

March 2013

E



منظمة الأغذية
والزراعة للأمم
المتحدة

联合国
粮食及
农业组织

Food and
Agriculture
Organization
of the
United Nations

Organisation des
Nations Unies
pour
l'alimentation
et l'agriculture

Продовольственная и
сельскохозяйственная
организация
Объединенных
Наций

Organización
de las
Naciones Unidas
para la
Alimentación y la
Agricultura

COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Item 2.2 of the Provisional Agenda

Fourteenth Regular Session

Rome, 15 – 19 April 2013

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

TABLE OF CONTENTS

	Paragraphs
Introduction	1 - 6
<i>Annex I:</i> Draft reporting format.....	
<i>Annex II:</i> Draft reporting format - common tables	

This document is printed in limited numbers to minimize the environmental impact of FAO's processes and contribute to climate neutrality. Delegates and observers are kindly requested to bring their copies to meetings and to avoid asking for additional copies. Most FAO meeting documents are available on the Internet at www.fao.org

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 *Draft 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 proposed in *Appendix I* to the document, *Targets and indicators for plant genetic resources for food and agriculture*.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 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.

5. 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 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 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-14/13/4.1.

² CGRFA-13/11/Report, paragraph 35.

³ CGRFA-10/04/Inf.5.

⁴ CGRFA-14/13/4.1 paragraph 18.

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-14/13/4.1, Appendix I).

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 2004⁵. 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.

⁵ CGRFA-10/04/Inf.5 Annex 2.

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

INDICATORS	APPLICABLE	DATA AVAILABLE
Number of <i>in situ</i> (including on farm) surveys/inventories of PGRFA ⁶ carried out	YES/NO	YES/NO
Number of PGRFA surveyed/inventoried	YES/NO	YES/NO
Percentage of PGRFA threatened out of those surveyed/inventoried ⁷	YES/NO	YES/NO
<p>QUESTION</p> <p>1.1 Enter in the table below any PGRFA survey and inventory⁸, 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]⁹</p> <p>COLUMN DESCRIPTION</p> <p>Title of survey/inventory link:protab</p> <p>Date (YYYY/MM) link:protab</p> <p>Survey/inventory conducted</p> <p>• <i>In situ</i> mainly • On farm mainly • <i>In situ</i> and on farm</p> <p>Name of area surveyed/inventoried link:aretab</p> <p>Reference link:reftab</p> <p>Survey details</p> <p><input type="checkbox"/> Indigenous knowledge used during the survey</p> <p><input type="checkbox"/> Identification of threatened or endangered species relevant to PGRFA</p> <p><input type="checkbox"/> Assessment of threat to genetic diversity in plants relevant to PGRFA</p> <p><input type="checkbox"/> Data entered into a Geographical Information System (GIS)</p> <p>Description of surveying method(s)</p> <p>Crop species surveyed/inventoried¹⁰ link:taxtab</p> <p>Crop varieties surveyed/inventoried link:cultab</p> <p>Crop wild relatives surveyed/inventoried link:taxtab</p> <p>Wild food plants species surveyed/inventoried link:taxtab</p> <p>Threatened crop species identified¹¹ link:taxtab</p> <p>Threatened crop varieties identified link:cultab</p> <p>Threatened crop wild relatives identified link:taxtab</p> <p>Threatened wild food plants species identified link:taxtab</p> <p>Proven causes of threat</p> <p>Presumed causes of threat</p> <p>Description of major findings</p>		

⁶ 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).

⁷ 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.

⁸ carried out during the reporting period with the participation of your organization.

⁹ Question 1.1 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

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

¹¹ Crop species can be omitted if crop varieties are reported.

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

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of farming communities involved in on-farm PGRFA management and improvement activities	YES/NO	YES/NO
<p>QUESTION</p> <p>2.1 Enter in the table below any programme/project/activity¹² addressing on-farm management and improvement of PGRFA , listing local farmer communities and number of farmers involved. [SH]¹³</p> <p>COLUMN DESCRIPTION</p> <p>Name of on-farm management programme/project link:protab</p> <p>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>		

¹² carried out during the reporting period with the participation of your organization.

¹³ Question 2.1 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR	APPLICABLE	DATA AVAILABLE
Percentage of cultivated land under farmers' varieties/landraces in areas of high diversity and/or risk¹⁴	YES/NO	YES/NO
<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. [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>Percentage of cultivated land under farmers' varieties/landraces</p> <p>Year of estimation</p> <p>Reference link:reftab</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of farmers' varieties/landraces delivered from national or local gene banks to farmers (either directly or through intermediaries)¹⁵	YES/NO	YES/NO
<p>QUESTION</p> <p>2.3 Enter in the table below, for each crop or crop group, the number of farmers' varieties/landraces provided¹⁶ by national or local gene banks to farmers (either directly or through intermediaries) [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/ crop group</p> <p>Number of farmers' varieties/landraces delivered to farmers</p> <p>Number of samples of farmers' varieties/landraces delivered to farmers</p>		

¹⁴ Out of the total cultivated land in the same areas.

¹⁵ Also listed in Priority Activity 10: Promoting diversification of crop production and broadening crop diversity for sustainable agriculture.

¹⁶ During the reporting period.

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

INDICATORS	APPLICABLE	DATA AVAILABLE
Number of households that received seeds for planting as an aid after disaster situations	YES/NO	YES/NO
Percentage of seed produced at the local level¹⁷ out of that made available through disaster response interventions	YES/NO	YES/NO
<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 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]¹⁸</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>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>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>Source of germplasm/seed</p> <ul style="list-style-type: none"> • Community seed bank • National gene bank • Regional gene bank • International gene bank • 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 		

¹⁷ Produced in neighbouring areas with similar agro-ecological conditions.

¹⁸ Question 3.7 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of disaster risk management policies for restoring crop systems that include seed security provisions	YES/NO	YES/NO
<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>Title of policy 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
Percentage of national <i>in situ</i> conservation sites with management plans addressing crop wild relatives and wild food plants	YES/NO	YES/NO
<p>QUESTION</p> <p>4.1 Enter in the table below the percentage of national <i>in situ</i> conservation sites that have management plans addressing crop wild relatives and wild food plants. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Percentage of national <i>in situ</i> conservation sites that have management plans addressing crop wild relatives and wild food plants</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of crop wild relatives and wild food plants <i>in situ</i> conservation and management actions with institutional support	YES/NO	YES/NO
<p>QUESTION</p> <p>4.2 Enter in the table below any programme/project/activity¹⁹ on <i>in situ</i> 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]²⁰</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity link:protab</p> <p>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 (CWR) <input type="checkbox"/> Wild Plants for Food Production (WPF) 		

¹⁹ Carried out during the reporting period with the participation of your organization.

²⁰ Question 4.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

<p>Identification criteria</p> <p>Additional topics covered</p> <ul style="list-style-type: none"> <input type="checkbox"/> Implementation of management practices to maintain high level of CWR/WPF 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/WPF
--

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of crop wild relatives and wild food plants species actively²¹ conserved <i>in situ</i>	YES/NO	YES/NO
<p>QUESTION</p> <p>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 <i>in situ</i> in your country, date and any reference to their estimation [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Estimated number of species of crop wild relatives actively conserved <i>in situ</i></p> <p>Date of estimation (YYYY/MM)</p> <p>Estimated number of species of wild food plants actively conserved <i>in situ</i></p> <p>Date of estimation (YYYY/MM)</p> <p>References link:reftab</p>		

²¹ 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

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of a strategy for identification of gaps in national gene bank holdings and for targeted collecting missions to fill identified gaps	YES/NO	YES/NO
Number of crops conserved in the national gene bank(s) that require targeted collecting	YES/NO	YES/NO
<p>QUESTION</p> <p>5.1 Indicate in the table below, for each <i>ex situ</i> 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 crop(s) or taxon/taxa for which a targeted collecting is required, the gaps detected and the methods used to detect the gaps [SH]²²</p> <p>COLUMN DESCRIPTION</p> <p>Name of the <i>ex situ</i> collection link:protab</p> <p>A strategy</p> <p>• Exists for the identification of gaps in the collection and for targeted collecting missions • Does not exist</p> <p>Targeted collecting is required for the following crop(s)</p> <p>Targeted collecting is required for the following taxon/taxa link:taxtab</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 <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>		

²² Question 7.4 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATORS	APPLICABLE	DATA AVAILABLE
Number of targeted collecting missions in the country	YES/NO	YES/NO
Number of accessions resulting from targeted collecting missions in the country	YES/NO	YES/NO
<p>QUESTION</p> <p>5.2 Enter in the table below any collecting mission²³, 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]²⁴</p> <p>COLUMN DESCRIPTION</p> <p>Name of collecting mission link:protab</p> <p>Date (YYYY/MM) link:protab</p> <p>Name of collection area link:aretab</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>		

²³ Carried out during the reporting period with the participation of your organization.

²⁴ Question 7.1 in Annex 2 of CGRFA-10/04/Inf.5.

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

INDICATOR	APPLICABLE	DATA AVAILABLE
Trend in annual capacity for sustaining <i>ex situ</i> collections	YES/NO	YES/NO
<p>QUESTION</p> <p>6.1 Enter (update) in the table below, for each year since 2011, 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
Number of crops conserved <i>ex situ</i> under medium or long-term conditions ²⁵	YES/NO	YES/NO
Number of species conserved <i>ex situ</i> under medium or long-term conditions	YES/NO	YES/NO
Number of accessions conserved <i>ex situ</i> under medium or long-term conditions	YES/NO	YES/NO
Percentage of <i>ex situ</i> accessions safety duplicated	YES/NO	YES/NO
<p>QUESTION</p> <p>6.2 Enter (update) in the table below, for each <i>ex situ</i> collection, held by your organization under medium- or long-term conditions, 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]²⁶</p> <p>COLUMN DESCRIPTION</p> <p>Name of <i>ex situ</i> collection link:protab</p> <p>Name of crop</p> <p>Name of taxon link:taxtab</p> <p>Status of accessions</p> <p>• Wild • Weedy • Traditional cultivar/Landrace • Breeder's line • Mutant/Genetic stock • Advanced/Improved cultivar</p> <p>Geographic origin</p> <p>Number of accessions</p> <p>Number of accessions safety-duplicated at other gene banks</p>		

²⁵ Also listed in Priority Activity 10: Promoting diversification of crop production and broadening crop diversity for sustainable agriculture.

²⁶ Question 5.2 in Annex 2 of CGRFA-10/04/Inf.5.

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

INDICATORS	APPLICABLE	DATA AVAILABLE
Percentage of <i>ex situ</i> accessions in need of regeneration for which a budget for regeneration does not exist	YES/NO	YES/NO
Number of <i>ex situ</i> accessions regenerated and/or multiplied	YES/NO	YES/NO
Percentage of <i>ex situ</i> accessions in need of regeneration	YES/NO	YES/NO
<p>QUESTION</p> <p>7.1 Enter in the table below, for each crop held in your <i>ex situ</i> collections, regeneration priority status, number of accessions already regenerated and/or multiplied, number of accessions requiring regeneration, and the percentage of these for which a budget for regeneration exists. [SH]²⁷</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group</p> <p>Regeneration priority status</p> <p>• Priorities not yet set • Priorities are set but no activities have been done • Priorities are set and activities are underway</p> <p>Total number of accessions in the <i>ex situ</i> collection</p> <p>Number of accessions already regenerated and/or multiplied</p> <p>Number of accessions in need of regeneration</p> <p>Number of accessions in need of regeneration for which a budget for regeneration does not exist</p>		

²⁷ 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	APPLICABLE	DATA AVAILABLE
Average number of morphological and eco-geographical traits characterized per accession for the <i>ex situ</i> collections	YES/NO	YES/NO
<p>QUESTIONS</p> <p>8.1 Enter in the table below, for each <i>ex situ</i> 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]</p> <p>COLUMN DESCRIPTION</p> <p>Name of <i>ex situ</i> collection link:protab</p> <p>Name of crop/crop group</p> <p>Name of taxon link:taxtab</p> <p>Number of accessions</p> <p>Average number of morphological traits characterized per accession</p> <p>Standard deviation</p> <p>8.2 Enter in the table below the average number of eco-geographical parameters available for describing the collecting sites of the germplasm conserved in your gene bank and its standard deviation. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Average number of eco-geographical parameters describing collecting sites of germplasm conserved in your gene bank</p> <p>Standard deviation</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of publications on germplasm evaluation and molecular characterization	YES/NO	YES/NO
<p>QUESTION</p> <p>8.3 Enter in the table below the number of publications²⁸ 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. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Number of publications on characterization based on molecular markers References link:reftab</p> <p>Number of publications on evaluation of agronomic traits References link:reftab</p> <p>Number of publications on evaluation of biochemical traits References link:reftab</p> <p>Number of publications on evaluation of abiotic stresses References link:reftab</p> <p>Number of publications on evaluation of biotic stresses References link:reftab</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of trait-specific collection subsets published	YES/NO	YES/NO
<p>QUESTION</p> <p>8.4 Enter in the table below, for each <i>ex situ</i> collection and taxon or crop/crop group, the number of trait-specific collection subsets published. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Name of <i>ex situ</i> collection link:protab</p> <p>Name of crop/crop group</p> <p>Name of taxon link:taxtab</p> <p>Number of trait-specific collection subsets published References link:reftab</p>		

²⁸ Produced during the reporting period with the participation of your organization.

INDICATORS	APPLICABLE	DATA AVAILABLE
Number of accessions distributed by gene banks to users of germplasm	YES/NO	YES/NO
Number of samples distributed by gene banks to users of germplasm	YES/NO	YES/NO
<p>QUESTION</p> <p>8.5 Enter in the table below, for each <i>ex situ</i> 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]</p> <p>COLUMN DESCRIPTION</p> <p>Name of <i>ex situ</i> collection link:protab</p> <p>Name of taxon link:taxtab</p> <p>Name of crop/crop group</p> <p>Number of accessions distributed to National Agricultural Research Centres</p> <p>Number of samples distributed to National Agricultural Research Centres</p> <p>Number of accessions distributed to the private sector</p> <p>Number of samples distributed to the private sector</p> <p>Number of accessions distributed to farmers or NGOs</p> <p>Number of samples distributed to farmers or NGOs</p> <p>Number of accessions distributed to others (national)</p> <p>Number of samples distributed to others (national)</p> <p>Number of accessions distributed to foreign stakeholders</p> <p>Number of samples distributed to foreign stakeholders</p>		

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

INDICATORS	APPLICABLE	DATA AVAILABLE
Number of crops with active public pre-breeding and breeding programmes	YES/NO	YES/NO
Number of crops with active private pre-breeding and breeding programmes	YES/NO	YES/NO
Number of breeding activities oriented to small scale farmers, villages or traditional communities	YES/NO	YES/NO
<p>QUESTIONS</p> <p>9.1 Enter in the table below, for each active public and/or private crop breeding programme²⁹, 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 beneficiaries, the number of professional staff involved, output(s) achieved so far and year of achievement. [SH]³⁰</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity link:protab</p> <p>Sector • Public • Private • Public and private</p> <p>Name of crop</p> <p>Name of taxon link:taxtab</p> <p>Trait(s)/characteristic(s) addressed</p> <p>Agroecological zone(s)/Farming system(s) (the improvement applies to)</p> <p>Estimated importance of the improvement in terms of food security for the specified agroecological zone/farming system • Limited • Medium • High</p> <p>Germplasm source(s)</p> <p><input type="checkbox"/> Local gene bank <input type="checkbox"/> National gene bank <input type="checkbox"/> Regional/International network <input type="checkbox"/> CGIAR gene bank <input type="checkbox"/> Public organization from developed country <input type="checkbox"/> Public organization from developing country <input type="checkbox"/> Private sector</p> <p>Participatory breeding involved farmers in:</p> <p><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</p> <p>Breeding activities oriented to</p> <p><input type="checkbox"/> Small scale farmers <input type="checkbox"/> Villages or traditional communities</p> <p>Number of professional staff involved</p> <p>Output produced</p> <p>Year of output production</p>		

²⁹ Carried out during the reporting period with the participation of your organization.

³⁰ Question 10.2 in Annex 2 of CGRFA-10/04/Inf.5.

9.2 Enter in the table below any active public and/or private genetic enhancement (including base-broadening) programme/project/activity³¹ 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]³²

COLUMN DESCRIPTION

Name of programme/project/activity link:protab

Sector

- Public • Private • Public and private

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

³¹ Carried out during the reporting period with the participation of your organization.

³² Question 10.3 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATORS	APPLICABLE	DATA AVAILABLE
Number of active public crop breeders	YES/NO	YES/NO
Number of active private crop breeders	YES/NO	YES/NO
<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 and specify the source and year of 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>Reference link:reftab</p> <p>Year of information</p>		

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

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of programmes/projects/activities to increase genetic heterogeneity of crop species and diversity within the agro-ecosystem	YES/NO	YES/NO
<p>QUESTION</p> <p>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</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity link:protab</p> <p>Name of crop</p> <p>Name of taxon link:taxtab</p> <p>Topics covered</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 diversity in agricultural systems <input type="checkbox"/> Increasing diversity in agricultural systems <input type="checkbox"/> Participatory diversity methods applied <p>Reference link:reftab</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of new crops and/or wild species introduced into cultivation	YES/NO	YES/NO
<p>QUESTION</p> <p>10.2 Enter in the table below any new crop and/or wild species introduced into cultivation³⁵ specifying 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>		

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.

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

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of programmes/projects/activities promoting development and commercialization of all varieties, primarily farmers' varieties/landraces and underutilized species	YES/NO	YES/NO
<p>QUESTION</p> <p>11.1 Enter in the table below any programme/project/activity³⁶ 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]³⁷</p> <p>COLUMN DESCRIPTION</p> <p>Name of programme/project/activity 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>		

³⁶ Carried out during the reporting period with the participation of your organization.

³⁷ Question 12.2 in Annex 2 of CGRFA-10/04/Inf.5 - partially modified.

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of farmers' varieties/landraces and underutilized species with potential for commercialization identified	YES/NO	YES/NO
<p>QUESTIONS</p> <p>11.2 Enter in the table below, for each relevant taxon or crop, the number of farmers' varieties/landraces with potential for commercialization identified. [SH]</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>11.3 Enter in the table below the underutilized species with potential for commercialization identified, rank them in terms of priority and detail the progress achieved so far toward their development and sustainable use in the country. [NFP]³⁸</p> <p>Name of taxon link:taxtab</p> <p>Name of crop</p> <p>Priority for the country • Low • Low-medium • Medium • Medium-high • High</p> <p>Geographical distribution mapping • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p> <p>Characterization/evaluation • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p> <p>Crop improvement • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p> <p>Post harvest processing • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p> <p>Marketing • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p> <p>Multiplication of seed/planting material • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p> <p>Documentation in information systems • No activity planned • Activities planned but not initiated • Some on-going activities • Activities well advanced • Activities completed</p>		

³⁸ Question 12.1 in Annex 2 of CGRFA-10/04/Inf.5.

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of national policies that promote development and commercialization of farmers' varieties/landraces and underutilized species	YES/NO	YES/NO
<p>QUESTION</p> <p>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]</p> <p>COLUMN DESCRIPTION</p> <p>Policy/legal framework (including strategies) 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 		

PRIORITY ACTIVITY 12: Supporting seed production and distribution

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of new varieties released ³⁹	YES/NO	YES/NO
<p>QUESTION</p> <p>12.1 Enter in the table below all varieties released⁴⁰, specifying type, origin, year of registration (when apply) and release, target agro-ecological environment(s) and important characteristics. [NFP]⁴¹</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop</p> <p>Name of cultivar link:cultab</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>Year of registration</p> <p>Year of release</p> <p>Target agro-ecological environment(s)</p> <p>Important characteristics</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of formal/registered seed enterprises	YES/NO	YES/NO
<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 source and year of information. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of formal/registered seed enterprises</p> <p>Reference link:retab</p> <p>Year of information</p>		

³⁹ Also listed in Priority Activity 9: Supporting plant breeding, genetic enhancement and base-broadening efforts.

⁴⁰ During the reporting period.

⁴¹ Question 13.7 in Annex 2 of CGRFA-10/04/Inf.5 - partially simplified.

INDICATOR	APPLICABLE	DATA AVAILABLE
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
<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>		

INDICATOR	APPLICABLE	DATA AVAILABLE
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
<p>QUESTION</p> <p>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 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 crop</p> <p>Total harvested area (ha)</p> <p>Seed imports (tonnes)</p> <p>Seed exports (tonnes)</p> <p>Seed production meeting the quality standard of the formal seed sector (tonnes)</p> <p>Average sowing rate (kg/ha)</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of a national seed policy and seed laws	YES/NO	YES/NO
<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>Reference link:reftab</p> <p>Year of publication link:reftab</p>		

PRIORITY ACTIVITY 13: Building and strengthening national programmes

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of a national entity (agency, committee, etc.) functioning as a coordination mechanism for PGRFA activities and/or strategies	YES/NO	YES/NO
<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, specifying the year of establishment, mandate, the categories of stakeholders represented and the frequency of meetings. [NFP]⁴²</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 <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"/> Plant breeders <input type="checkbox"/> Farmers <input type="checkbox"/> Private sector <input type="checkbox"/> NGOs <input type="checkbox"/> Universities <input type="checkbox"/> National gene banks <input type="checkbox"/> Community organizations <input type="checkbox"/> Ministry of Agriculture <input type="checkbox"/> Ministry of the Environment <p>Other participating partners</p>		

⁴² Question 15.1 in Annex 2 of CGRFA-10/04/Inf.5.

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

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of a governmental policy framework and strategies for PGRFA conservation and use	YES/NO	YES/NO
<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>Reference link:reftab</p> <p>Year of publication link:reftab</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of a national information sharing mechanism for PGRFA	YES/NO	YES/NO
<p>QUESTION</p> <p>13.4 Enter in the table below any national information sharing mechanism for PGRFA in place and 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
Membership to a regional PGRFA network	YES/NO	YES/NO
<p>QUESTION</p> <p>14.1 Enter in the table below PGRFA regional networks that the country is a member of. [NFP]⁴³</p> <p>COLUMN DESCRIPTION</p> <p>Name of network link:instab</p>		

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

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of publications produced by national stakeholders within the framework of networks	YES/NO	YES/NO
<p>QUESTION</p> <p>14.3 Enter in the table below any publication produced⁴⁴ within the framework of networks. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Reference link:instab</p>		

⁴³ Question 16.1 in Annex 2 of CGRFA-10/04/Inf.5.

⁴⁴ 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	APPLICABLE	DATA AVAILABLE
Number of crop wild relatives conserved <i>in situ</i> and documented in a publicly available information system	YES/NO	YES/NO
<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 number of sites in which they are conserved and the name and address of the information system. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of crop wild relatives</p> <p>Number of conservation sites</p> <p>Information system link:systab</p> <p>System web address link:systab</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of farmers' varieties/landraces cultivated on-farm and documented in a publicly available information system	YES/NO	YES/NO
<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 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
Number of accessions from <i>ex situ</i> collections documented in a publicly available information system	YES/NO	YES/NO
<p>QUESTION</p> <p>15.3 Enter in the table below the number of accessions from <i>ex situ</i> collections held by your organization and documented in a publicly available information system, specifying the percentage of them with published characterization and evaluation data, and the name and address of the information system. [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Name of <i>ex situ</i> collection link:protab</p> <p>Number of accessions documented</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
Number of released varieties documented in a publicly available information system	YES/NO	YES/NO
<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 address of the information system. [NFP]</p> <p>COLUMN DESCRIPTION</p> <p>Number of released varieties</p> <p>Published information includes</p> <p><input type="checkbox"/> Pedigree</p> <p><input type="checkbox"/> Agronomic description</p> <p><input type="checkbox"/> Seed source</p> <p>Information system link:systab</p> <p>System web address link:systab</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Participation in publicly accessible, international/regional PGRFA information systems	YES/NO	YES/NO
<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> <p>• Daily • Monthly • Annually • Every two years or more</p>		

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
Existence of national systems to monitor and safeguard genetic diversity and minimize genetic erosion	YES/NO	YES/NO
<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 and 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>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of remedial actions resulting from the existing national systems to monitor and safeguard genetic diversity and minimize genetic erosion	YES/NO	YES/NO
<p>QUESTION</p> <p>16.2 Enter in the table below any remedial action⁴⁵ resulting 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>		

⁴⁵ Carried out during the reporting period.

PRIORITY ACTIVITY 17: Building and strengthening human resource capacity

INDICATOR	APPLICABLE	DATA AVAILABLE
Existence of post-graduate, graduate and secondary educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use	YES/NO	YES/NO
<p>QUESTION</p> <p>17.1 Indicate in the table below the availability in your country⁴⁶ 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
Percentage of staff whose skills in conserving and using PGRFA have been upgraded	YES/NO	YES/NO
<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.⁴⁷ [SH]</p> <p>COLUMN DESCRIPTION</p> <p>Total number of PGRFA professionals</p> <p>Number of PGRFA professionals who completed a PhD programme</p> <p>Number of PGRFA professionals who completed a MSc programme</p> <p>Number of PGRFA professionals who attended short courses and seminars</p>		

⁴⁶ During the reporting period.

⁴⁷ During the reporting period.

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

INDICATORS	APPLICABLE	DATA AVAILABLE
Existence of a public awareness programme promoting PGRFA conservation and utilization	YES/NO	YES/NO
Number of stakeholder groups participating in the implementation of the public awareness programme	YES/NO	YES/NO
<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.[NFP]</p> <p>COLUMN DESCRIPTION</p> <p>A PGRFA public awareness programme</p> <p>• Exist • Does not exist</p> <p>Name of PGRFA public awareness programme link: protab</p> <p>Participating stakeholder groups</p> <ul style="list-style-type: none"> <input type="checkbox"/> National gene banks <input type="checkbox"/> Farmers <input type="checkbox"/> Community organizations <input type="checkbox"/> NGOs <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 groups</p>		

INDICATOR	APPLICABLE	DATA AVAILABLE
Number of types of products developed to raise public awareness	YES/NO	YES/NO
<p>QUESTION</p> <p>18.2 Indicate in the table below the type of products developed⁴⁸, media used, audience targeted and topics covered in creating awareness on the value of PGRFA. [SH]⁴⁹</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>Reference link:reftab</p>		

⁴⁸ During the reporting period by your organization.

⁴⁹ Question 20.6 in Annex 2 of CGRFA-10/04/Inf.5.

ANNEX II

DRAFT 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 entities⁵⁰ would be made available to countries through the upgraded information system (please see paragraph 5 in this document

⁵⁰ 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

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 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
- Sustaining existing *ex situ* collections
- Regenerating threatened *ex situ* collections
- Supporting planned and targeted collecting of PGRFA

(continued on next page)

- 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****Number**

(continued on next page)

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)