



Food and Agriculture
Organization of the
United Nations

COMMISSION ON
GENETIC RESOURCES
FOR FOOD AND
AGRICULTURE



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



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 (Commission).
2. At its Fourteenth Regular Session, the Commission adopted 63 indicators for monitoring the implementation of the Second GPA.¹ It requested FAO to finalize a reporting format in order to apply the indicators and, based on the reporting experience and their usefulness, to revise them at a later stage.² The Reporting Format for monitoring the implementation of the Second GPA (Reporting Format) was made available at the Fifteenth Regular Session of the Commission³ and National Focal Points (NFPs) were invited to report to FAO through the WIEWS on-line reporting tool, which reflects the specifications given in the Reporting Format.
3. By the time the Commission met for its Sixteenth Regular Session, 43 countries had reported on their implementation of the Second GPA. Considering the need for a greater number of country reports in order to have a more comprehensive picture of the implementation of the Second GPA, the Commission decided to extend the deadline for reporting to 31 December 2017 and requested FAO to consult Commission Members and observers on options for simplifying the Reporting Format and to prepare a proposal for review by the Intergovernmental Technical Working on Plant Genetic Resources for Food and Agriculture (Working Group).⁴ As of February 2018, 71 countries had reported on the implementation of the Second GPA through the WIEWS on-line reporting tool.
4. In line with the Commission's request, Commission Members and observers were invited to provide comments on the Reporting Format and the on-line reporting tool, as well as suggestions for their simplification. An expert workshop on *Reporting on the State of Plant Genetic Resources* was organized by FAO in November 2017 to gather additional inputs from NFPs, stakeholders and technical experts
5. This document provides the new *Reporting Format for Monitoring the Implementation of the Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture* (Reporting Format), as reviewed and revised by the Working Group at its Ninth Session,⁵ and endorsed by the Commission at its Seventeenth Regular Session in February 2019.
6. The Reporting Format will serve countries to report on the implementation of the Second GPA during the next reporting cycle, which will cover the period July 2014 to December 2019. As agreed by the Commission, the report should take place in 2020.
7. In preparing the new Reporting Format, FAO took into consideration:
 - previous work, including the reporting format adopted by the Commission in 2004,⁶ and the experience gained in monitoring the implementation of the first GPA;
 - the experience gained in monitoring the implementation of the Second GPA by using the original Reporting Format; and
 - the need to maintain some continuity in reporting on the implementation of action taken for the conservation and sustainable use of PGRFA through a country-led participatory process.
8. The Reporting Format as presented in this document will be made available through the WIEWS on-line reporting tool together with a comprehensive list of frequently asked questions to assist countries in reporting on the implementation of the Second GPA.

¹ CGRFA-14/13/Report, paragraph 23 and Appendix C.

² CGRFA-14/13/Report, paragraphs 23-24.

³ CGRFA-15/15/Inf.9

⁴ CGRFA-16/17/Report, paragraph 56.

⁵ CGRFA-17/19/9.1, paragraph 29.

9. The Reporting Format guides NFPs in the assessment of progress in the conservation and sustainable use of plant genetic resources for food and agriculture (PGRFA). In addition, the Reporting Format may be used by the NFPs to gather valuable information from other stakeholders.

10. The Reporting Format consists of 48 questions covering 58 indicators for monitoring the implementation of 18 Priority Activities of the Second GPA, taking into consideration the availability and accessibility of data. The reduction of 6 percent in the number of questions and 8 percent in the number of indicators compared to its former version will simplify the reporting task by NFPs without affecting the overall quality and depth of the resulting assessment of the status of PGRFA. It acknowledges other existing data sources applying international standards and makes provision for them to be incorporated without additional workload.

11. The provision of information on the implementation of the Second GPA according to this Reporting Format constitutes a significant part of the countries' contribution to the preparation of *The Third Report on the State of the World's Plant Genetic Resources for Food and Agriculture*, as agreed by the Commission at its Seventeenth Regular Session in February 2019.⁷

⁷ CGRFA-16/17/Report, paragraph 69.

ANNEX I

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

The Reporting Format will serve countries to report on the implementation of the Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture (Second GPA) occurred during July 2014 through December 2019.

The Reporting Format lists 58 indicators for monitoring the implementation of the 18 Priority Activities of the Second Global Plan of Action for Plant Genetic Resources for Food and Agriculture (Second GPA) and 48 questions requesting information necessary for the elaboration of the indicators.

National Focal Points (NFPs) are requested to report whether an indicator is applicable, and if so, whether relevant data are available. In addition, in line with the three proposed higher-order composite indices for PGRFA,⁸ NFPs are invited to provide an expert judgment on the level of achievement for each indicator, referred to as the 'NFP Rating', on a scale from 1 to 8, where 1 is the "lowest degree of implementation or achievement" and 8 is the "highest degree of implementation or achievement". Comments should also be provided to explain the rating submitted and provide additional information or clarifications.

Answers to the questions should be reported in tables whose structure (columns) is described after each question. Columns required for addressing the indicator(s) are displayed with a grey background. Some of the columns in the tables allow links to one of the five common tables referred to throughout 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 of this document. They provide a structured scheme for reporting complementary information which, although not required for the application of the indicators, will be useful for analyses and for building a knowledge base on the implementation of the Second GPA.

Changes with respect to the Reporting Format used to monitor the implementation of the Second GPA undertaken during January 2012 and June 2014 include the adjustment of the NFP Rating to a scale of 1-8 (as opposed to 1-9 in the original Reporting Format). Other revisions include:

- i. A text box for each indicator to allow NFPs to provide a brief explanation of the rating;
- ii. All links to the common tables of the questions are now optional;
- iii. Links to four common tables, namely the Agreements, the Areas, the Cultivars and the Information systems tables, have been removed, together with their description in Annex II;
- iv. The symbols ❶ and ❷ identify columns for which at least one column requires information.

The Revised Reporting Format, as agreed by the Commission, will be made available to NFPs through the WIEWS on-line reporting tool. Furthermore, the on-line tool will include detailed explanations through a comprehensive list of frequently asked questions (FAQs) which have been gathered from users and experts.

NFPs should consult with other stakeholders, including non-governmental organizations and the private sector, in considering their responses especially for questions flagged with "(SH)".

⁸ CGRFA-15/15/4.1 <http://www.fao.org/3/a-mm172e.pdf>

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
2. Number of PGRFA (species/varieties) surveyed/inventoried	YES/NO	YES/NO	1-8	
3. Percentage of PGRFA (species/varieties) threatened⁹ out of those surveyed/inventoried	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>1.2 Indicate the species (taxon name) of crops, crop wild relatives and wild food plants surveyed/inventoried <i>in situ</i> (including on farm) during the reporting period and flag the species identified as threatened. For the crop species indicate the number of farmers' varieties/landraces surveyed/inventoried and those that have been identified as threatened.</p> <p>COLUMN DESCRIPTION</p> <p>Species surveyed/inventoried link:taxtab</p> <p>Threatened species</p> <p>• Yes •No</p> <p>Number of farmers' varieties/landraces surveyed/inventoried</p> <p>Number of farmers' varieties/landraces threatened</p>				

⁹ 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	COMMENT BY NFP
4. Number of farmers involved in on-farm PGRFA management and improvement activities	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>2.1 Indicate programmes/projects/activities carried out during the reporting period addressing on-farm management and improvement of PGRFA, and the number of farmers involved. Optionally, indicate the type of activities. (SH)</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>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>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
5. Percentage of cultivated land under farmers' varieties/landraces in areas of high diversity	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>2.2 Indicate the areas of high diversity in the country and, for each crop or crop group, the estimated percentage of cultivated land under farmers' varieties/landraces out of the total cultivated land at the end or most recent year of the reporting period. Optionally, indicate the reference(s) for the estimation.</p> <p>COLUMN DESCRIPTION</p> <p>Name of area of high diversity</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	COMMENT 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	1-8	
<p>QUESTION</p> <p>2.3 Indicate 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).</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group</p> <p>Number of distinct farmers' varieties/landraces delivered to farmers</p>				

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
7. Number of households that received seeds for planting as an aid after disaster situations	YES/NO	YES/NO	1-8	
8. Percentage of seed produced at the local level¹⁰ out of that made available through disaster response interventions	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>3.1 Indicate the name of the area affected by disasters, the type and date of the disaster, the name of the crop or preferably the name of taxon reintroduced, the amount and origin of seed distributed during the reporting period and the number of beneficiary households. Optionally, 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.</p> <p>COLUMN DESCRIPTION</p> <p>Name of disaster area</p> <p>Type of disaster ①</p> <ul style="list-style-type: none"> • Flood • Fire • Typhoon/hurricane • Drought • Civil war • International war • Other (please specify) <p>Other types of disaster ①</p> <p>Date of disaster (YYYY/MM)</p> <p>Name of crop ②</p> <p>Name of taxon link:taxtab ②</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</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 				

¹⁰ Produced in neighbouring areas with similar agro-ecological conditions.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
9. Existence of disaster risk management policies for restoring crop systems that include seed security provisions	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>3.2 Indicate, if by the end of the reporting period any disaster risk management policy for restoring crop systems that include seed security provisions existed. Optionally, list it/them together with the year of publication.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of policy</p> <ul style="list-style-type: none"> • Existed • Did not exist <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	COMMENT 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	1-8	
<p>QUESTION</p> <p>4.1 Indicate the number of national <i>in situ</i> conservation sites and the number of those that had management plans addressing crop wild relatives and wild food plants at the end of the reporting period.</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	COMMENT BY NFP
11. Number of actions with institutional support addressing <i>in situ</i> conservation and management of crop wild relatives and wild food plants	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>4.2 Indicate programmes/projects/activities carried out during the reporting period on <i>in situ</i> conservation and management of crop wild relatives and wild food plants, and the type of supporting institutions. Optionally, indicate the area covered, taxa identified and additional topics addressed. (SH)</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</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>Plant 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 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 populations 				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
12. Number of crop wild relatives and wild food plants species actively¹¹ conserved <i>in situ</i>	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>4.3 Indicate 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 breeding, and of wild food plants species actively conserved <i>in situ</i> in the country and the year of estimation. Optionally, indicate any reference to their estimation.</p> <p>COLUMN DESCRIPTION</p> <p>Plant group</p> <ul style="list-style-type: none"> • Crop Wild Relatives • Wild Food Plants • Crop Wild Relatives and Wild Food Plants <p>Estimated number of species actively conserved <i>in situ</i></p> <p>Year of estimation (YYYY)</p> <p>Reference(s) link:reftab</p>				

¹¹ By “actively conserved” it is meant that the target species are specifically addressed by the management plan of the conservation area.

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT 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	1-8	
14. Number of crops conserved in the national genebank(s) that require targeted collecting	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>5.1 Indicate the crops conserved in the national genebank for which targeted collecting was required at the end of the reporting period and specify if a strategy existed for the identification of gaps in the crop collection and for undertaking targeted collecting missions to fill identified gaps that could not be filled by accessing other national or international genebanks. Optionally, indicate the gaps detected and the methods used to detect them. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Targeted collecting was required for the following crop</p> <p>A strategy</p> <ul style="list-style-type: none"> • Existed for the identification of gaps in the collection • Existed for the identification of gaps and for targeted collecting missions • Did not exist <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>				

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
16. Number of samples resulting from targeted collecting missions in the country	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>5.2 Indicate the number of samples collected during targeted collecting missions carried out in the country during the reporting period, providing the name of taxon. Optionally, indicate the name of the collected crop and the geographical area(s) where the mission took place. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Name of collected crop</p> <p>Name of collected taxon link:taxtab</p> <p>Number of collected samples</p> <p>Name of collecting area(s)</p>				

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
17. Trend in annual capacity for sustaining <i>ex situ</i> collections	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>6.1 Indicate for each year of the reporting period, the capacity of the national genebank(s) in the country in terms of human and financial resources and infrastructure expressed as a percentage of the capacity in 2010.</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	COMMENT BY NFP
19. Number of species conserved <i>ex situ</i> under medium or long-term conditions	YES/NO	YES/NO	1-8	
20. Number of accessions conserved <i>ex situ</i> under medium or long-term conditions (SDG indicator 2.5.1)	YES/NO	YES/NO	1-8	
21. Percentage of <i>ex situ</i> accessions safety duplicated	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>6.2 Indicate the accessions conserved <i>ex situ</i> under medium- or long-term conditions at the end of the reporting period, including the holding institute WIEWS code, accession number, name of taxon, genebank(s) holding safety duplications and type of storage. Optionally, indicate the name of crop, acquisition date, country of origin, biological status, latitude and longitude of collecting site, collecting/acquisition source and status under the Multilateral System of the International Treaty on PGRFA. (SH)</p> <p><u>Note:</u> Question 6.2 provides information for indicator 2.5.1 of the Sustainable Development Goals (SDG). Since 2014 an <i>ad hoc</i> reporting form that substitutes this question has been used by countries to report on an annual basis on the above three indicators including SDG indicator 2.5.1. Countries already publishing <i>ex situ</i> collections data that are compliant with the requirements of indicator 2.5.1 have the alternative option of communicating to FAO the Internet address for downloading the data.</p> <p>COLUMN DESCRIPTION</p> <p>Holding institute code¹²</p> <p>Accession number¹³</p> <p>Name of taxon¹⁴ link:taxtab</p> <p>Name of crop¹⁵</p> <p>Acquisition date (YYYY/MM)¹⁶</p> <p>Country of origin¹⁷</p> <p>Biological status of accession¹⁸</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 duplications¹⁹ link:instab</p> <p>Latitude of collecting site (decimal degrees format)²⁰</p> <p>Longitude of collecting site (decimal degrees format)²¹</p> <p>Collecting/acquisition source²²</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 storage²³</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 System²⁴</p> <p>• Not included • Included</p>				

¹² It corresponds to descriptor 1 (INSTCODE) of FAO/Bioversity Multi-Crop Passport Descriptors (MCPD) V.2.

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

¹⁴ The full taxon name without authority. It corresponds to the concatenation of descriptors 5 (GENUS), 6 (SPECIES) and 8 (SUBTAXA) of FAO/Bioversity MCPD V.2.

¹⁵ It corresponds to descriptor 10 (CROPNAME) of FAO/Bioversity MCPD V.2.

¹⁶ It corresponds to descriptor 12 (ACQDATE) of FAO/Bioversity MCPD V.2.

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

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
24. Percentage of <i>ex situ</i> accessions in need of regeneration for which a budget for regeneration does not exist	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>7.1 Indicate for each crop, crop group or preferably for each taxon 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)²⁵</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group ❶</p> <p>Name of taxon link:taxtab ❷</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>				

¹⁷ It corresponds to descriptor 13 (ORIGCTY) of FAO/Bioversity MCPD V.2.

¹⁸ It corresponds to descriptor 19 (SAMPSTAT) of FAO/Bioversity MCPD V.2.

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

²⁰ It corresponds to descriptor 15.1 (DECLATITUDE) of FAO/Bioversity MCPD V.2.

²¹ It corresponds to descriptor 15.3 (DECLONGITUDE) of FAO/Bioversity MCPD V.2.

²² It corresponds to descriptor 21 (COLLSRC) of FAO/Bioversity MCPD V.2.

²³ It corresponds to descriptor 26 (STORAGE) of FAO/Bioversity MCPD V.2.

²⁴ It corresponds to descriptor 27 (MLSSTAT) of FAO/Bioversity MCPD V.2.

²⁵ 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	COMMENT BY NFP
25. Average number of morphological traits characterized per accession of the <i>ex situ</i> collections	YES/NO	YES/NO	1-8	
<p>QUESTIONS</p> <p>8.1 Indicate the accessions characterized and conserved <i>ex situ</i> under medium- or long-term conditions and the number of morphological traits characterized. (SH) Note: Accessions listed under question 6.2 should also be listed here.</p> <p>COLUMN DESCRIPTION</p> <p> Holding institute code²⁶</p> <p> Accession number²⁷</p> <p> Name of taxon²⁸ link:taxtab</p> <p> Number of morphological traits characterized</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
26. Number of publications on germplasm evaluation and molecular characterization	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>8.2 Indicate 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 the references. (SH)</p> <p>COLUMN DESCRIPTION</p> <p> Number of publications produced by the national genebank(s) ①</p> <p> Number of publications produced by germplasm recipients and reported to the national genebank(s) ①</p> <p> References link:refstab</p>				

²⁶ It corresponds to descriptor 1 (INSTCODE) of FAO/Bioversity Multi-Crop Passport Descriptors (MCPD) V.2

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

²⁸ The full taxon name without authority

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
27. Number of trait-specific collection subsets documented	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>8.3 Indicate for each crop or preferably for each taxon conserved by the national genebank(s), the number of trait-specific collection subsets documented during the reporting period. Optionally, indicate the references. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop ①</p> <p>Name of taxon link:taxtab ①</p> <p>Number of trait-specific collection subsets documented</p> <p>References link:reftab</p>				

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
28. Number of accessions distributed by genebanks to users of germplasm	YES/NO	YES/NO	1-8	
29. Number of samples distributed by genebanks to users of germplasm	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>8.4 Indicate for each crop, crop group or preferably for each taxon, the number of accessions and the number of samples distributed during the reporting period by the national genebank(s). Optionally, indicate the amounts distributed to the different categories of recipients. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop/crop group ①</p> <p>Name of taxon link:taxtab ①</p> <p>Total number of accessions distributed by the national genebank(s)²⁹</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)³⁰</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>				

²⁹ The sum of the amounts in the following six columns may not equal the total reported here.

³⁰ 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	COMMENT BY NFP
30. Number of crops with active public pre-breeding and breeding programmes	YES/NO	YES/NO	1-8	
31. Number of crops with active private pre-breeding and breeding programmes	YES/NO	YES/NO	1-8	
32. Number of breeding activities oriented to small scale farmers, villages or traditional communities and organic farming	YES/NO	YES/NO	1-8	

QUESTIONS

9.1 Indicate taxa that have been used during the reporting period in breeding programmes. Specify whether these programmes were public and/or private and indicate if they were specifically oriented to small scale farmers, communities that use traditional farmers' varieties/landraces, and/or to organic farming. Optionally, indicate the name of crop, 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)

COLUMN DESCRIPTION

Name of taxon link:taxtab

Name of crop

Programme supported by

- Public • Private • Public and private

Breeding activities oriented to

- Small scale farmers
- Villages or communities that use traditional farmers' varieties/landraces
- Organic farming

Trait(s)/characteristic(s) addressed

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

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

- Limited • Medium • High

Germplasm source(s)

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

Participatory breeding involved farmers in:

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

Number of professional staff involved

Output produced

9.2 Indicate taxa that have been targeted by genetic enhancement (including broadening the genetic base) programmes during the reporting period. Specify whether these programmes were public and/or private. Optionally, specify the name of crop, 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)

COLUMN DESCRIPTION

Name of taxon link:taxtab

Name of crop

Programme supported by

• Public • Private • Public and private

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 the country
- Exotic varieties
- Wild relatives

Farmers involvement

- Setting priorities
- Implementing programme

INDICATORS	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
33. Number of active public crop breeders	YES/NO	YES/NO	1-8	
34. Number of active private crop breeders	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>9.3 Indicate the number of active public or private crop breeders for the different crop groups specifying the year of the information.³¹ Optionally, indicate the source of the information.</p> <p>COLUMN DESCRIPTION</p> <p>Crop group ①</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 <input type="checkbox"/> Stimulant plants <input type="checkbox"/> Medicinal, aromatic and spice plants <p>Other crop group ①</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>				

³¹ 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	COMMENT BY NFP
35. Number of programmes/projects/activities to increase inter-specific diversity within crop production systems	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>10.1 Indicate programmes/projects/activities carried out during the reporting period related to the increase of inter-specific diversity within crop production systems, specifying the targeted crop(s) or preferably the taxon/taxa. Optionally, indicate topics covered and any relevant publication. (SH)</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) ①</p> <p>Name of targeted taxon/taxa link:taxtab ①</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 crop diversity in agricultural systems <input type="checkbox"/> Increasing crop diversity in agricultural systems <p>Other topics</p> <p>Reference link:reftab</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
36. Number of new crops, reintroduced crops and domesticated wild species	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>10.2 Indicate the taxon of the new crops introduced from abroad, of wild species domesticated and of crops reintroduced which were sourced from a genebank, during the reporting period. Optionally, indicate the name of the crop and the main cultivation area(s).</p> <p>COLUMN DESCRIPTION</p> <p>Name of crop</p> <p>Name of taxon link:taxtab</p> <p>Source of diversification</p> <ul style="list-style-type: none"> • New introduced crop • Reintroduced crop • Wild species domesticated <p>Name of the main cultivation area(s)</p>				

PRIORITY ACTIVITY 11: Promoting development and commercialization of all varieties, primarily farmers’ varieties/landraces and underutilized species³²

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
37. Existence of national policies that promote development and commercialization of farmers’ varieties/landraces and underutilized species	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>11.1 Indicate, if by the end of the reporting period any national policy/legal framework (including strategies) to promote the development and commercialization of farmers’ varieties/landraces and underutilized species existed. Optionally list it/them together with the year of publication and the topic promoted.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of policy</p> <p>• Existed • Did not exist</p> <p>Policy/legal framework (including strategies) reference link:reftab</p> <p>Year of publication link:reftab</p> <p>Topic promoted</p> <p><input type="checkbox"/> Development and commercialization of farmers’ varieties/landraces</p> <p><input type="checkbox"/> Development and commercialization of underutilized species</p>				

³² Indicators of this Priority Activity focus on farmers’ varieties/landraces and underutilized species. Indicator 40 of Priority Activity 12 and its associated question 12.1 focus on all varieties.

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
38. Number of programmes/projects/activities promoting development and commercialization of farmers' varieties/landraces and underutilized species	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>11.2 Indicate programmes/projects/activities carried out during the reporting period promoting development and commercialization of farmers' varieties/landraces and underutilized crops or species, indicating the targeted taxon and crop. Optionally, indicate the name of crop, references, geographical areas and topics covered. (SH)</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</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 topics</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
39. Number of farmers' varieties/landraces and underutilized species with potential for commercialization identified	YES/NO	YES/NO	1-8	
<p>QUESTIONS</p> <p>11.3 Indicate for each relevant taxon, the number of farmers' varieties/landraces with potential for commercialization identified during the reporting period. Optionally, indicate the crop name and the references.</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 Indicate the underutilized species with potential for commercialization identified during the reporting period. Optionally indicate the name of crop, rank the underutilized species in terms of priority and detail the progress achieved so far toward their development and sustainable use in the country.</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>				

PRIORITY ACTIVITY 12: Supporting seed production and distribution

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
40. Number of new varieties released	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>12.1 Indicate all varieties released in the country during the reporting period, specifying taxon, crop and year of release. Optionally, indicate for each variety, the year of registration (when applicable), breeding organization, breeder person, type, origin, target agro-ecological environment(s), important characteristics and pedigree.</p> <p>COLUMN DESCRIPTION</p> <p>Name of taxon link:taxtab</p> <p>Name of crop</p> <p>Name of variety</p> <p>Year of release</p> <p>Year of registration</p> <p>Breeding organization link:instab</p> <p>Breeder person link:pertab</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> <p>Pedigree</p> <p>Remarks³³</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
41. Number of formal/registered seed enterprises	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>12.2 Indicate the most updated number of formal/registered seed enterprises in the country, specifying the year of the information. Optionally, indicate the source of the information.</p> <p>COLUMN DESCRIPTION</p> <p>Number of formal/registered seed enterprises</p> <p>Year of information</p> <p>Reference link:retab</p>				

³³ Remarks include all information under the column *Note* of the former Cultivars table (cultab).

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT 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	1-8	
<p>QUESTION</p> <p>12.3 Indicate 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.</p> <p>COLUMN DESCRIPTION</p> <p>Year</p> <p>Name of crop ①</p> <p>Name of taxon link:taxtab ①</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	COMMENT BY NFP
43. Percentage of area supplied with seed meeting the quality standard of the formal seed sector for the five most widely cultivated annual crops	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>12.4 Indicate for each of the five most widely cultivated annual crops and for the most recent year with available relevant statistics, the taxon name of the crop, 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. Optionally, indicate the name of the annual crop.</p> <p>COLUMN DESCRIPTION</p> <p>Year</p> <p>Name of taxon of annual crop link:taxtab</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	COMMENT BY NFP
44. Existence of a national seed policy and/or seed law	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>12.5 Indicate, if by the end of the reporting period a national seed policy(ies) and/or national seed law(s) existed. Optionally, list it/them together with the year of publication.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of policy/law</p> <p>• Existed • Did not exist</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	COMMENT BY NFP
45. Existence of a national entity (e.g. committee, commission, council, board) functioning as a coordination mechanism for PGRFA activities and/or strategies	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>13.1 Indicate, if by the end of the reporting period a national entity (e.g. committee, commission, council, board) functioning as a governance structure responsible for coordinating and/or facilitating PGRFA activities in the country existed. Optionally, indicate its name, year of establishment and restructuring, and if it governed other genetic resources, its objectives, the categories of stakeholders represented and the frequency of meetings.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of national entity</p> <ul style="list-style-type: none"> • Existed • Did not exist <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>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
46. Existence of a formally appointed national focal point or coordinator for PGRFA	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>13.2 Indicate, if by the end of the reporting period a National Focal Point or coordinator for PGRFA was officially appointed. Optionally, indicate name, title, position, email address, organization and date of appointment.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of National Focal Point</p> <p>• Existed • Did not exist</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>Name of organization link:pertab</p> <p>Date of appointment (YYYY/MM)</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
47. Existence of a governmental policy framework and strategies for PGRFA conservation and use	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>13.3 Indicate, if by the end of the reporting period any governmental policy framework and strategy for PGRFA conservation and use existed. Optionally, indicate reference(s) and year(s) of publication.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of governmental policy/strategy</p> <p>• Existed • Did not exist</p> <p>Policy framework and strategy reference link:reftab</p> <p>Year of publication link:reftab</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
48. Existence of a national information sharing mechanism for PGRFA	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>13.4 Indicate, if by the end of the reporting period any national information sharing mechanism for PGRFA existed. Optionally, indicate reference(s), year(s) of publication and the number of contributing stakeholders.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of national information sharing mechanism</p> <p>• Existed • Did not exist</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	COMMENT BY NFP
49. Membership to a regional PGRFA network	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>14.1 Indicate in which PGRFA regional network(s) the country was a member at the end of the reporting period.</p> <p>COLUMN DESCRIPTION</p> <p>Member of regional network</p> <p>• Yes • No</p> <p>Name of network link:instab</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
50. Number of crop improvement networks in which national stakeholders are members	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>14.2 Indicate in which the crop improvement networks national stakeholders were members at the end of the reporting period. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Member of improvement network</p> <p>• Yes • No</p> <p>Name of network link:instab</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
51. Number of publications produced by national stakeholders within the framework of networks	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>14.3 Indicate publications produced by your organization during the reporting period within the framework of PGRFA networks. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Publications produced</p> <p>• Yes • No</p> <p>Reference link:reftab</p>				

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
52. Number of populations of crop wild relatives conserved <i>in situ</i> and documented in a publicly available information system	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>15.1 Indicate the number of populations of crop wild relatives which at the end of the reporting period were conserved <i>in situ</i> and documented in a publicly available information system, specifying the name and internet address of the information system. Optionally, indicate the percentage of populations characterized and with geographic distribution data.</p> <p>COLUMN DESCRIPTION</p> <p>Number of populations of crop wild relatives</p> <p>Percentage of populations characterized</p> <p>Percentage of populations with geographic distribution data</p> <p>Information system</p> <p>System web address</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
53. Number of farmers' varieties/landraces cultivated on-farm and documented in a publicly available information system	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>15.2 Indicate the number of farmers' varieties/landraces which at the end of the reporting period were cultivated on-farm and documented in a publicly available information system, and specify the name and internet address of the information system. Optionally, indicate the percentage of them with published description and geographic distribution data.</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</p> <p>System web address</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
54. Number of accessions from <i>ex situ</i> collections documented in a publicly available information system	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>15.3 Indicate the number of accessions which at the end of the reporting period were conserved <i>ex situ</i> and documented in a publicly available information system, and specify the name and internet address of the information system. Optionally, indicate the percentage of accession with published characterization and evaluation data. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Holding institute code³⁴</p> <p>Number of accessions³⁵</p> <p>Percentage of accessions with characterization data</p> <p>Percentage of accessions with evaluation data</p> <p>Information system</p> <p>System web address</p>				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
55. Number of released varieties documented in a publicly available information system	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>15.4 Indicate the number of varieties which by the end of the reporting period were released through a formal procedure and documented in a publicly available information system, and specify the name and internet address of the information system. Optionally, indicate the type of information published.</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</p> <p>System web address</p>				

³⁴ It corresponds to descriptor 1 (INSTCODE) of FAO/Bioversity MCPD V.2

³⁵ Equal to or less than the number of records under question 6.2 for the same gene bank

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
56. Participation in publicly accessible, international/regional PGRFA information systems	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>15.5 Indicate, if by the end of the reporting period your organization contributed information to a publicly accessible international/regional PGRFA information system. If so, optionally, indicate the information system and the frequency of updates. (SH)</p> <p>COLUMN DESCRIPTION</p> <p>Contributed to an international/regional PGRFA information system publicly accessible</p> <ul style="list-style-type: none"> • Yes • No <p>International/regional information system</p> <p>Frequency of updates</p> <ul style="list-style-type: none"> • Daily • Monthly • Annually • Every two years • Every three years or more 				

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

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
57. Existence of national systems/mechanisms to monitor and safeguard genetic diversity and minimize genetic erosion	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>16.1 Indicate, if by the end of the reporting period any national system or mechanism to monitor and safeguard genetic diversity and minimize genetic erosion existed. Optionally, indicate the system/mechanism reference, year of publication, the number of contributing stakeholders and remedial actions undertaken.</p> <p>COLUMN DESCRIPTION</p> <p>Existence of national system/mechanism</p> <p>• Existed • Did not exist</p> <p>System/mechanism reference link:reftab</p> <p>Year of publication link:reftab</p> <p>Number of contributing stakeholders</p> <p>Remedial actions undertaken link:protab</p>				

PRIORITY ACTIVITY 17: Building and strengthening human resource capacity

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT 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	1-8	
<p>QUESTION</p> <p>17.1 Indicate, if by the end of the reporting period any post-graduate, graduate and secondary educational and training programmes with incorporated aspects on PGRFA conservation and sustainable use existed in the country.</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"/> Existed at post-graduate level <input type="checkbox"/> Existed at graduate level <input type="checkbox"/> Existed at secondary school level <input type="checkbox"/> Did not exist 				

INDICATOR	APPLICABLE	DATA AVAILABLE	RATING BY NFP	COMMENT BY NFP
60. Percentage of staff whose skills in conserving and using PGRFA have been upgraded	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>17.2 Indicate the total number of professional staff in your organization working on PGRFA conservation and use at the end of the reporting period, 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 professionals</p> <p>Number of PGRFA professionals who completed a PhD programme ①</p> <p>Number of PGRFA professionals who completed a MSc programme ①</p> <p>Number of PGRFA professionals who attended short courses and seminars ①</p>				

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	COMMENT BY NFP
61. Existence of a public awareness programme promoting PGRFA conservation and utilization	YES/NO	YES/NO	1-8	
62. Number of stakeholder groups participating in the implementation of the public awareness programme	YES/NO	YES/NO	1-8	
<p>QUESTION</p> <p>18.1 Indicate, if by the end of the reporting period a public awareness programme promoting PGRFA conservation and utilization existed in the country, and specify the stakeholder groups participating in its implementation. Optionally, 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.</p> <p>COLUMN DESCRIPTION</p> <p>PGRFA public awareness programme • Existed • Did not exist</p> <p>Participating stakeholder groups ①</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) ①</p> <p>Resulting programmes/projects/activities link:protab</p>				

ANNEX II

REPORTING FORMAT: COMMON TABLES

Annex II contains a description of five common tables. Each table is used to store detailed information about the different entities, namely, organizations, contact persons, programmes/projects/activities, taxa and published/unpublished references, which can be referred to in the answers to several questions throughout the Revised Reporting Format.

Information available at FAO on the above the entities are made available to countries through the on-line WIEWS reporting tool.

The ‘ORGANIZATIONS table’ (instab) contains contact information on institutes, organizations and networks, as well as departments or subordinate structures within them. The column ‘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 column 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 '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