the table below any programme/project/activity¹¹ addressing on-farm management and improvement of PGRFA , listing local farmer communities and number of farmers involved. [SH]¹²

COLUMN DESCRIPTION

Name of on-farm management programme/project link:protab

Date (YYYY/MM) link:protab

Local farmer community involved link:instab

Number of farmers involved

Activities include:

- Pilot sites established in areas of high diversity
- Pilot sites established in high risk areas
- Assessment of farmers' knowledge
- Characterization and evaluation of local varieties
- Studies on local varieties population structure and dynamics
- On-farm breeding
- Seed multiplication and distribution of bred varieties
- Assessment of local varieties utilization and management
- Assessment of improved varieties utilization and management
- Socio-economic assessment of PGRFA on-farm management and improvement
- Environmental assessment of PGRFA on-farm management and improvement

Other activities

¹¹ carried out during the reporting period with the participation of your organization.

¹² Question 2.1 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR

- **Proportion of cultivated land under farmers' varieties/landraces in areas of high diversity and risk¹³**

QUESTION

2.2 Enter in the table below the areas of high diversity and risk in your country and, for each crop or crop group, indicate the proportion of cultivated land under farmers' varieties/landraces out of the total cultivated land. [NFP]

COLUMN DESCRIPTION

Name of area of high diversity and risk link:aretab

Name of crop/ crop group

Proportion of cultivated land under farmers' varieties/landraces

Year of estimation

Reference link:reftab

INDICATOR

- **Number of farmers' varieties/landraces delivered from national or local gene banks to farmers (either directly or through intermediaries)¹⁴**

QUESTION

2.3 Enter in the table below, for each crop or crop group, the number of farmers' varieties/landraces provided¹⁵ by national or local gene banks to farmers (either directly or through intermediaries) [SH]

COLUMN DESCRIPTION

Name of crop/ crop group

Number of farmers' varieties/landraces delivered to farmers

Number of samples of farmers' varieties/landraces delivered to farmers

¹³ Out of the total cultivated land in the same areas.

¹⁴ Also listed in Priority Activity 10: Promoting diversification of crop production and broadening crop diversity for sustainable agriculture.

¹⁵ During the reporting period.

PRIORITY ACTIVITY 3: Assisting farmers in disaster situations to restore crop systems

INDICATORS

- Number of households that received seeds for planting as an aid after disaster situations
- Proportion of seed produced at the local level¹⁶ out of that made available through disaster response interventions

QUESTION

3.1 Enter in the table below the name of the area affected by disasters, the disaster date and type, the name of the crop and/or variety(ies) reintroduced, reintroduction date, the amount and origin of seed distributed, the seed relief methodology used, the number of beneficiary households, the source of the germplasm and type of assessment made to guide the intervention. [SH]¹⁷

COLUMN DESCRIPTION

Name of disaster area link:aretab

Type of disaster

- Flood • Fire • Typhoon/hurricane • Drought • Civil war • International war • Other (please specify)

Other types of disaster

Date of disaster (YYYY/MM)

Name of crop

Variety(ies) reintroduced link:cultab

Date of reintroduction (YYYY/MM)

Seed aid provided

- Through direct seed distribution
- Indirectly, through a market-based approach (e.g. voucher schemes, seed fairs.)
- Community seed multiplication

Amount of seed distributed/made available

Unit of measure

- Grams • Kilograms • Tons • Units

Percentage of the seed distributed/made available which was locally produced

Number of households that benefitted from seed aid

Source of germplasm/seed

- Community seed bank • National gene bank • Regional gene bank • International gene bank • Farmers • Commercial agencies • Other (please specify)

Other sources of germplasm/seed

Assessments carried out

- To characterize the functioning of seed systems at farmers' level
- To evaluate the impact of a disaster on farmers' seed systems

¹⁶ Produced in neighbouring areas with similar agro-ecological conditions.

¹⁷ Question 3.7 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR

- **Existence of disaster risk management policies for restoring crop systems that include seed security provisions**

QUESTION

3.2 Enter in the table below any disaster risk management policy for restoring crop systems that include seed security provisions and is applied. [NFP]

COLUMN DESCRIPTION

Title of policy link:reftab

Year of publication link:reftab

PRIORITY ACTIVITY 4: Promoting *in situ* conservation and management of crop wild relatives and wild food plants

INDICATOR

- **Proportion of national *in situ* conservation sites with management plans addressing crop wild relatives and wild food plants**

QUESTION

4.1 Indicate the percentage of national *in situ* conservation sites that have management plans addressing crop wild relatives and wild food plants. [NFP]

INDICATOR

- **Number of crop wild relatives and wild food plants *in situ* conservation and management actions with government support**

QUESTION

4.2 Enter in the table below any programme/project/activity¹⁸ on *in situ* conservation and management of crop wild relatives and wild plants for food production, the area covered, taxa identified and the criteria used for their identification. [SH]¹⁹

COLUMN DESCRIPTION

Name of programme/project/activity link:protab

Date (YYYY/MM) link:protab

Implemented with support from:

- Government
- Private sector
- International research centre(s)
- United Nations agency(ies)
- Non Governmental Organization(s)

Name of conservation area link:aretab

Type of area

- Protected
- Restoration

Name of taxon link:taxtab

Taxon group

- Crop Wild Relatives (CWR)
- Wild Plants for Food Production (WPF)

Identification criteria

¹⁸ Carried out during the reporting period with the participation of your organization.

¹⁹ Question 4.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

Additional topics covered

- Implementation of management practices to maintain high level of CWR/WPF genetic diversity
- Involvement of local communities
- Implementation of plans to encourage public participation
- Arrangements for *ex situ* conservation of threatened and endangered CWR/WPF

INDICATOR

- **Number of crop wild relatives and wild food plants species actively²⁰ conserved *in situ***

QUESTION

4.3 Enter in the table below the most recent estimation of the number of crop wild relatives and wild food plants species actively conserved *in situ* in your country, date and any reference to their estimation [NFP]

COLUMN DESCRIPTION

Estimated number of crop wild relatives actively conserved *in situ*

Estimated number of wild food plants actively conserved *in situ*

Date of estimation (YYYY/MM)

References link:reftab

²⁰ By “actively conserved” it is meant that the target species are specifically addressed by the management plan of the conservation area.

PRIORITY ACTIVITY 5: Supporting targeted collecting of plant genetic resources for food and agriculture

INDICATORS

- **Existence of a strategy for identification of gaps in national gene bank holdings and for targeted collecting missions to fill identified gaps**
- **Number of crops collections conserved in the national gene bank(s) that require targeted collecting**

QUESTION

5.1 Indicate in the table below, for each *ex situ* collection held by the national gene bank(s), if a strategy exists for the identification of gaps in the collection and for undertaking targeted collecting missions to fill identified gaps, the gaps detected and the methods used to detect the gaps [SH]²¹

COLUMN DESCRIPTION

Name of the *ex situ* collection link:protab

A strategy

- Exists for the identification of gaps in the collection and for targeted collecting missions
- Exists for the identification of gaps
- Does not exist

Targeted collecting is required

- Yes
- No

Gaps detected

- Incomplete coverage of targeted taxa
- Incomplete geographical coverage
- Missing known farmers' varieties/landraces
- Missing historical varieties

Other gaps detected

Methods used to detect gaps

- Comparison of stored material against organization mandate
- Comparison of stored material against historical references
- Comparison of stored material against geographical references

Other methods

²¹ Question 7.4 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATORS

- **Number of targeted collecting missions in the country**
- **Number of accessions resulting from targeted collecting missions in the country**

QUESTION

5.2 Enter in the table below any collecting mission²², providing details of the geographical area where the mission took place, taxon or crop and number of accessions collected, and number of collected accessions for which long-term conservation has been secured. [SH]²³

COLUMN DESCRIPTION

Name of collecting mission link:protab

Date (YYYY/MM) link:protab

Name of collection area link:aretab

Name of collected taxon link:taxtab

Name of collected crop

Number of collected accessions

Number of collected accessions secured in long-term conservation

²² Carried out during the reporting period with the participation of your organization.

²³ Question 7.1 in Annex 2 of CGRFA-10/04/Inf.5.

PRIORITY ACTIVITY 6: Sustaining and expanding *ex situ* conservation of germplasm

INDICATOR

- **Trend in annual capacity for sustaining *ex situ* collections**

QUESTION

6.1 Enter (update) in the table below, for each year since 2011, the capacity of the national programme for sustaining *ex situ* collections in your country in terms of human and financial resources and infrastructure expressed as a percentage of the capacity in 2010. [NFP]

COLUMN DESCRIPTION

Year

Human resources capacity (100 in 2010)

Financial resources (recurrent costs) capacity (100 in 2010)

Infrastructure (capital costs) capacity (100 in 2010)

INDICATORS

- **Number of crops conserved *ex situ* under medium or long-term conditions²⁴**
- **Number of species conserved *ex situ* under medium or long-term conditions**
- **Number of accessions conserved *ex situ* under medium or long-term conditions**
- **Proportion of *ex situ* accessions safety duplicated**

QUESTION

6.2 Enter (update) in the table below, for each *ex situ* collection, held by your organization, and for each taxon or crop, sample status and geographic origin, the number of accessions stored in the collection, the number of accessions safety-duplicated in other gene banks and the name of the gene bank(s) holding such duplications. [SH]²⁵

COLUMN DESCRIPTION

Name of *ex situ* collection link:protab

Name of taxon link:taxtab

Name of crop

Status of accessions

• Wild • Weedy • Traditional cultivar/Landrace • Breeder's line • Mutant/Genetic stock • Advanced/Improved cultivar

Geographic origin

Number of accessions

Number of accessions safety-duplicated at other gene banks

²⁴ Also listed in Priority Activity 10: Promoting diversification of crop production and broadening crop diversity for sustainable agriculture.

²⁵ Question 5.2 in Annex 2 of CGRFA-10/04/Inf.5.

PRIORITY ACTIVITY 7: Regenerating and multiplying *ex situ* accessions

INDICATORS

- **Proportion of *ex situ* accessions in need of regeneration for which a budget for regeneration exists**
- **Number of *ex situ* accessions regenerated and/or multiplied**
- **Proportion of *ex situ* accessions in need of regeneration**

QUESTION

7.1 Enter in the table below, for each crop held in your *ex situ* collections, regeneration priority status, number of accessions already regenerated and/or multiplied, number of accessions requiring regeneration, and the proportion of these for which a budget for regeneration exists. [SH]²⁶

COLUMN DESCRIPTION

Name of crop/crop group

Regeneration priority status

- Priorities not yet set
- Priorities are set but no activities have been done
- Priorities are set and activities are underway

Number of accessions already regenerated and/or multiplied

Number of accessions in need of regeneration

Proportion of these accessions for which a budget for regeneration exists

²⁶ Question 6.1 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

PRIORITY ACTIVITY 8: Expanding the characterization, evaluation and further development of specific collection sub-sets to facilitate use

INDICATOR

- **Average number of morphological traits characterized per accession for the *ex situ* collections**

QUESTION

8.1 Enter in the table below, for each *ex situ* collection and taxon or crop/crop group, the number of accessions and the average number of morphological traits characterized per accession and its standard deviation. [SH]

COLUMN DESCRIPTION

Name of *ex situ* collection link:protab

Name of taxon link:taxtab

Name of crop/crop group

Number of accessions

Average number of morphological traits characterized per accession

Standard deviation

INDICATOR

- **Number of publications on germplasm evaluation and molecular characterization**

QUESTION

8.2 Enter in the table below any publication²⁷ on characterization based on molecular markers and on evaluation for agronomic and biochemical traits as well as biotic and abiotic stresses of germplasm conserved *ex situ* in the country. [SH]

COLUMN DESCRIPTION

Reference link:reftab

Topic

- Characterization based on molecular markers
- Evaluation of agronomic traits
- Evaluation of biochemical traits
- Evaluation of abiotic stresses
- Evaluation of biotic stresses

²⁷ Produced during the reporting period with the participation of your organization.

INDICATOR

- **Number of trait-specific collection subsets published**

QUESTION

8.3 Enter in the table below, for each *ex situ* collection and taxon or crop/crop group, the number of trait-specific collection subsets published. [SH]

COLUMN DESCRIPTION

Name of *ex situ* collection link:protab

Name of taxon link:taxtab

Name of crop/crop group

Number of trait-specific collection subsets published

References link:reftab

INDICATORS

- **Number of accessions distributed by gene banks to users of germplasm**
- **Number of samples distributed by gene banks to users of germplasm**

QUESTION

8.4 Enter in the table below, for each *ex situ* collection, taxon or crop/crop group, the number of accessions and the number of samples distributed by your gene bank to the different categories of recipients. [SH]

COLUMN DESCRIPTION

Name of *ex situ* collection link:protab

Name of taxon link:taxtab

Name of crop/crop group

Number of accessions distributed to National Agricultural Research Centres

Number of samples distributed to National Agricultural Research Centres

Number of accessions distributed to the Private Sector

Number of samples distributed to the Private Sector

Number of accessions distributed to Farmers or NGOs

Number of samples distributed to Farmers or NGOs

Number of accessions distributed to Others (national)

Number of samples distributed to Others (national)

Number of accessions distributed to foreign stakeholders

Number of samples distributed to foreign stakeholders

PRIORITY ACTIVITY 9: Supporting plant breeding, genetic enhancement and base-broadening efforts

INDICATOR

- **Number of crops with active public pre-breeding and breeding programmes**

QUESTIONS

9.1 Enter in the table below, for each crop breeding programme²⁸, the taxon/crop addressed, the improvement targets in terms of trait(s) or characteristic(s), agroecological zone(s) and/or farming system(s) the improvement applies to, providing an estimate of the importance of the improvement in terms of food security, and detail germplasm source(s), the type of participatory breeding activities conducted, the number of professional staff involved, output(s) achieved so far and year of achievement. [SH]²⁹

COLUMN DESCRIPTION

Name of programme/project/activity link:protab

Date (YYYY/MM) link:protab

Name of taxon link:taxtab

Name of crop

Trait(s)/characteristic(s) addressed

Agroecological zone(s)/Farming system(s) (the improvement applies to)

Estimated importance of the improvement in terms of food security for the specified agroecological zone/farming system

• Limited • Medium • High

Germplasm source(s)

- Local gene bank
- National gene bank
- Regional/International network
- CGIAR gene bank
- Public organization from developed country
- Public organization from developing country
- Private sector

Participatory breeding involved farmers in:

- Setting breeding priorities
- Selecting from fixed lines or finished varieties (participatory varietal selection)
- Selecting from segregating populations
- Making crosses and/or determining parents

Number of professional staff involved

Output produced

Year of output production

²⁸ Carried out during the reporting period with the participation of your organization.

²⁹ Question 10.2 in Annex 2 of CGRFA-10/04/Inf.5.

9.2 Enter in the table below any genetic enhancement (including base-broadening) programme/project/activity³⁰ and specify the type of and rationale for each activity, details of the starting materials and methods for assessing diversity in them, and indicate whether or not farmers are involved in the activity. [SH]³¹

COLUMN DESCRIPTION

Name of programme/project/activity link:protab

Date (YYYY/MM) link:protab

Name of taxon link:taxtab

Type of activity

- Genetic enhancement by introgression for specific traits
- Population improvement through incorporation or base broadening

Other type of activity

Rationale for activity

- Poor gain in breeding programme
- Specific trait not available in current breeding materials
- Evidence of narrow genetic base

Other rationale for activity

Assessment of genetic diversity was made through

- Molecular markers
- Pedigree studies
- Other methods
- No assessment made

Starting materials

- Local varieties/landraces
- Improved varieties in use in your country
- Exotic varieties
- Wild relatives

Farmers involvement

- Setting priorities
- Implementing programme

³⁰ Carried out during the reporting period with the participation of your organization.

³¹ Question 10.3 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR

- **Number of active public crop breeders**

QUESTION

9.3 Enter in the table below the number of active public crop breeders for the different crop groups and specify the source and year of information. [NFP]

COLUMN DESCRIPTION

Crop group

- Cereals
- Grain legumes
- Roots and tubers
- Fruits
- Vegetables
- Forages
- Fiber plants
- Oil plants
- Sugar plants

Other crop group

Number of active public crop breeders

Reference link:reftab

Year of information

INDICATOR

- **Number of new varieties released³²**

Please see Priority Activity 12: Supporting seed production and distribution

³² Also listed in Priority Activity 12: Supporting seed production and distribution.

PRIORITY ACTIVITY 10: Promoting diversification of crop production and broadening crop diversity for sustainable agriculture

INDICATOR

- **Number of programmes/projects/activities to increase genetic heterogeneity of crop species and diversity within the agro-ecosystem**

QUESTION

10.1 Enter in the table below any programme/project/activity³³ related to assessment or improvement of diversity within and among crops or crop production, indicating the crop(s) and topics covered and any relevant publication. [SH]³⁴

COLUMN DESCRIPTION

Name of programme/project/activity link:protab

Name of taxon link:taxtab

Name of crop

Topics covered

- Assessing/monitoring intra-specific diversity in crops
- Increasing intra-specific diversity in crops
- Assessing/monitoring diversity in agricultural systems
- Increasing diversity in agricultural systems
- Participatory diversity methods applied

Reference link:reftab

INDICATOR

- **Number of new crops and/or wild species introduced into cultivation**

QUESTION

10.2 Enter in the table below any new crop and/or wild species introduced into cultivation³⁵ specifying the main cultivation area(s). [NFP]

COLUMN DESCRIPTION

Name of the new crop

Name of taxon link:taxtab

Name of the main cultivation area(s) link:aretab

³³ Carried out during the reporting period with the participation of your organization.

³⁴ Question 11.1 in Annex 2 of CGRFA-10/04/Inf.5.

³⁵ During the reporting period.

INDICATORS

- **Number of farmers' varieties/landraces delivered from national and local gene banks to farmers (either direct or through intermediaries)³⁶**

Please see Priority Activity 2: Supporting on-farm management and improvement of plant genetic resources for food and agriculture

- **Number of crops conserved *ex situ* under medium or long-term conditions³⁷**

Please see Priority Activity 6: Sustaining and expanding *ex situ* conservation of germplasm

³⁶ Also listed in Priority Activity 2: Supporting on-farm management and improvement of plant genetic resources for food and agriculture.

³⁷ Also listed in Priority Activity 6: Sustaining and expanding *ex situ* conservation of germplasm.

PRIORITY ACTIVITY 11: Promoting development and commercialization of all varieties, primarily farmers' varieties/landraces and underutilized species

INDICATOR

- **Number of programmes/projects/activities promoting development and commercialization of all varieties, primarily farmers' varieties/landraces and underutilized species**

QUESTION

11.1 Enter in the table below any programme/project/activity³⁸ related to the development or commercialization of all varieties, primarily farmers' varieties/landraces and underutilized crops or species, indicating, for each taxon or crop, references, geographical areas and topics covered. [SH]³⁹

COLUMN DESCRIPTION

Name of programme/project/activity link:protab

Target

- All varieties
- Farmers' varieties/landraces
- Underutilized crops or species

Name of taxon link:taxtab

Name of crop

Reference link:reftab

Areas of interest link:aretab

Topics covered

- Research
- Crop improvement
- Seed distribution
- Improving processing
- Market development
- Public awareness
- Policy changes

Other project topics

³⁸ Carried out during the reporting period with the participation of your organization.

³⁹ Question 12.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR

- **Number of farmers' varieties/landraces and underutilized species with potential for commercialization identified**

QUESTIONS

11.2 Enter in the table below, for each relevant taxon or crop, the number of farmers' varieties/landraces with potential for commercialization identified so far. [SH]

COLUMN DESCRIPTION

Name of taxon link:taxtab

Name of crop

Number of farmers' varieties/landraces with potential for commercialization identified

11.3 Enter in the table below the underutilized species with potential for commercialization identified until now, rank them in terms of priority and detail the progress achieved so far toward their development and sustainable use in the country. [NFP]⁴⁰

COLUMN DESCRIPTION

Name of taxon link:taxtab

Name of crop

Priority for the country

• Low • Low-medium • Medium • Medium-high • High

Geographical distribution mapping

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

Characterization/evaluation

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

Crop improvement

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

Post harvest processing

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

Marketing

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

Multiplication of seed/planting material

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

Documentation in information systems

• No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed

⁴⁰ Question 12.1 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR

- **Existence of national policies that promote development and commercialization of farmers' varieties/landraces and underutilized species**

QUESTION

11.4 Enter in the table below any national policy/legal framework (including strategies) in place to promote the development and commercialization of farmers' varieties/landraces and underutilized species. [NFP]

COLUMN DESCRIPTION

Policy/legal framework (including strategies) link:reftab

Year of publication link:reftab

Topic promoted

- development and commercialization of farmers' varieties/landraces
- development and commercialization of underutilized species

PRIORITY ACTIVITY 12: Supporting seed production and distribution

INDICATOR

- **Number of new varieties released**⁴¹

QUESTION

12.1 Enter in the table below all varieties released⁴², specifying type, origin, year of registration (when apply) and release, target agro-ecological environment(s) and important characteristics. [NFP]⁴³

COLUMN DESCRIPTION

Name of crop

Name of cultivar link:cultab

Type

- Farmers' variety/landrace
- Improved variety

Origin

- National
- Introduced from abroad

Year of registration

Year of release

Target agro-ecological environment(s)

Important characteristics

INDICATOR

- **Number of formal/registered seed enterprises**

QUESTION

12.2 Enter in the table below the most updated number of formal/registered seed enterprises in the country, specifying the source and year of information. [NFP]

COLUMN DESCRIPTION

Number of formal/registered seed enterprises

Reference link:retab

Year of information

⁴¹ Also listed in Priority Activity 9: Supporting plant breeding, genetic enhancement and base-broadening efforts.

⁴² During the reporting period.

⁴³ Question 13.7 in Annex 2 of CGRFA-10/04/Inf.5 - partially simplified.

INDICATOR

- **Number of most popular varieties that together account for 80% of the total area for each of the five most widely cultivated crops**

QUESTION

12.3 Enter in the table below, for each of the five most widely cultivated crops and for the most recent year with available relevant statistics, the number of the most popular varieties that together account for 80% of the total crop area. [NFP]

COLUMN DESCRIPTION

Year

Name of crop

Least number of varieties in 80% of the total crop area

INDICATOR

- **Proportion of area supplied with seed by the formal seed sector for the five most widely cultivated crops**

QUESTION

12.4 Enter in the table below, for each of the five most widely cultivated crops and for the most recent year with available relevant statistics, the total harvested area, the amounts of seed imports and exports, the amount of labeled seed production and the average sowing rate. [NFP]

COLUMN DESCRIPTION

Year

Name of crop

Total harvested area (ha)

Seed imports (tonnes)

Seed exports (tonnes)

Labelled (formal) seed production (tonnes)

Average sowing rate (kg/ha)

INDICATOR

- **Existence of a national seed policy and seed law**

QUESTION

12.5 Enter in the table below reference(s) to the national seed policy(ies) and to the seed law(s). [NFP]

COLUMN DESCRIPTION

Reference link:reftab

Year of publication link:reftab

PRIORITY ACTIVITY 13: Building and strengthening national programmes

INDICATOR

- **Existence of a national entity (agency, committee, etc.) functioning as a coordination mechanism for PGRFA activities and/or strategies**

QUESTION

13.1 Enter in the table below the national entity (agency, committee, etc.) functioning as a governance structure responsible for coordinating and/or facilitating PGRFA activities in the country, specifying the year of establishment, mandate, the categories of stakeholders represented and the frequency of meetings. [NFP]⁴⁴

COLUMN DESCRIPTION

Name of entity link:instab

Year of establishment

Year of latest restructuring

Additional mandate

- Forest genetic resources
- Animal genetic resources

Description of objectives

Frequency of meetings

- Quarterly during a year • Twice a year • Annual • Every two years • Every three years • Irregular • Other

Date of last meeting (YYYY/MM)

Participating partners

- Plant breeders
- Farmers
- Private sector
- NGOs
- Universities
- National gene banks
- Community organizations
- Ministry of Agriculture
- Ministry of the Environment

Other participating partners

⁴⁴ Question 15.1 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR

- **Existence of a formally appointed national focal point or coordinator for PGRFA**

QUESTION

13.2 Enter in the table below title, position, name and address of the National Focal Point or coordinator for PGRFA officially appointed. [NFP]

COLUMN DESCRIPTION

Name of Focal Point/Coordinator link:pertab

Date of appointment (YYYY/MM)

INDICATOR

- **Existence of a governmental policy framework and strategies for PGRFA conservation and use**

QUESTION

13.3 Enter in the table below any governmental policy framework and strategy for PGRFA conservation and use in place. [NFP]

COLUMN DESCRIPTION

Reference link:reftab

Year of publication link:reftab

INDICATOR

- **Existence of a national information sharing mechanism for PGRFA**

QUESTION

13.4 Enter in the table below any national information sharing mechanism for PGRFA in place and indicate the number of contributing stakeholders. [NFP]

COLUMN DESCRIPTION

Reference link:reftab

Year of publication link:reftab

Number of contributing stakeholders

PRIORITY ACTIVITY 14: Promoting and strengthening networks for plant genetic resources for food and agriculture

INDICATOR

- **Membership to a regional PGRFA network**

QUESTION

14.1 Enter in the table below PGRFA regional networks that the country is a member of. [NFP]⁴⁵

COLUMN DESCRIPTION

Name of network link:instab

INDICATOR

- **Number of crop improvement networks that national stakeholders are members of**

QUESTION

14.2 Enter in the table below the crop improvement networks that national stakeholders are members of. [SH]

COLUMN DESCRIPTION

Name of network link:instab

INDICATOR

- **Number of publications produced by national stakeholders within the framework of networks**

QUESTION

14.3 Enter in the table below any publication produced⁴⁶ within the framework of networks. [SH]

COLUMN DESCRIPTION

Reference link:instab

⁴⁵ Question 16.1 in Annex 2 of CGRFA-10/04/Inf.5.

⁴⁶ During the reporting period by your organization.

PRIORITY ACTIVITY 15: Constructing and strengthening comprehensive information systems for plant genetic resources for food and agriculture

INDICATOR

- **Number of crop wild relatives conserved *in situ* and documented in a publicly available information system**

QUESTION

15.1 Enter in the table below the number of crop wild relatives conserved *in situ* and documented in a publicly available information system, specifying the number of sites in which they are conserved and the name and address of the information system. [NFP]

COLUMN DESCRIPTION

Number of crop wild relatives
Number of conservation sites
Information system link:systab
System web address link:systab

INDICATOR

- **Number of farmers' varieties/landraces cultivated on-farm and documented in a publicly available information system**

QUESTION

15.2 Enter in the table below the number of farmers' varieties/landraces cultivated on-farm and documented in a publicly available information system, specifying the proportion of them with published description and geographic distribution data, and the name and address of the information system. [NFP]

COLUMN DESCRIPTION

Number of farmers' varieties/landraces
Proportion of farmers' varieties/landraces with morphological description
Proportion of farmers' varieties/landraces with agronomic description
Proportion of farmers' varieties/landraces with geographic distribution data
Information system link:systab
System web address link:systab

INDICATOR

- **Number of accessions from *ex situ* collections documented in a publicly available information system**

QUESTION

15.3 Enter in the table below the number of accessions from *ex situ* collections held by your organization and documented in a publicly available information system, specifying the proportion of them with published characterization and evaluation data, and the name and address of the information system. [SH]

COLUMN DESCRIPTION

Name of *ex situ* collection link:protab
Number of accessions documented
Proportion of accessions with characterization data
Proportion of accessions with evaluation data
Information system link:systab
System web address link:systab

INDICATOR

- **Number of released varieties documented in a publicly available information system**

QUESTION

15.4 Enter in the table below the number of varieties released and documented in a publicly available information system, specifying the name and address of the information system. [NFP]

COLUMN DESCRIPTION

Number of released varieties
Published information includes
 Pedigree
 Agronomic description
 Seed source
Information system link:systab
System web address link:systab

INDICATOR

- **Participation in publicly accessible, international/regional PGRFA information systems**

QUESTION

15.5 Enter in the table below the international/regional PGRFA information system publicly accessible to which your organization contributes information, specifying the frequency of updates. [SH]

COLUMN DESCRIPTION

International/regional information system link:systab
Frequency of updates
 • Daily • Monthly • Annually • Every two years or more

PRIORITY ACTIVITY 16: Developing and strengthening systems for monitoring and safeguarding genetic diversity and minimizing genetic erosion of plant genetic resources for food and agriculture

INDICATORS

- **Proportion of PGRFA threatened out of those surveyed/inventoried⁴⁷**

Please see Priority Activity 1: Surveying and inventorying plant genetic resources for food and agriculture

- **Existence of national systems to monitor and safeguard genetic diversity and minimize genetic erosion**

QUESTION

16.1 Enter in the table below any national system in place to monitor and safeguard genetic diversity and minimize genetic erosion and indicate the number of contributing stakeholders. [NFP]

COLUMN DESCRIPTION

Reference link:reftab

Year of publication link:reftab

Number of contributing stakeholders

INDICATOR

- **Number of remedial actions resulting from the existing national systems to monitor and safeguard genetic diversity and minimize genetic erosion**

QUESTION

16.2 Enter in the table below any remedial action⁴⁸ resulting from the existing national systems to monitor and safeguard genetic diversity and minimize genetic erosion. [NFP]

COLUMN DESCRIPTION

Remedial action link:protab

⁴⁷ Also listed in Priority Activity 1: Surveying and inventorying plant genetic resources for food and agriculture.

⁴⁸ Carried out during the reporting period.

PRIORITY ACTIVITY 17: Building and strengthening human resource capacity

INDICATOR

- **Existence of post-graduate, graduate and secondary educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use**

QUESTION

17.1 Indicate in the table below the availability in your country⁴⁹ of post-graduate, graduate and secondary educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use. [NFP]

COLUMN DESCRIPTION

Educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use:

- Exist at post-graduate level
- Exist at graduate level
- Exist at secondary school level

INDICATOR

- **Proportion of staff whose skills in conserving and using PGRFA have been upgraded**

QUESTION

17.2 Enter in the table below the total number of professional staff in your organization working on PGRFA conservation and use and the number of those whose skills have been upgraded.⁵⁰ [SH]

COLUMN DESCRIPTION

Total number of PGRFA professionals

Number of PGRFA professionals who completed a PhD programme

Number of PGRFA professionals who completed a MSc programme

Number of PGRFA professionals who attended short courses and seminars

⁴⁹ During the reporting period.

⁵⁰ During the reporting period.

PRIORITY ACTIVITY 18: Promoting and strengthening public awareness of the importance of plant genetic resources for food and agriculture

INDICATORS

- **Existence of a public awareness programme promoting PGRFA conservation and utilization**
- **Number of stakeholder groups participating in the implementation of the public awareness programme**

QUESTION

18.1 Indicate in the table below if a public awareness programme promoting PGRFA conservation and utilization exists in the country and, if so, indicate the stakeholder groups participating in its implementation.[NFP]

COLUMN DESCRIPTION

A PGRFA public awareness programme

- Exist • Does not exist

Name of PGRFA public awareness programme link: protab

Stakeholder groups participating

- National gene banks
- Farmers
- Community organizations
- NGOs
- Plant breeders
- Private seed sector
- Universities
- Ministry of Agriculture
- Ministry of Environment

Other participating groups

INDICATOR

- **Number of types of products developed to raise public awareness**

QUESTION

18.2 Indicate in the table below the type of products developed⁵¹, media used, audience targeted and topics covered in creating awareness on the value of PGRFA. [SH]⁵²

COLUMN DESCRIPTION

Products developed

- Audio-visual products
- Display panels and posters
- Fact sheets
- Newsletters
- Reports (enter references below)
- Magazines (enter references below)
- WWW pages (enter references below)
- Accessories (t-shirts, caps, bags, etc.) /Gadgets

Media used

- Press
- Television
- Radio
- Internet
- Diversity fairs
- Conferences
- Educational events

Audiences targeted

- Policy makers
- Scientists
- Extension agents
- Farmers
- School children
- General public

Topics covered

- Importance of PGRFA as part of biodiversity
- Farmers' role
- National policy
- Environmental education

Reference link:reftab

⁵¹ During the reporting period by your organization.

⁵² Question 20.6 in Annex 2 of CGRFA-10/04/Inf.5.

ANNEX II

REPORTING FORMAT: COMMON TABLES

Annex II contains a description of nine common tables. Each table is used to store detailed information about nine different entities, namely, organizations, contact persons, programmes/projects/activities, taxa, cultivars, geographical areas, information systems, published/unpublished references, and agreements, which are referred to by several tables throughout the reporting format (Annex I).

These common tables have been used by NISMs for monitoring the first GPA. Information available at FAO on the above nine entities⁵³ would be made available to countries through the upgraded information system (please see paragraph 5 in this document).

⁵³ www.pgrfa.org

The 'ORGANIZATIONS table' (instab) contains contact information on institutes, organizations and networks, as well as departments or subordinate structures within them. The field 'parent organization' is used to build hierarchies among the table entries.

COLUMN DESCRIPTION

Name of organization

Organization acronym

WIEWS instcode

Parent organization link:instab

Address

ZIP code

City

Country

Telephone

Fax

Email address

WWWaddress

Organization authority status

• Governmental • Non-Governmental • International • Regional • Parastatal • Private •
United Nations • CGIAR

Organization role categories

- Gene bank (long term collections)
- Gene bank (medium term collections)
- Gene bank (short term collections)
- Botanical garden
- Breeder
- Network
- Community
- Educational
- Seed producer
- Seed supplier
- Farmer community
- Research
- Extensionist
- Publisher
- Laboratory
- Administration/Policy

The 'CONTACT PERSONS table' (pertab) contains contact information on persons, including phone and email address. Persons are usually associated with organizations in the organization table, where the mail address is stored.

COLUMN DESCRIPTION

Last name

Title

First name

Position

Country of residence

Email address

Telephone

Organization link:instab

The 'PROJECTS table' (protab) collects data on programmes, projects, activities, plans, courses, etc. A flag field indicates the context and serves for analysis and filtering entries that belong to different priority activity areas.

COLUMN DESCRIPTION

Name

Acronym/code

Type

• Programme • Project • Activity • Workshop • Seminar • Symposium • Academic course • Short course • Not applicable

Status

• Proposed • Approved • On-going • Completed

Starting date (YYYY/MM)

Ending date (YYYY/MM)

Parent Project/Activity link:protab

Description

Co-ordinator link:pertab

Co-ordinating organization link:instab

Participants link:pertab

Participating organizations link:instab

Participating countries

Associated networks link:instab

Budget amount

Budget currency units

(continued on next page)

Budget type

- Annual • Total

Categories of funding sources

- Coordinating organization
- Participating organizations
- National Programme
- Associated networks

Funding sources link:instab**Scope**

- Institutional • Local • National • Regional • International

Second GPA priority activities addressed

- Surveying and inventorying PGRFA
- Supporting on-farm management and improvement of PGRFA
- Assisting farmers in disaster situations
- Promoting *in situ* conservation of crop wild relatives and wild food plants
- Supporting targeted collecting of PGRFA
- Sustaining and expanding existing *ex situ* collections
- Regenerating and multiplying *ex situ* accessions
- Expanding the characterization, evaluation and specific collection sub-sets
- Supporting plant breeding, genetic enhancement and base-broadening efforts
- Promoting diversification of crops and broadening crop diversity for sustainable agriculture
- Promoting development and commercialization of all varieties, primarily farmers' varieties/landraces and underutilized species
- Supporting seed production and distribution
- Building and strengthening national programmes
- Promoting and strengthening networks for PGRFA
- Constructing and strengthening comprehensive information systems for PGRFA
- Developing and strengthening and safeguarding genetic diversity and minimizing genetic erosion of PGRFA
- Building and strengthening human resource capacity
- Promoting and strengthening public awareness of the importance of PGRFA

GPA priority activities addressed

- Surveying and inventorying PGRFA
- Supporting on-farm management of PGRFA Assisting farmers in disaster situations
- Promoting *in situ* conservation of crop wild relatives and wild food plants

(continued on next page)

- Sustaining existing *ex situ* collections
- Regenerating threatened *ex situ* collections
- Supporting planned and targeted collecting of PGRFA
- Expanding *ex situ* conservation activities
- Expanding the characterization, evaluation and number of core collections
- Increasing genetic enhancement and base-broadening efforts
- Promoting sustainable agriculture
- Promoting development and commercialization of under-utilized crops and species
- Supporting seed production and distribution
- Developing new markets for local varieties and 'diversity rich' products
- Building strong national programmes
- Promoting networks for PGRFA
- Constructing comprehensive information systems for PGRFA
- Developing monitoring and early warning systems for loss of PGRFA
- Expanding and improving education and training
- Promoting public awareness of the value of PGRFA conservation and use

The 'TAXA table' (taxtab) contains data on scientific plant names and authorities.

COLUMN DESCRIPTION

Name of taxon

Name of authority

Botanical family

Taxonomic status

Preferred taxon name link:taxtab

The 'CULTIVARS table' (cultab) contains data on cultivated varieties, their pedigree and origin.

COLUMN DESCRIPTION

Name of taxon link:taxtab

Cultivar name

Breeding organization link:instab

Breeder person link:pertab

Breeder's cultivar ID

Pedigree

Note

Preferred cultivar name link:cultab

The 'AREAS table' (aretab) is used to store data on geographical areas within countries. There is no attempt to be complete in the description of the area - the only required field is the area name. If longitudes and latitudes are entered they should refer to a central point within the area, which can be used to plot areas on a map. The area size field is useful for the same purpose, but is not required. It is possible to enter whole countries or even larger geographic areas into the area table, but no attempt is made to build hierarchies between such areas.

COLUMN DESCRIPTION

Name of area

Size of area

Size unit

• Square kilometers • Hectares • Square miles • Acres

Longitude

Latitude

Communities covered link:instab

The 'INFOSYS table' (systab) contains data on information system software used to store, manage and analyze PGRFA data.

COLUMN DESCRIPTION

Name of system

Acronym

Last release date (YYYY/MM)

Last version

System coverage

- In situ*
- Ex situ* (single crop)
- Ex situ* (multi-crop)

Data type

- Full detail • Meta-data

System capabilities

- Management of transaction data
- Management of passport data
- Management of inventory data
- Management of quality control data
- Management of regeneration data
- Management of characterization/evaluation data
- Management of cultivar data
- Management of taxonomic synonyms
- Management of data on organizations

(continued on next page)

- Management of data on contact persons
- Management of references
- Management of geo-referenced data (GIS)
- Management of environmental data
- Management of ecological data

System usability

- Single-user (stand-alone) • Multi-user (network-based)

Update capabilities

- Read-only • Read/Write

System availability

- Free, open source • Free, closed source • Non-free • Not available

Database engine

- SQL-based • DB2-based • AceDB-based • Xbase-based • MS-Access • Other

Client interface

- Browser-based • Java-based • Windows proprietary • MacIntosh proprietary • Unix proprietary • Other

Links to other relevant national information systems

- Seed stocks
- Plant breeders
- Geo-referenced botanic distributions
- Taxonomic reference systems
- Others

WWWaddress

The 'REFERENCES table' (reftab) is used to collect data on references. The structure follows the BibTex standard in order to allow easier processing with existing BibTex tools, e.g. to produce lists of references in standard format. A reference can be an electronic document, such as a web-site on the Internet.

COLUMN DESCRIPTION

Title

Author

Type of reference

- Article • Booklet • InBook • InProceedings • MastersThesis • PhDThesis • Manual • TechReport • Book • Proceeding • Catalogue • Misc • Unpublished • Web page • Draft law • Bill • Law • Regulation

Journal

Year of publication

Volume

(continued on next page)

Number
Pages/Page range
Book title/Proceeding
Editor
Edition
Series
Language
Publisher
Place
ISBN
ISSN
WWW address
Abstract
Cross-reference link:reftab

The 'AGREEMENTS table' (agrtab) contains data on bilateral or multilateral agreements.

COLUMN DESCRIPTION

Name of agreement

Agreement acronym

Parent agreement link:agrtab

Other parties link:instab

Agreement type

- International treaty/convention
- Regional treaty/convention
- National treaty/convention
- Other multilateral agreement
- Bilateral agreement
- Memorandum of understanding

Signing date (YYYY/MM)

Ratification date (YYYY/MM)

Valid until (YYYY/MM)