1. Name of resource	S				
Alternative location https://sdg.iisd.org/news/fao-guidelines-support-conservation-of-crop-genetic-diversity/ 4. Author[s] Food and Agriculture Organization of the United Nations					
4. Author[s] Food and Agriculture Organization of the United Nation					
4. Author[s] Food and Agriculture Organization of the United Nation.					
(FAO)	5				
5. Publisher/producer/h Food and Agriculture Organization of the United Nations ost (FAO)	Food and Agriculture Organization of the United Nations (FAO)				
6. Year 2019					
7. Suggested citation FAO (2019). Voluntary Guidelines for the Conservation a Sustainable Use of Farmers' Varieties/Landraces. FAO, Rome, available at					
8. Languages in which English available	English				
9. Geographic area Global resource relates to	Global				
10. Does the resource 2015-30 relate to a specific time frame?	2015-30				
11. Type Report Yes	Report Yes				
Toolkit/Framework/Roadmap Yes					
Sign-post to other resource (database) Yes					
	Case studies				
	Other				
12. If this is part of an initiative, what is the initiative? [The resource is discussed in context in the IISD alternat location, with a press release.]	[The resource is discussed in context in the IISD alternative location, with a press release.]				
COLLECTIONS AND COLLECTIONS-BASED INSTITUTIONS					
13. Explicit links to Yes collections					
14. Explicit links to Yes museums/libraries/ar chives					
15. Types of institutions Museums X					
the resource covers Archives					
Libraries					
Other X					
16. Does the resource Arts, humanities and relate to specific social sciences:					
disciplines? philosophy, psychology, religion, social sciences,					
law, politics, language,					
arts and recreation,					
architecture, literature,					

history, geography and ethnology, anthropology, archaeology Science, natural history, technology, medicine, engineering, manufacturing 17. If no explicit links to collections, justification for inclusion HOW IT CONTRIBUTES TO SUSTAINABLE DEVELOPMENT 18. Collections-related activities the resource relates to (mark all that apply) Develop collections to protect and safeguard wider cultural and natural heritage more effectively, for example by targeting collecting to threatened forms of heritage in strategic ways Use collections to promote learning and educational opportunities that contribute to sustainable development more effectively, for example education for sustainable development and sustainable lifestyles, human rights, gender equality,			
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Use collections to promote learning and educational X opportunities that contribute to sustainable development more effectively, for example education for sustainable development			
opportunities that contribute to sustainable development more effectively, for example education for sustainable development			
effectively, for example education for sustainable development			
and sustainable inestyles, numbin rights, genuer equality,			
promotion of a culture of peace and non-violence, global			
citizenship and appreciation of cultural diversity and of culture's			
contribution to sustainable development and/or skills development			
relating to collections			
Use collections to promote cultural participation/social inclusion			
more effectively, for example by reducing barriers to participation,			
to ensure no-one is 'left behind'			
Use collections to promote sustainable tourism more effectively,			
for example by developing new products based on local cultural			
heritage, and/or considering the rights of stakeholder groups in			
relation to collections			
Use collections to support research that contributes to X			
sustainable development (including all forms of personal and self-			
directed research at all levels that make use of stored collections)			
more effectively, for example by providing effective facilities,			
collections and information to meet researchers' needs			
Make decisions around collections that contribute to sustainable			
development more effectively			
i. employment (recruiting, staff training, staff safety) X			
ii. energy consumption, greenhouse gas emissions,			
reduction, monitoring and reporting			
iii. waste management and reduction of waste			
iv. transport (forms of transport, energy use)			
v. commercial activities including copyright and IP X			
vi. governance and management X			
vii. security, disaster preparedness and risk reduction X			

Direct external leadership, partnerships and collaborations	X		
towards sustainable development more effectively, for example			
by developing impactful partnerships			
19. Does the resource relate clearly to any international conventions (mark all that			
apply)?			
Culture conventions:			
1952, 71 Protection of Copyright and Neighbouring Rights	X		
1954 Protection of Cultural Property in the Event of Armed Conflict			
1970 Fighting Against the Illicit Trafficking of Cultural Property			
1972 Protection of the World Cultural and Natural Heritage	X		
2001 Protection of the Underwater Cultural Heritage			
2003 Safeguarding of the Intangible Cultural Heritage			
2005 Protection and Promotion of the Diversity of Cultural			
Expressions			
Rio Conventions:			
Convention on Biological Diversity (CBD), Convention to Combat	X		
Desertification (UNCCD), Framework Convention on Climate			
Change (UNFCCC)			

AIMS AND CONTENT

20. What issues does the resource aim to address?

"The cultivation of diverse farmers' varieties/landraces, which tend to be well-adapted and suited to local production systems, confers increased resilience for crop production. Farmers' varieties/landraces are also potential sources of traits for crop improvement, especially for developing varieties tolerant to biotic and abiotic stresses and for incorporating farmer-preferred traits. Unfortunately, many of these genetic resources have been replaced by modern cultivars in recent decades, resulting in a reduction in the total number of different varieties grown and/or loss of heterogeneity. Such losses make farming systems less resilient, especially to shocks from abiotic and biotic stresses. These guidelines, intended as reference materials for preparing a National Plan for the Conservation and Sustainable Use of Farmers' Varieties/Landraces, will contribute to addressing this continuing loss of diversity. The guidelines are therefore a useful tool for development practitioners, researchers, students and policy-makers who work on the conservation and sustainable use of these valuable resources" (back cover)

"These voluntary Guidelines are specifically aimed to serve as a reference for national authorities developing and strengthening the conservation and sustainable use of farmers' varieties/landraces. They are primarily intended for staff associated with national PGRFA [plant genetic

	resources for food and agriculture] programmes, but may
	also be of use for universities and research
	organizations, non-governmental organizations (NGOs),
	farmers and/or farmers' organizations and other
	partnering institutions of national authorities. The
	guidelines consist of a simple set of steps and methods to
	guide the formulation of a National Plan. To promote
	systematic, coordinated and integrated ex situ
	conservation and on-farm management of farmers'
	varieties/landraces, the guidelines consist of a simple set
	of steps and methods to guide the formulation of a
	National Plan for Conservation and Sustainable Use of
	Farmers' Varieties/Landraces." (p.13)
21. Intended audience of	"Development practitioners, researchers, students and
resource	policy-makers who work on the conservation and
	sustainable use of [plant genetic resources for food and
	agriculture]"
22. Process of	"These Guidelines were produced under the guidance of,
development	and endorsed by, FAO's Commission on Genetic Resources
	for Food and Agriculture (Commission). FAO's Plant
	Production and Protection Division adapted the Guidelines
	from the Resource Book for the Preparation of National
	Conservation Plans for Crop Wild Relatives and Landraces,
	an earlier FAO-commissioned study undertaken by the
	University of Birmingham, United Kingdom. The publication
	of these Guidelines was made possible by the contributions
	of many individuals" (p.7)
23. Organisation/structur	Foreword v
e/contents	Acknowledgements vii
c/ contents	Acronyms and abbreviations ix
	Executive summary xi
	1. Introduction 1
	2. Stakeholders and timeline 15
	3. Understanding the country context 21
	4. Strengthening the farmers' variety/landrace knowledge
	base 29
	5. Establishing conservation priorities 55
	6. Preparing the national plan 71
	7. Implementation 81
	8. Monitoring farmer's variety/landrace diversity and
	reporting 111
	9. Capacity building 121
	References 125
	Annexes 129
FRAMEWORKS	
24. Framework structure	The chapters are structured as sets of guidelines that can be
	considered as frameworks.

25. Relevant policy	Yes
considerations	V
26. Resources for	Yes
implementation	
identified	V
27. Specific assessment	Yes
points/indicators/mile	
stones/action plan for	
monitoring	BILITY COVERED BY RESOURCE (mark all that apply)
	X
People (social sustainability) Planet (environmental	X
sustainability)	^
Prosperity (economic	X
sustainability)	^
Peace	X
Partnerships	X
•	DERATIONS COVERED BY RESOURCE (mark all that apply)
Gender perspectives	DERATIONS COVERED BY RESOURCE (mark all that apply)
North and South perspectives	X
•	BUTES TO AGENDA 2030 AND THE SDGs
	SDGs FEATURE IN THE RESOURCE
30. SDGs and Agenda	Yes
2030 specifically	
mentioned?	
31. SDGs specifically	Yes
mentioned?	
32. SDG targets	Yes
specifically	
mentioned?	
33. SDG indicators	No
specifically	
mentioned?	
SDGs AND SDG TARGETS AND	LINKAGES
34. Comments on SDG	The resource can help inform a range of activities relating to
linkages	collections-based institutions preserving and/or storing
	plant material and providing educational programmes
	related to agriculture. These contribute towards a number
	of SDG targets including:
	1.4 (access to property, including crop heritage), 2.5
	(ensuring fair sharing of benefits from use of crops and
	traditional knowledge), 9.1 (inclusive infrastructure that
	supports economic development, with a focus on equitable
	access), 9.5 (promoting scientific research), 11.4
	(strengthen efforts to protect and safeguard cultural and
	natural heritage), 16.10 (on ensuring the right to

information and protecting other fundamental freedoms), 16.B (upholding laws and adopting policies for sustainable development), 17.16 (international partnerships) and 17.17 (cross-sector partnerships).

The resource can also help to understand the context regarding target 15.6 (fair sharing of benefits from use of genetic resources). The resource can also help support the development of knowledge and attitudes regarding traditional agriculture and agricultural methods (4.4, 4.7), also contributing to SDGs 12.8 and 13.3.

Preservation of crop and plant diversity contributes towards Disaster Risk Reduction and sustainable agriculture, reducing the impact of climate and other disasters on poor people (SDG 1.5), ensuring people have reliable access to food (SDG 2.1), enhancing agricultural productivity (SDG 2.3), sustainable food production and resilient agricultural practices (SDG 2.4), reducing the impact of disasters (11.5), strengthening resilience and adaptive capacity to climate change and natural disasters (13.1).

The focus on planning at a national level contributes to SDG 13.2 (climate change planning at national level).

35. SDGs and SDG targets the resource helps advance

SDG 1: End poverty in all its forms everywhere

1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance

Numbers and proportions of people from particular groups using collections in comparison with demographics in broader society.

Numbers of people accessing collections.

Number of targeted programmes that aim to enhance access to collections by disadvantaged groups.

Sustainable tourism that enhances local communities' access to basic services, ownership and control over land and other forms of property (including cultural and natural heritage), as well as to technology and markets.

Involvement of people from disadvantaged groups in decision-making activities and processes relating to collections and collections-based institutions.

SDG 1: End poverty in all its forms everywhere

1.5 By 2030, build resilience of the poor and those in

Number of collecting programmes that aim to build resilience to climate-related events and other shocks and disasters, for example by forming collections that can

vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters.

contribute to related educational and research programmes.

Number of educational programmes drawing on collections that incorporate resilience perspectives.

Number of targeted programmes drawing on collections that are aimed at vulnerable groups, to build their resilience to climate-related and other shocks and disasters.

Number of research programmes drawing on collections that are aimed at building resilience to climate-related and other shocks and disasters.

Strengthen the resilience of employees, communities and suppliers by paying at a minimum the living wage and offering insurance to employees and their families, such as accident insurance; and by paying fair prices to all suppliers

SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture

2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round

Number of educational programmes incorporating food security, nutrition and seasonal diet perspectives.

Collections development related to food security, nutrition and seasonal diets, as appropriate

Number of targeted educational, awareness-raising and partnership programmes relating to food and nutrition, drawing on collections, aimed at vulnerable and marginalized groups.

Number of research activities drawing on collections that relate to resilient agricultural practices, helping mitigate and adapt to climate change, flooding and other disasters.

SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture 2.3 By 2030, double the

sustainable agriculture
2.3 By 2030, double the
agricultural productivity and
incomes of small-scale food
producers, in particular
women, indigenous peoples,
family farmers, pastoralists
and fishers, including through
secure and equal access to

Collections development that can support programmes related to small-scale food producers, for example by ensuring that traditional knowledge is preserved and maintained.

Number of educational, awareness-raising, research and partnership programmes based on collections that support small-scale food producers, both in terms of supporting the producers themselves, and that support others to support them.

land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and nonfarm employment Policies and plans in place to ensure that tourism activities support (and do not infringe upon) people's rights of access to land for agricultural purposes.

Provide markets for small-scale food producers' products.

SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture

2.4 By 2030, ensure sustainable food production systems to implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.

Collections development related to sustainable food production where appropriate.

Number of educational and awareness-raising programmes incorporating sustainable food production perspectives, and that aim to reduce the impact of disasters on communities.

Number of targeted programmes that support those most exposed and vulnerable to disasters, whether locally or farther afield.

Number of research activities drawing on collections that relate to resilient agricultural practices, helping mitigate and adapt to climate change, flooding and other disasters.

Policies and plans in place to eliminate unsustainable food production from supply chains and in any food provision in collections-based institutions.

Number of partnership activities drawing on collections that contribute to Disaster Risk Reduction plans, supporting resilient agricultural practices, and helping mitigate and adapt to climate change, flooding and other disasters.

sDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture 2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to

Collections development related to genetic diversity of seeds, cultivated plants, farmed and domesticated animals (notably of local or at-risk varieties) and related wild species, for example in herbaria, museums, seed and gene banks, and seed libraries.

Number of educational programmes related to genetic diversity of domesticated plants, animals and wild relatives.

Number of educational programmes related to fair and equitable benefits of use of genetic resources and associated traditional knowledge, following international agreements (e.g. Nagoya Protocol).

and fair and equitable	Number of educational and awareness programmes for
sharing of benefits arising	people to ensure that they are aware of their rights and
from the utilization of genetic	protections in terms of traditional knowledge, and
resources and associated	exploitation of genetic resources.
traditional knowledge, as	
internationally agreed	Number of research activities that help understand
	traditional knowledge, and genetic diversity of crop plants
	and animals.
	Ensure that producers of crop plants and animals are fairly
	compensated.
	Policies and procedures in place to ensure seed banks are
	soundly managed, in terms of risk management and
	emergency planning.
	3-1-7 p
	Policies and procedures in place to ensure legal compliance
	with fair and equitable benefits of use of genetic resources
	and associated traditional knowledge, following
	international agreements (e.g. Nagoya Protocol).
	international agreements (e.g. Nagoya Protocol).
	Number of partnerships at national, regional and
	international levels, as appropriate, to soundly manage
SDG 4. Ensure inclusive and	seed and plant banks.
	Niveshou of voves accule and advite in chills development
equitable quality education	Number of young people and adults in skills-development
and promote lifelong	activities and programmes drawing on collections, for
learning opportunities for all	employment, decent jobs and entrepreneurship
4.4 By 2030, substantially	to a control of the control of the control of the control of
increase the number of youth	Increase in number of young people and adults in such
and adults who have relevant	programmes
skills, including technical and	
vocational skills, for	Number and proportion of staff who have received training
employment, decent jobs	in the last year, to better support their contribution to the
and entrepreneurship	SDGs.
	Programs and processes in place to ensure the availability
	of a skilled workforce.
SDG 4. Ensure inclusive and	
equitable quality education	
and promote lifelong	
learning opportunities for all	
4.7 By 2030, ensure that all	
learners acquire the	

knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development

Numbers of people in each type of programme drawing on collections from different demographic groups.

Increases in numbers of people in each type of programme from different demographic groups.

Proportion of people involved in such programmes in relation to overall audience size.

Evidence that learners have acquired knowledge and skills to promote sustainable development.

SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

Development of research-useful collections to support reliable, sustainable and resilient use by researchers and others.

Number and proportion of collections facilities and stores that support economic development and human well-being.

Number and proportion of collections facilities and stores that provide affordable and equitable access for all.

Investment in collections facilities.

Inclusion of collections information in regional and transborder initiatives, notably via digital access for discoverability.

SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization

9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1

Number and proportion of collections facilities that effectively support research and researchers.

Number and proportion of staff who are appropriately skilled to undertake and support collections-based research.

Expenditure on initiatives to enhance and upgrade collections facilities.

Numbers of staff engaged in supporting and developing research use based on collections.

million people and public and
private research and
development spending

Number of initiatives to encourage innovation drawing on collections.

Increase in number of research and development workers per 1 million people.

Increase in public and private research and development spending being used to develop and make use of collections.

SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable

11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage

11.4.1 Total expenditure (public and private) per capita spent on the preservation, protection and conservation of all cultural and natural heritage, by type of heritage

Plans, policies and procedures in place for the safe use of collections for a variety of purposes, protecting and safeguarding both collections and those who use them.

Plans, policies and procedures in place for the identification, safeguarding and protection of cultural and natural heritage at risk.

Collecting programmes in place to protect, safeguard and make use of cultural and natural heritage, addressing the needs of communities and stakeholders, and ensuring that collections can be an effective resource for sustainable development.

Number and diversity of educational, awareness-raising, research programmes, and partnerships that aim to strengthen protection of cultural and natural heritage.

SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable

11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor

Collections-based research that supports the understanding and management of disasters of all kinds.

Plans in place for public education and awareness drawing on collections and collections-based institutions to reduce exposure and vulnerability to disasters of all kinds.

Plans in place to ensure collections-based institutions steadily work to reduce their contributions to disaster risk, for example by reducing pollution and waste of all kinds.

and people in vulnerable situations	Plans in place to ensure collections-based institutions, and people related to them (including workers) are protected from economic losses as a result of disasters. Plans in place to provide special support/protection to poor and vulnerable people and groups in and following disasters.
SDG 12 Ensure sustainable consumption and production patterns 12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	12.8.1 Extent to which (i) global citizenship education and (ii) education for sustainable development (including climate change education) are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment Extent to which global citizenship education and education for sustainable development (including climate change education) are mainstreamed in formal, informal and nonformal education programmes and activities drawing on and related to collections.
SDG 13. Take urgent action to combat climate change and its impacts 13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	Plans in place for near and longer term to withstand and actively adapt to climate-related hazards and natural disasters.
SDG 13. Take urgent action to combat climate change and its impacts 13.2 Integrate climate change measures into national policies, strategies and planning	National organisations, institutions and networks relating to collections and collections-based institutions to have integrated climate change measures into policies, strategies and planning relating to collections and collections-based institutions, including funding and other resourcing considerations.
SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change. Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning.

	Plans in place to reduce negative contributions of
	collections-related functions, e.g. measuring greenhouse
	emissions with plans and targets in place to reduce them.
SDG 15 Protect, restore and	
promote sustainable use of	Policies, plans and agreements in place for access and
terrestrial ecosystems,	benefit sharing relating to use of collections, in line with the
sustainably manage forests,	Nagoya Protocol (notably relating to natural history
combat desertification, and	collections, gene banks, tissue banks, seed banks).
halt and reverse land	
degradation and halt	Effective communication and dissemination methods in
biodiversity loss	place to promote access to resources, and access to
15.6 Promote fair and	relevant policies, plans and agreements, in place.
equitable sharing of the	relevant policies, plans and agreements, in place.
benefits arising from the	
utilization of genetic	
resources and promote	
appropriate access to such	
resources, as internationally	
agreed	
SDG 16. Promote peaceful	
and inclusive societies for	Adopt and implement constitutional, statutory and/or
sustainable development,	policy guarantees for public access to information.
provide access to justice for	
all and build effective,	Plans in place, and plans implemented to enhance public
accountable and inclusive	access to information relating to collections.
institutions at all levels.	
16.10 Ensure public access to	Plans in place, and plans implemented to support
information and protect	fundamental freedoms, in line with human rights, national
fundamental freedoms, in	and international agreements and legislation.
accordance with national	
legislation and international	Plans and procedures in place for public access to
agreements	information relating to the operation and management of
	collections-based institutions.
	Complaint mechanism in place for public to use where
	public access to information and fundamental freedoms not
	supported or fulfilled.
SDG 16. Promote peaceful	
and inclusive societies for	16.B.1 Proportion of population [audience/users/non-
sustainable development,	users] reporting having personally felt discriminated
provide access to justice for	against or harassed in the previous 12 months on the basis
all and build effective,	of a ground of discrimination prohibited under
accountable and inclusive	international human rights law
institutions at all levels.	meemacional naman rights law
16.B Promote and enforce	Number and proportion of policies that incorporate
	sustainable development considerations, in the full sense of
non-discriminatory laws and	sustainable development considerations, in the full sense of

policies for sustainable development	9	recognizing all three of social, economic and environmental considerations.				
SDG 17. Partnerships of goals 17.16 Enhance the glo partnership for sustain development, complete by multi-stakeholder partnerships that mob and share knowledge, expertise, technology of financial resources, to support the achievement the sustainable develogoals in all countries, in particular developing countries	bal nable mented illize and ent of	Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships that share collection-related knowledge, expertise, technology and financial resources to address the SDGs, or that otherwise involve collections-based organisations and institutions. Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships involving developing countries that share collection-related			chips that share chnology and that otherwise institutions. Versity of global ships involving related	
SDG 17. Partnerships for the goals 17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships		17.17.1 Amount of United States dollars committed to public-private and civil society partnerships Number and/or increase in number, and diversity of local, national and regional multi-stakeholder (public, public-private and civil society) partnerships that address the SDGs drawing on collections, or that otherwise involve collections-based organizations and institutions.				
1	2	3	<mark>4</mark>	5	6	
7	8	<mark>9</mark>	10	<mark>11</mark>	<mark>12</mark>	
<mark>13</mark>	14	<mark>15</mark>	<mark>16</mark>	<mark>17</mark>		