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COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE

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

TABLE OF CONTENTS

	Paragraphs
I. Introduction.....	1 - 7
<i>Annex I:</i> Reporting format	
<i>Annex II:</i> Reporting format - common tables	

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I. INTRODUCTION

1. According to the Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture (Second GPA), overall progress on its implementation and the related follow-up processes will be monitored and guided by governments and other FAO Members through the Commission on Genetic Resources for Food and Agriculture (the Commission). The Second GPA stipulates that, to this end, the Commission, at its Fourteenth Regular Session, will agree on formats for progress reports as well as on criteria and indicators for monitoring the implementation of the Second GPA, building on previous work done by the Commission in the development of such indicators and reporting format.

2. This document contains the *Reporting Format for Monitoring the Implementation of the Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture* (Reporting Format) which has been prepared on the basis of the indicators adopted by the Commission and published in *Appendix C* to the Report of the Fourteenth Regular Session.¹ The Reporting Format lists 51 questions covering the 63 indicators for monitoring the implementation of the 18 Priority Activities of the Second GPA, taking into consideration the availability and accessibility of data.

3. The Reporting Format responds to the need to further advance the use of the National Information Sharing Mechanisms (NISMs), including the monitoring approach, in light of the Second GPA². In preparing the Reporting Format, FAO took into consideration:

- previous work, including the reporting format adopted by the Commission in 2004;³
- experience gained in monitoring the implementation of the first GPA; and
- the need to maintain some continuity in reporting on the implementation of action taken for the conservation and sustainable use of plant genetic resources for food and agriculture through a country-led participatory process.

4. The Reporting Format reflects the need to limit the workload for countries on one hand and the need to collect a robust set of data that allow for an adequate and efficient assessment of the status of plant genetic resources for food and agriculture (PGRFA) and of the implementation of the Second GPA. It acknowledges other existing data sources applying international standards and makes provision for them to be incorporated without additional workload.

5. The Reporting Format includes a list of nine common tables referred to throughout the reporting format, which were also contained in the previous reporting format. The nine common tables provide a structured scheme for reporting complementary information which, although not required for the application of the proposed indicators, will be useful for their interpretation and for building a knowledge base on the implementation of the Second GPA.

6. The 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*,⁴ an upgrade of the information system currently used by NISMs for the monitoring of the GPA is being made available to facilitate data recording, sharing and analysis of the indicators and reporting format for the Second GPA.

7. The Reporting Format serves the purpose of guiding National Focal Points in the assessment of progress in the conservation and sustainable use of plant genetic resources for food and agriculture (PGRFA), including the preparation of their country reports. In addition, the Reporting Format may be used by the National Focal Points to gather valuable information from other stakeholders.

¹ CGRFA-14/13/Report.

² CGRFA-13/11/Report, paragraph 35.

³ CGRFA-10/04/Inf.5.

⁴ CGRFA-14/13/4.1 paragraph 18.

ANNEX I

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) and within each priority activity by the indicators for monitoring the implementation of the Second GPA which were adopted by the Commission at its 14th Regular Session (see CGRFA-14/13/Report, Appendix C).

The Reporting Format requires National Focal Points (NFPs) to report for each indicator whether it is applicable, and if so, whether data are available. In addition, in line with the three proposed higher-order composite indices for PGRFA⁵, NFPs are invited to provide an expert judgment on the level of achievement for each indicator, referred to as “rating by NFP”: on an categorical scale from 1 to 9, 1 represents the “least degree of implementation or achievement” and 9 a “full degree of implementation or achievement”.

The Reporting Format contains questions requesting information that is necessary in order to satisfy the indicators. All questions require the information to be recorded in a tabular format and provide a brief description of the table structure (columns). Columns which are required for the elaboration of the indicator(s) are displayed with a grey background.

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 51 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 2004⁶. Their original numbering is reported in a footnote for each of these questions.

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.

Unless otherwise specified the Reporting Format targets information on activities carried out during the reporting period (i.e. 1 January 2012 to 30 June 2014). The information requested is limited to activities in the country of the NFP.

⁵ CGRFA/WG-PGR-7/14/3 paragraphs 4-21

⁶ CGRFA-10/04/Inf.5 Annex 2.

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
1. Number of <i>in situ</i> (including on farm) surveys/inventories of PGRFA⁷ carried out	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>1.1 Enter in the table below for each crop, crop group or plant group the number of <i>in situ</i> and on farm surveys/inventories of PGRFA carried out during the reporting period. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Crop/crop group/plant group</p> <p>Number of surveys/inventories conducted</p>			

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
2. Number of PGRFA surveyed/inventoried	YES/NO	YES/NO	1-9
3. Percentage of PGRFA threatened⁸ out of those surveyed/inventoried	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>1.2 Enter in the table below the species of crops, crop wild relatives and wild food plants surveyed/inventoried <i>in situ</i> (including on farm) during the reporting period and indicate the species identified as threatened. For the crop species also indicate the number of varieties surveyed/inventoried within the crop and those that have been identified as threatened. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>PGRFA species surveyed/inventoried link:taxtab</p> <p>Threatened species</p> <p>• Yes •No</p> <p>Number of varieties surveyed/inventoried</p> <p>Number of varieties threatened</p>			

⁷ 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).

⁸ For the purpose of this Priority Activity, "threatened PGRFA" are considered any crops, crop varieties, crop wild relatives or wild food plants which are no longer cultivated or do no longer occur *in situ* in most of their previous areas of cultivation or occurrence.

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
4. Number of farming communities involved in on-farm PGRFA management and improvement activities	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>2.1 Enter in the table below any programme/project/activity carried out during the reporting period addressing on-farm management and improvement of PGRFA, and list local farmer communities involved. Optionally, also indicate the number of farmers involved and the type of activities. [SH]⁹</p> <p>COLUMN DESCRIPTION</p> <p>Name of on-farm management programme/project link:protab</p> <p>Starting date (YYYY/MM) link:protab</p> <p>Ending date (YYYY/MM) link:protab</p> <p>Local farmer community(ies) involved</p> <p>Number of farmers involved</p> <p>Activities include:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Pilot sites established in areas of high diversity <input type="checkbox"/> Pilot sites established in high risk areas <input type="checkbox"/> Assessment of farmers' knowledge <input type="checkbox"/> Characterization and evaluation of local varieties <input type="checkbox"/> Studies on local varieties population structure and dynamics <input type="checkbox"/> On-farm breeding <input type="checkbox"/> Seed multiplication and distribution of bred varieties <input type="checkbox"/> Assessment of local varieties utilization and management <input type="checkbox"/> Assessment of improved varieties utilization and management <input type="checkbox"/> Socio-economic assessment of PGRFA on-farm management and improvement <input type="checkbox"/> Environmental assessment of PGRFA on-farm management and improvement <p>Other activities</p>			

⁹ Question 2.1 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
5. Percentage of cultivated land under farmers' varieties/landraces in areas of high diversity and/or risk¹⁰	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>2.2 Enter in the table below the areas of high diversity and/or risk in your country and, for each crop or crop group, indicate the percentage of cultivated land under farmers' varieties/landraces out of the total cultivated land. Optionally, also indicate the reference(s) for the estimation. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Name of area of high diversity and risk link:aretab</p> <p>Name of crop/crop group</p> <p>Total area under the specified crop/crop group (ha)</p> <p>Percentage of cultivated land under farmers' varieties/landraces</p> <p>Year of estimation</p> <p>Reference link:reftab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
6. Number of farmers' varieties/landraces delivered from national or local genebanks to farmers (either directly or through intermediaries)	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>2.3 Enter in the table below, for each crop or crop group, the number of farmers' varieties/landraces provided during the reporting period by national or local genebanks to farmers (either directly or through intermediaries) [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group</p> <p>Number of distinct farmers' varieties/landraces delivered to farmers</p>			

¹⁰ Out of the total cultivated land in the same areas.

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
7. Number of households that received seeds for planting as an aid after disaster situations	YES/NO	YES/NO	1-9
8. Percentage of seed produced at the local level¹¹ out of that made available through disaster response interventions	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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 reintroduced, the amount and origin of seed distributed during the reporting period and the number of beneficiary households. Optionally, also indicate the name of the variety (ies) reintroduced, reintroduction date, the seed relief methodology used, the source of the germplasm and type of assessment made to guide the intervention. [SH]¹²</p> <p>COLUMN DESCRIPTION</p> <p>Name of disaster area link:aretab</p> <p>Type of disaster</p> <ul style="list-style-type: none"> • Flood • Fire • Typhoon/hurricane • Drought • Civil war • International war • Other (please specify) <p>Other types of disaster</p> <p>Date of disaster (YYYY/MM)</p> <p>Name of crop</p> <p>Amount of seed distributed/made available</p> <p>Unit of measure</p> <ul style="list-style-type: none"> • Grams • Kilograms • Tons • Units <p>Percentage of the seed distributed/made available which was locally produced</p> <p>Number of households that benefitted from seed aid</p> <p>Variety(ies) reintroduced link:cultab</p> <p>Date of reintroduction (YYYY/MM)</p> <p>Seed aid provided</p> <ul style="list-style-type: none"> <input type="checkbox"/> Through direct seed distribution <input type="checkbox"/> Indirectly, through a market-based approach (e.g. voucher schemes, seed fairs) <input type="checkbox"/> Community seed multiplication <p>Source of germplasm/seed</p> <ul style="list-style-type: none"> • Community seed bank • National genebank • Regional genebank • International genebank • Farmers • Commercial agencies • Other (please specify) <p>Other sources of germplasm/seed</p> <p>Assessments carried out</p> <ul style="list-style-type: none"> <input type="checkbox"/> To characterize the functioning of seed systems at farmers' level <input type="checkbox"/> To evaluate the impact of a disaster on farmers' seed systems 			

¹¹ Produced in neighbouring areas with similar agro-ecological conditions.

¹² Question 3.7 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
9. Existence of disaster risk management policies for restoring crop systems that include seed security provisions	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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]</p> <p>COLUMN DESCRIPTION</p> <p>Policy reference link:reftab</p> <p>Year of publication link:reftab</p>			

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
10. Percentage of national <i>in situ</i> conservation sites with management plans addressing crop wild relatives and wild food plants	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>4.1 Enter in the table below the number of national <i>in situ</i> conservation sites and the number of those that have management plans addressing crop wild relatives and wild food plants. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of national <i>in situ</i> conservation sites</p> <p>Number of national <i>in situ</i> conservation sites with management plans addressing crop wild relatives and wild food plants</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
11. Number of crop wild relatives and wild food plants <i>in situ</i> conservation and management actions with institutional support	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>4.2 Enter in the table below any programme/project/activity carried out during the reporting period on <i>in situ</i> conservation and management of crop wild relatives (CWR) and wild food plants (WFP) and the type of supporting institutions. Optionally, also indicate the area covered, taxa identified and additional topics addressed. [SH]¹³</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity link:protab</p> <p>Starting date (YYYY/MM) link:protab</p> <p>Ending date (YYYY/MM) link:protab</p> <p>Implemented with support from:</p> <ul style="list-style-type: none"> <input type="checkbox"/> National institution(s) <input type="checkbox"/> Private sector <input type="checkbox"/> Institution(s) from a foreign country <input type="checkbox"/> International research centre(s) <input type="checkbox"/> United Nations agency(ies) <input type="checkbox"/> Non Governmental Organization(s) <p>Name of conservation area link:aretab</p> <p>Type of area</p> <ul style="list-style-type: none"> <input type="checkbox"/> Protected <input type="checkbox"/> Restoration <p>Name of taxon link:taxtab</p> <p>Taxon group</p> <ul style="list-style-type: none"> <input type="checkbox"/> Crop Wild Relatives <input type="checkbox"/> Wild Food Plants <p>Additional topics</p> <ul style="list-style-type: none"> <input type="checkbox"/> Implementation of management practices to maintain high level of CWR/WFP genetic diversity <input type="checkbox"/> Involvement of local communities <input type="checkbox"/> Implementation of plans to encourage public participation <input type="checkbox"/> Arrangements for <i>ex situ</i> conservation of threatened and endangered CWR/WFP 			

¹³ Question 4.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
12. Number of crop wild relatives and wild food plants species actively¹⁴ conserved <i>in situ</i>	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>4.3 Enter in the table below the most recent estimation of the number of crop wild relatives, including all species from primary and secondary gene pools plus those from the tertiary gene pool previously used for breeding¹⁵, and of wild food plants species actively conserved <i>in situ</i> in your country and the date of estimation. Optionally, also indicate any reference to their estimation. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Taxon group • Crop Wild Relatives • Wild Food Plants • Crop Wild Relatives and Wild Food Plants</p> <p>Estimated number of species actively conserved <i>in situ</i></p> <p>Date of estimation (YYYY/MM)</p> <p>Reference(s) link:reftab</p>			

¹⁴ By “actively conserved” it is meant that the target species are specifically addressed by the management plan of the conservation area.

¹⁵ A country list of crop wild relatives can be retrieved from <http://www.cwrdiversity.org/>. All species from this list which are actively conserved *in situ* could then be counted.

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
13. Existence of a strategy for identification of gaps in national genebank holdings and for targeted collecting missions to fill identified gaps	YES/NO	YES/NO	1-9
14. Number of crops conserved in the national genebank(s) that require targeted collecting	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>5.1 Indicate in the table below, if by the end of the reporting period a strategy existed for the identification of gaps in the national genebank holdings and for undertaking targeted collecting missions to fill identified gaps that could not be filled by accessing other national or international genebanks and list the crops for which targeted collecting was required. Optionally, also indicate the gaps detected and the methods used to detect them. [SH]¹⁶</p> <p>COLUMN DESCRIPTION</p> <p>A strategy</p> <ul style="list-style-type: none"> • Exists for the identification of gaps in the collection • Exists for the identification of gaps and for targeted collecting missions • Does not exist <p>Targeted collecting was required for the following crop</p> <p>Gaps detected</p> <ul style="list-style-type: none"> <input type="checkbox"/> Incomplete coverage of targeted taxa <input type="checkbox"/> Incomplete geographical coverage <input type="checkbox"/> Missing known farmers' varieties/landraces <input type="checkbox"/> Missing historical varieties <input type="checkbox"/> Missing crop wild relatives <input type="checkbox"/> Incomplete biotic and abiotic stress resistance coverage <p>Other gaps detected</p> <p>Methods used to detect gaps</p> <ul style="list-style-type: none"> <input type="checkbox"/> Comparison of stored material against organization mandate <input type="checkbox"/> Comparison of stored material against historical references <input type="checkbox"/> Comparison of stored material against geographical references <p>Other methods</p>			

¹⁶ Question 7.4 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
15. Number of targeted collecting missions in the country	YES/NO	YES/NO	1-9
16. Number of accessions resulting from targeted collecting missions in the country	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>5.2 Enter in the table below any targeted collecting mission carried out in your country during the reporting period, providing details of the crops, taxa and number of accessions collected. Optionally, also indicate the number of collected accessions for which long-term conservation has been secured and the geographical area(s) where the mission took place. [SH]¹⁷</p> <p>COLUMN DESCRIPTION</p> <p>Name of collecting mission link:protab</p> <p>Starting date (YYYY/MM) link:protab</p> <p>Ending date (YYYY/MM) link:protab</p> <p>Name of collected crop</p> <p>Name of collected taxon link:taxtab</p> <p>Number of collected accessions</p> <p>Number of collected accessions secured in long-term conservation</p> <p>Name of collection area link:aretab</p>			

¹⁷ Question 7.1 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
17. Trend in annual capacity for sustaining <i>ex situ</i> collections	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>6.1 Enter (update) in the table below, for each year of the reporting period, the capacity of the national programme for sustaining <i>ex situ</i> collections in your country in terms of human and financial resources and infrastructure expressed as a percentage of the capacity in 2010. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Year</p> <p>Human resources capacity (100 in 2010)</p> <p>Financial resources (recurrent costs) capacity (100 in 2010)</p> <p>Infrastructure (capital costs) capacity (100 in 2010)</p>			

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
18. Number of crops conserved <i>ex situ</i> under medium or long-term conditions	YES/NO	YES/NO	1-9
19. Number of species conserved <i>ex situ</i> under medium or long-term conditions	YES/NO	YES/NO	1-9
20. Number of accessions conserved <i>ex situ</i> under medium or long-term conditions	YES/NO	YES/NO	1-9
21. Percentage of <i>ex situ</i> accessions safety duplicated	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>6.2 Enter in the table below, the accessions conserved <i>ex situ</i> under medium- or long-term conditions, indicating the holding institute WIEWS code, accession number, taxon, name of crop, acquisition date, country of origin, biological status and genebank(s) holding safety duplications. Optionally, also indicate latitude and longitude of collecting site, collecting/acquisition source, type of storage and status under the Multilateral System of the International Treaty on PGRFA. [SH]¹⁸</p> <p>COLUMN DESCRIPTION</p> <p>Holding institute code¹⁹ link:instab</p> <p>Accession number²⁰</p> <p>Name of taxon²¹ link:taxtab</p> <p>Name of crop²²</p> <p>Acquisition date (YYYY/MM)²³</p> <p>Country of origin²⁴</p> <p>Biological status of accession²⁵</p> <p>• 100) Wild • 200) Weedy • 300) Traditional cultivar/Landrace • 400) Breeding/research material • 500) Advanced/Improved cultivar • 600) GMO</p> <p>Genebank(s) holding safety duplications²⁶ link:instab</p> <p>Latitude of collecting site (decimal degrees format)²⁷</p> <p>Longitude of collecting site (decimal degrees format)²⁸</p> <p>Collecting/acquisition source²⁹</p> <p>• 10) Wild habitat • 20) Farm or cultivated habitat • 30) Market or shop • 40) Institute, Experimental station, Research organization, Genebank • 50) Seed company • 60) Weedy, disturbed or ruderal habitat</p> <p>Type of germplasm storage³⁰</p> <p><input type="checkbox"/> 12) Seed medium-term</p> <p><input type="checkbox"/> 13) Seed long-term</p> <p><input type="checkbox"/> 20) Field</p> <p><input type="checkbox"/> 30) In vitro</p> <p><input type="checkbox"/> 40) Cryopreservation</p> <p><input type="checkbox"/> 50) DNA</p> <p>Status under the Multilateral System³¹</p> <p>• Not included • Included</p>			

¹⁸ Question 5.2 in Annex 2 of CGRFA-10/04/Inf.5.

¹⁹ It corresponds to descriptor 1 (INSTCODE) of FAO/Bioversity Multi-Crop Passport Descriptors (MCPD) V.2

²⁰ It corresponds to descriptor 2 (ACCENUMB) of FAO/Bioversity MCPD V.2

²¹ The full taxon name without authority

²² It corresponds to descriptor 10 (CROPNAME) of FAO/Bioversity MCPD V.2

²³ It corresponds to descriptor 12 (ACQDATE) of FAO/Bioversity MCPD V.2

²⁴ It corresponds to descriptor 13 (ORIGCTY) of FAO/Bioversity MCPD V.2

²⁵ It corresponds to descriptor 19 (SAMPSTAT) of FAO/Bioversity MCPD V.2

²⁶ It corresponds to descriptor 25 (DUPLSITE) of FAO/Bioversity MCPD V.2

²⁷ It corresponds to descriptor 15.1 (DECLATITUDE) of FAO/Bioversity MCPD V.2

²⁸ It corresponds to descriptor 15.3 (DECLONGITUDE) of FAO/Bioversity MCPD V.2

²⁹ It corresponds to descriptor 21 (COLLSRC) of FAO/Bioversity MCPD V.2

³⁰ It corresponds to descriptor 26 (STORAGE) of FAO/Bioversity MCPD V.2

³¹ It corresponds to descriptor 27 (MLSSTAT) of FAO/Bioversity MCPD V.2

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
22. Percentage of <i>ex situ</i> accessions in need of regeneration for which a budget for regeneration does not exist	YES/NO	YES/NO	1-9
23. Number of <i>ex situ</i> accessions regenerated and/or multiplied	YES/NO	YES/NO	1-9
24. Percentage of <i>ex situ</i> accessions in need of regeneration	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>7.1 Enter in the table below, for each crop or crop group conserved <i>ex situ</i> by the national genebank(s), the number of accessions regenerated and/or multiplied during the reporting period, the number of accessions requiring regeneration and the number of these for which a budget for regeneration was not available during the reporting period. [SH]³²</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group</p> <p>Total number of accessions in the national genebank(s)</p> <p>Number of accessions regenerated and/or multiplied</p> <p>Number of accessions in need of regeneration</p> <p>Number of accessions in need of regeneration without a budget for regeneration</p>			

³² It is assumed that for determining regeneration needs a quality testing of the material conserved, especially viability testing for orthodox seeds, is carried out periodically by the national gene bank(s).

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
25. Average number of morphological traits characterized per accession for the <i>ex situ</i> collections	YES/NO	YES/NO	1-9
<p>QUESTIONS</p> <p>8.1 Enter in the table below the number of morphological traits characterized, for each accession conserved <i>ex situ</i> under medium- or long-term conditions, as reported under question 6.2. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Holding institute code³³ link:instab</p> <p>Accession number³⁴</p> <p>Name of taxon³⁵ link:taxtab</p> <p>Name of crop³⁶</p> <p>Number of morphological traits characterized</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
26. Number of publications on germplasm evaluation and molecular characterization	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>8.2 Enter in the table below the number of publications on characterization based on molecular markers and on evaluation for agronomic and biochemical traits as well as biotic and abiotic stresses of germplasm conserved <i>ex situ</i> in the country, that were produced during the reporting period by the national genebank(s) and by germplasm recipients, as reported to the national genebank(s). Optionally, list also the references. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Number of publications produced by the national genebank(s)</p> <p>Number of publications produced by germplasm recipients and reported to the national genebank(s)</p> <p>References link:reftab</p>			

³³ It corresponds to descriptor 1 (INSTCODE) of FAO/Bioversity Multi-Crop Passport Descriptors (MCPD) V.2

³⁴ It corresponds to descriptor 2 (ACCENUMB) of FAO/Bioversity MCPD V.2

³⁵ The full taxon name without authority

³⁶ It corresponds to descriptor 10 (CROPNAME) of FAO/Bioversity MCPD V.2

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
27. Number of trait-specific collection subsets published	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>8.3 Enter in the table below, for each crop, crop group or plant group conserved by the national genebank(s), the number of trait-specific collection subsets published during the reporting period. Optionally, also indicate the references. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group/plant group</p> <p>Number of trait-specific collection subsets published</p> <p>References link:reftab</p>			

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
28. Number of accessions distributed by genebanks to users of germplasm	YES/NO	YES/NO	1-9
29. Number of samples distributed by genebanks to users of germplasm	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>8.4 Enter in the table below, for each crop or crop group, the number of accessions and the number of samples distributed during the reporting period by the national genebank(s). Optionally, also indicate the amounts distributed to the different categories of recipients. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group</p> <p>Total number of accessions distributed by the national genebank(s)³⁷</p> <p>Number of accessions distributed to National Agricultural Research Centres</p> <p>Number of accessions distributed to the private sector</p> <p>Number of accessions distributed to farmers or Non Governmental Organizations</p> <p>Number of accessions distributed to others (national)</p> <p>Number of accessions distributed to foreign stakeholders</p> <p>Number of accessions distributed to unknown</p> <p>Total number of samples distributed by the national genebank(s)³⁸</p> <p>Number of samples distributed to National Agricultural Research Centres</p> <p>Number of samples distributed to the private sector</p> <p>Number of samples distributed to farmers or Non Governmental Organizations</p> <p>Number of samples distributed to others (national)</p> <p>Number of samples distributed to foreign stakeholders</p> <p>Number of samples distributed to unknown</p>			

³⁷ The sum of the amounts in the following six columns may not equal the total reported here.

³⁸ The sum of the amounts in the following six columns should equal the total reported here.

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
30. Number of crops with active public pre-breeding and breeding programmes	YES/NO	YES/NO	1-9
31. Number of crops with active private pre-breeding and breeding programmes	YES/NO	YES/NO	1-9
32. Number of breeding activities oriented to small scale farmers, villages or traditional communities	YES/NO	YES/NO	1-9
<p>QUESTIONS</p> <p>9.1 Enter in the table below, any public and/or private crop breeding programme which has been active during the reporting period, and the taxon and crop addressed, indicating those programmes oriented to small scale farmers, villages or traditional communities. Optionally, also indicate 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]³⁹</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme link:protab Starting date (YYYY/MM) link:protab Ending date (YYYY/MM) link:protab Sector • Public • Private • Public and private Name of crop Name of taxon link:taxtab Breeding activities oriented to <input type="checkbox"/> Small scale farmers <input type="checkbox"/> Villages or communities that use traditional farmers' varieties/landraces 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) <input type="checkbox"/> Local genebank <input type="checkbox"/> National genebank <input type="checkbox"/> Regional/International network <input type="checkbox"/> CGIAR genebank <input type="checkbox"/> Public organization from developed country <input type="checkbox"/> Public organization from developing country <input type="checkbox"/> Private sector Participatory breeding involved farmers in: <input type="checkbox"/> Setting breeding priorities <input type="checkbox"/> Selecting from fixed lines or finished varieties (participatory varietal selection) <input type="checkbox"/> Selecting from segregating populations <input type="checkbox"/> Making crosses and/or determining parents Number of professional staff involved Output produced Year of output production</p>			

³⁹ Question 10.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

9.2 Enter in the table below any public and/or private genetic enhancement (including base-broadening) programme which has been active during the reporting period and targeted taxon and crop. Optionally, also specify the type of and rationale for the activities undertaken, details of the starting materials and methods for assessing diversity in them, and type of farmers' involvement. [SH]⁴⁰

COLUMN DESCRIPTION

Name of programme link:protab

Starting date (YYYY/MM) link:protab

Ending date (YYYY/MM) link:protab

Sector

- Public • Private • Public and private

Name of crop

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

⁴⁰ Question 10.3 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
33. Number of active public crop breeders	YES/NO	YES/NO	1-9
34. Number of active private crop breeders	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>9.3 Enter in the table below the number of active public or private crop breeders for the different crop groups specifying the year of the information.⁴¹ Optionally, also indicate the source of the information. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Crop group</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cereals <input type="checkbox"/> Grain legumes <input type="checkbox"/> Roots and tubers <input type="checkbox"/> Fruits <input type="checkbox"/> Vegetables <input type="checkbox"/> Forages <input type="checkbox"/> Fiber plants <input type="checkbox"/> Oil plants <input type="checkbox"/> Sugar plants <p>Other crop group</p> <p>Number of active public crop breeders</p> <p>Number of active private crop breeders</p> <p>Year of information</p> <p>Reference link:reftab</p>			

⁴¹ The year of the information should be within or as close as possible to the years of the reporting period.

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
35. Number of programmes/projects/activities to increase genetic heterogeneity of crop species and diversity within the agro-ecosystem	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>10.1 Enter in the table below any programme/project/activity carried out during the reporting period related to improvement of plant genetic diversity within the agro-ecosystem and its crops, indicating the targeted crop(s). Optionally also indicate topics covered and any relevant publication. [SH]⁴²</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity link:protab</p> <p>Starting date (YYYY/MM) link:protab</p> <p>Ending date (YYYY/MM) link:protab</p> <p>Name of targeted crop(s)</p> <p>Possible areas addressed</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assessing/monitoring intra-specific diversity in crops <input type="checkbox"/> Increasing intra-specific diversity in crops <input type="checkbox"/> Assessing/monitoring crop diversity in agricultural systems <input type="checkbox"/> Increasing crop diversity in agricultural systems <p>Reference link:reftab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
36. Number of new crops and/or wild species introduced into cultivation	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>10.2 Enter in the table below any new crop and/or wild species introduced into cultivation⁴³ during the reporting period. Optionally, also indicate the main cultivation area(s). [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Name of the new crop</p> <p>Name of taxon link:taxtab</p> <p>Name of the main cultivation area(s) link:aretab</p>			

⁴² Question 11.1 in Annex 2 of CGRFA-10/04/Inf.5.

⁴³ New crops refer to crops which have been introduced from abroad. Wild species introduced into cultivation refers to newly domesticated crops.

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
37. Existence of national policies that promote development and commercialization of farmers' varieties/landraces and underutilized species	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>11.1 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]</p> <p>COLUMN DESCRIPTION</p> <p>Policy/legal framework (including strategies) reference link:reftab</p> <p>Year of publication link:reftab</p> <p>Topic promoted</p> <ul style="list-style-type: none"> <input type="checkbox"/> Development and commercialization of farmers' varieties/landraces <input type="checkbox"/> Development and commercialization of underutilized species 			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
38. Number of programmes/projects/activities promoting development and commercialization of all varieties, primarily farmers' varieties/landraces and underutilized species	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>11.2 Enter in the table below any programme/project/activity carried out during the reporting period promoting development and commercialization of all varieties, primarily farmers' varieties/landraces and underutilized crops or species, indicating the targeted taxon and crop. Optionally, also indicate references, geographical areas and topics covered. [SH]⁴⁴</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity link:protab</p> <p>Starting date (YYYY/MM) link:protab</p> <p>Ending date (YYYY/MM) link:protab</p> <p>Target</p> <ul style="list-style-type: none"> <input type="checkbox"/> All varieties <input type="checkbox"/> Farmers' varieties/landraces <input type="checkbox"/> Underutilized crops or species <p>Name of taxon link:taxtab</p> <p>Name of crop</p> <p>Reference link:reftab</p> <p>Areas of interest link:aretab</p> <p>Topics covered</p> <ul style="list-style-type: none"> <input type="checkbox"/> Research <input type="checkbox"/> Crop improvement <input type="checkbox"/> Seed distribution <input type="checkbox"/> Improving processing <input type="checkbox"/> Market development <input type="checkbox"/> Public awareness <input type="checkbox"/> Policy changes <p>Other project topics</p>			

⁴⁴ Question 12.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
39. Number of farmers' varieties/landraces and underutilized species with potential for commercialization identified	YES/NO	YES/NO	1-9
<p>QUESTIONS</p> <p>11.3 Enter in the table below, for each relevant taxon or crop, the number of farmers' varieties/landraces with potential for commercialization identified during the reporting period. Optionally, also indicate references. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Name of taxon link:taxtab</p> <p>Name of crop</p> <p>Number of farmers' varieties/landraces with potential for commercialization identified</p> <p>Reference(s) link:reftab</p> <p>11.4 Enter in the table below the underutilized species with potential for commercialization identified during the reporting period. Optionally rank them in terms of priority and detail the progress achieved so far toward their development and sustainable use in the country. [NFP]⁴⁵</p> <p>COLUMN DESCRIPTION</p> <p>Name of taxon link:taxtab</p> <p>Name of crop</p> <p>Priority for the country</p> <ul style="list-style-type: none"> • Low • Low-medium • Medium • Medium-high • High <p>Geographical distribution mapping</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Characterization/evaluation</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Crop improvement</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Post harvest processing</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Marketing</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Multiplication of seed/planting material</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Documentation in information systems</p> <ul style="list-style-type: none"> • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed <p>Reference(s) link:reftab</p>			

⁴⁵ Question 12.1 in Annex 2 of CGRFA-10/04/Inf.5.

PRIORITY ACTIVITY 12: Supporting seed production and distribution

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
40. Number of new varieties released	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>12.1 Enter in the table below all varieties released during the reporting period, specifying crop and year of release. Optionally, also indicate for each variety, the year of registration (when apply), type, origin, target agro-ecological environment(s) and important characteristics. [NFP]⁴⁶</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop</p> <p>Name of cultivar link:cultab</p> <p>Year of release</p> <p>Year of registration</p> <p>Type</p> <ul style="list-style-type: none"> • Farmers' variety/landrace • Improved variety <p>Origin</p> <ul style="list-style-type: none"> • National • Introduced from abroad <p>Target agro-ecological environment(s)</p> <p>Important characteristics</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
41. Number of formal/registered seed enterprises	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>12.2 Enter in the table below the most updated number of formal/registered seed enterprises in the country, specifying the year of the information. Optionally, also indicate the source of the information. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of formal/registered seed enterprises</p> <p>Year of information</p> <p>Reference link:retab</p>			

⁴⁶ Question 13.7 in Annex 2 of CGRFA-10/04/Inf.5 - partially simplified.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
42. The least number of varieties that together account for 80% of the total area for each of the five most widely cultivated crops	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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 least number of varieties that together account for 80% of the total crop area. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Year</p> <p>Name of crop</p> <p>The least number of varieties in 80% of the total crop area</p> <p>Total crop area</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
43. Percentage of area supplied with seed meeting the quality standard of the formal seed sector for the five most widely cultivated crops	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>12.4 Enter in the table below, for each of the five most widely cultivated annual 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 seed production meeting the quality standard of the formal seed sector and the average sowing rate. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Year</p> <p>Name of annual crop</p> <p>Total crop harvested area (ha)</p> <p>Seed imports in the previous year (tonnes)</p> <p>Seed exports in the previous year (tonnes)</p> <p>Seed production meeting the quality standard of the formal seed sector in the previous year (tonnes)</p> <p>Average sowing rate (kg/ha)</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
44. Existence of a national seed policy and seed laws	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>12.5 Enter in the table below reference(s) to the national seed policy(ies) and to the seed law(s). [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Seed policy/law reference link:reftab</p> <p>Year of publication link:reftab</p>			

PRIORITY ACTIVITY 13: Building and strengthening national programmes

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
45. Existence of a national entity (agency, committee, etc.) functioning as a coordination mechanism for PGRFA activities and/or strategies	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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, and the year of its establishment. Optionally, also indicate if it governs other genetic resources, its objectives, the categories of stakeholders represented and the frequency of meetings. [NFP]⁴⁷</p> <p>COLUMN DESCRIPTION</p> <p>Name of entity link:instab</p> <p>Year of establishment</p> <p>Year of latest restructuring</p> <p>Additional mandate</p> <ul style="list-style-type: none"> <input type="checkbox"/> Forest genetic resources <input type="checkbox"/> Animal genetic resources <input type="checkbox"/> Aquatic genetic resources <input type="checkbox"/> Micro-organism and invertebrate genetic resources <p>Description of objectives</p> <p>Frequency of meetings</p> <ul style="list-style-type: none"> • Quarterly during a year • Twice a year • Annual • Every two years • Every three years • Irregular • Other <p>Date of last meeting (YYYY/MM)</p> <p>Participating partners</p> <ul style="list-style-type: none"> <input type="checkbox"/> Breeders <input type="checkbox"/> Farmers <input type="checkbox"/> Private sector <input type="checkbox"/> Non Governmental Organizations <input type="checkbox"/> Universities <input type="checkbox"/> National genebanks <input type="checkbox"/> Community organizations <input type="checkbox"/> Ministry of Agriculture <input type="checkbox"/> Ministry of Environment <input type="checkbox"/> Ministry of Fisheries <p>Other participating partners</p>			

⁴⁷ Question 15.1 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
46. Existence of a formally appointed national focal point or coordinator for PGRFA	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>13.2 Enter in the table below title, position, name and email address of the National Focal Point or coordinator for PGRFA officially appointed and date of appointment. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Name of Focal Point/Coordinator link:pertab</p> <p>Title link:pertab</p> <p>Position link:pertab</p> <p>Email address link:pertab</p> <p>Date of appointment (YYYY/MM)</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
47. Existence of a governmental policy framework and strategies for PGRFA conservation and use	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>13.3 Enter in the table below any governmental policy framework and strategy for PGRFA conservation and use in place. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Policy framework and strategy reference link:reftab</p> <p>Year of publication link:reftab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
48. Existence of a national information sharing mechanism for PGRFA	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>13.4 Enter in the table below any national information sharing mechanism for PGRFA in place and the year of its publication. Optionally, also indicate the number of contributing stakeholders. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Reference link:reftab</p> <p>Year of publication link:reftab</p> <p>Number of contributing stakeholders</p>			

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
49. Membership to a regional PGRFA network	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>14.1 Enter in the table below PGRFA regional networks that the country is a member of. [NFP]⁴⁸</p> <p>COLUMN DESCRIPTION</p> <p>Name of network link:instab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
50. Number of crop improvement networks in which national stakeholders are members	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>14.2 Enter in the table below the crop improvement networks in which national stakeholders are members. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Name of network link:instab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
51. Number of publications produced by national stakeholders within the framework of networks	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>14.3 Enter in the table below any publication produced by your organization during the reporting period within the framework of PGRFA networks. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Reference link:reftab</p>			

⁴⁸ Question 16.1 in Annex 2 of CGRFA-10/04/Inf.5.

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
52. Number of crop wild relatives conserved <i>in situ</i> and documented in a publicly available information system	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>15.1 Enter in the table below the number of crop wild relatives conserved <i>in situ</i> and documented in a publicly available information system, specifying the name and internet address of the information system. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of crop wild relatives</p> <p>Information system link:systab</p> <p>System web address link:systab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
53. Number of farmers' varieties/landraces cultivated on-farm and documented in a publicly available information system	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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 percentage of them with published description and geographic distribution data, and the name and internet address of the information system. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of farmers' varieties/landraces</p> <p>Percentage of farmers' varieties/landraces with morphological description</p> <p>Percentage of farmers' varieties/landraces with agronomic description</p> <p>Percentage of farmers' varieties/landraces with geographic distribution data</p> <p>Information system link:systab</p> <p>System web address link:systab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
54. Number of accessions from <i>ex situ</i> collections documented in a publicly available information system	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>15.3 Enter in the table below the number of accessions from <i>ex situ</i> collections which are documented in a publicly available information system, specifying the name and internet address of the information system. Optionally, also indicate the percentage of accession with published characterization and evaluation data. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Holding institute code⁴⁹ link:instab</p> <p>Number of accessions documented⁵⁰</p> <p>Percentage of accessions with characterization data</p> <p>Percentage of accessions with evaluation data</p> <p>Information system link:systab</p> <p>System web address link:systab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
55. Number of released varieties documented in a publicly available information system	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>15.4 Enter in the table below the number of varieties released and documented in a publicly available information system, specifying the name and internet address of the information system. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of released varieties</p> <p>Published information includes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Pedigree <input type="checkbox"/> Agronomic description <input type="checkbox"/> Seed source <p>Information system link:systab</p> <p>System web address link:systab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
56. Participation in publicly accessible, international/regional PGRFA information systems	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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]</p> <p>COLUMN DESCRIPTION</p> <p>International/regional information system link:systab</p> <p>Frequency of updates</p> <ul style="list-style-type: none"> • Daily • Monthly • Annually • Every two years • Every three years or more 			

⁴⁹ It corresponds to descriptor 1 (INSTCODE) of FAO/Bioversity MCPD V.2

⁵⁰ Equal to or less than the number of records under question 6.2 for the same gene bank

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
57. Existence of national systems to monitor and safeguard genetic diversity and minimize genetic erosion	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>16.1 Enter in the table below any national system in place to monitor and safeguard genetic diversity and minimize genetic erosion. Optionally, also indicate the number of contributing stakeholders. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>System reference link:reftab</p> <p>Year of publication link:reftab</p> <p>Number of contributing stakeholders</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
58. Number of remedial actions resulting from the existing national systems to monitor and safeguard genetic diversity and minimize genetic erosion	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>16.2 Enter in the table below any action undertaken during the reporting period to correct or improve genetic diversity and minimize genetic erosion which has taken advantage of and/or relied on data/analysis from the existing national systems to monitor and safeguard genetic diversity and minimize genetic erosion. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Remedial action link:protab</p> <p>Starting date (YYYY/MM) link:protab</p> <p>Ending date (YYYY/MM) link:protab</p>			

PRIORITY ACTIVITY 17: Building and strengthening human resource capacity

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
59. Existence of post-graduate, graduate and secondary educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>17.1 Indicate in the table below the availability in your country during the reporting period of post-graduate, graduate and secondary educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Exist at post-graduate level <input type="checkbox"/> Exist at graduate level <input type="checkbox"/> Exist at secondary school level 			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
60. Percentage of staff whose skills in conserving and using PGRFA have been upgraded	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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 during the reporting period. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Total number of PGRFA professionals⁵¹</p> <p>Number of PGRFA professionals who completed a PhD programme</p> <p>Number of PGRFA professionals who completed a MSc programme⁵²</p> <p>Number of PGRFA professionals who attended short courses and seminars⁵³</p>			

⁵¹ Value in this column cannot be less than the sum of the values in the following three columns.

⁵² To avoid double counting exclude those professionals already counted in the previous column.

⁵³ To avoid double counting exclude those professionals already counted in the previous two columns.

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP
61. Existence of a public awareness programme promoting PGRFA conservation and utilization	YES/NO	YES/NO	1-9
62. Number of stakeholder groups participating in the implementation of the public awareness programme	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>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. Optionally, also indicate programmes/projects/activities on PGRFA conservation and sustainable use that were initiated during the reporting period and were originated as a result of the public awareness programme. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>A PGRFA public awareness programme • Exists • Does not exist</p> <p>Participating stakeholder groups</p> <ul style="list-style-type: none"> <input type="checkbox"/> National genebanks <input type="checkbox"/> Farmers <input type="checkbox"/> Community organizations <input type="checkbox"/> Non Governmental Organizations <input type="checkbox"/> Plant breeders <input type="checkbox"/> Private seed sector <input type="checkbox"/> Universities <input type="checkbox"/> Ministry of Agriculture <input type="checkbox"/> Ministry of Environment <p>Other participating group(s)</p> <p>Resulting programmes/projects/activities link:protab</p>			

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP
63. Number of types of products developed to raise public awareness	YES/NO	YES/NO	1-9
<p>QUESTION</p> <p>18.2 Indicate in the table below the type of products developed during the reporting period to raise public awareness of the importance of PGRFA. Optionally, also indicate the media used, audience targeted, topics covered and references. [SH]⁵⁴</p> <p>COLUMN DESCRIPTION</p> <p>Products developed</p> <ul style="list-style-type: none"> <input type="checkbox"/> Audio-visual products <input type="checkbox"/> Display panels and posters <input type="checkbox"/> Fact sheets <input type="checkbox"/> Newsletters <input type="checkbox"/> Reports (enter references below) <input type="checkbox"/> Magazines (enter references below) <input type="checkbox"/> WWW pages (enter references below) <input type="checkbox"/> Accessories (t-shirts, caps, bags, etc.) /Gadgets <p>Media used</p> <ul style="list-style-type: none"> <input type="checkbox"/> Press <input type="checkbox"/> Television <input type="checkbox"/> Radio <input type="checkbox"/> Internet <input type="checkbox"/> Diversity fairs <input type="checkbox"/> Conferences <input type="checkbox"/> Educational events <p>Audiences targeted</p> <ul style="list-style-type: none"> <input type="checkbox"/> Policy makers <input type="checkbox"/> Scientists <input type="checkbox"/> Extension agents <input type="checkbox"/> Farmers <input type="checkbox"/> School children <input type="checkbox"/> General public <p>Topics covered</p> <ul style="list-style-type: none"> <input type="checkbox"/> Importance of PGRFA as part of biodiversity <input type="checkbox"/> Farmers' role <input type="checkbox"/> National policy <input type="checkbox"/> Environmental education <p>References link:reftab</p>			

⁵⁴ 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 entities⁵⁵ would be made available to countries through the upgraded information system (please see paragraph 5 in this document).

⁵⁵ 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

WWW address

Latitude (decimal degrees format)

Longitude (decimal degrees format)

Organization authority status

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

Organization role categories

- Genebank (long term collections)
- Genebank (medium term collections)
- Genebank (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

Budget type

• Annual • Total

(continued on next page)

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 *ex situ* conservation
- 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 systems for safeguarding diversity and minimizing erosion of PGRFA
- Building and strengthening human resource capacity
- Promoting and strengthening public awareness of the importance of PGRFA

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
- 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

(continued on next page)

Links to other relevant national information systems

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

WWW address

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****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)**