



# **DELIVERABLE 2.3**

# Methods and minimum quality standards for *in situ* management of PGR

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# Promoting a plant genetic resource community for Europe

## Deliverable No. D2.3

# Methods and minimum quality standards for *in situ* management of PGR

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### **Abbreviations**

CBD	Convention on Biological Diversity	IUCN	International Union for the Conservation of Nature and Natural Resources
CxE	Characterization and evaluation	LR	Crop landrace
CWR	Crop wild relative	OECM	Other effective conservation measure
ECPGR	European Cooperative Programme for Crop Genetic Resources Networks	PA	Protected area
EURISCO	European Search Catalogue for Plant Genetic Resources	PGR	Plant genetic resource
FAO	Food and Agriculture Organization of the United Nations	PGRFA	Plant genetic resource for food and agriculture
GIS	Geographic information system	WHP	Wild harvested plant

#### Summary

This project deliverable describes the essential data types required to effectively document in situ conservation of PGR, focusing on their conservation planning and implementation, population management and monitoring, and promoting conserved resource availability. These basic data types form the foundation for the development of standardized descriptors for in situ conservation of PGR. The document presents a brief overview of the *in situ* conservation process (section 1), summarising past literature and proposals on in situ conservation and demonstrating where data is generated and analysed. These elements feed into section 2 where the detailed requirements are described at each stage of the in situ conservation process. This section incorporates previous knowledge on the use of descriptors but collates them into specific categories based on the data required for in situ conservation. Section 3 describes the approach used to collate the existing descriptors and the generation of new descriptors into the novel list of descriptors for in situ conservation - this is the first time such an extensive and detailed analysis of descriptors for in situ conservation has been done before. These data types form the basis of descriptors to aid in the gathering and formatting of *in situ* conservation data to maximise information content. There are 171 descriptors of which 64 are defined as the minimum required for in situ conservation of PGR. Finally, recommendations for the most effective use and future development of the minimum standards for in situ conservation are presented.

#### 1. Introduction

In situ conservation is the maintenance of the plant genetic resources (PGR) where they occur, either cultivated on-farm / in garden or as wild populations in wild / semi-natural habitats (Maxted et al., 2020). In these conditions PGR populations continue to evolve and respond to environmental changes within their natural habitat or on-farm systems retaining their adaptive diversity. This contrasts with ex situ conservation, where evolutionary development is "frozen" as conserved resources are stored in genebanks and regenerated only as necessary to renew germination levels. While ex situ conservation techniques are well both in terms of the methodology applied to conserve PGR but also to facilitate the use of conserved resource in an effective and efficient way. The application of in situ PGR conservation techniques is thus far limited, but the associated science and its implementation is advancing rapidly, and it is recognised that wider in situ implementation has the potential to at least double the PGR diversity available to breeders and other users (Maxted and Magos Brehm, 2023). Consequently, a dual complementary approach to conservation is recommended that combines the application of ex situ and in situ techniques in parallel (CBD, 1992; FAO, 1998).

Due to long-term implementation of *ex situ* conservation techniques, there are well developed systems for data description and management. Such data infrastructures make resources and associated data easier to manage, monitor and use, the latter being a key reason for PGR conservation. The relatively less established *in situ* PGR data infrastructure means that the associated processes for data management are currently unavailable or under-developed. This is a short-term problem but also provides an opportunity to plan *de novo in situ* data acquisition, management and interoperability with established data systems, from first principles rather than letting it evolve *ad hoc* over an extended time scale – hopefully providing a basis for more efficient and effective systems design.

The application of *in situ* techniques focuses on two types of PGR: crop wild relatives (CWR) (+ wild harvested plants, WHP¹) and landraces (LR), and each has two established conservation techniques available (Maxted *et al.*, 2020):

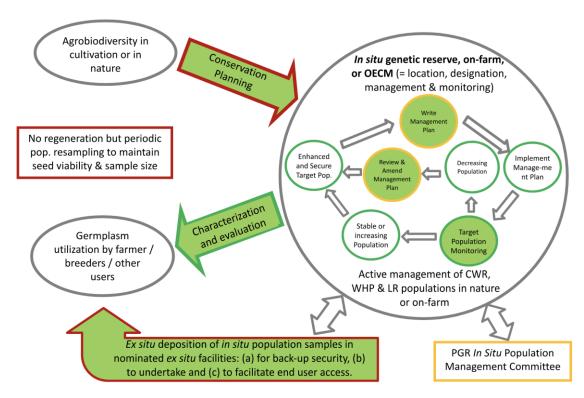
- CWR *in situ* conservation techniques:
  - Genetic reserve conservation the location, management and monitoring of genetic diversity in wild populations within defined areas protected areas designated for active, long-term conservation.
  - Other effective area-based conservation measures (OECM) the location, management and monitoring of genetic diversity of wild populations in informally managed in situ conservation sites other than protected areas (CBD 2018).
- LR *in situ* conservation techniques:
  - On-farm conservation the sustainable management of genetic diversity of locally developed traditional landraces with associated wild and weedy species or forms by farmers within traditional agricultural, horticultural, agri-silvicultural or agroecological cultivation systems.
  - Home garden the location, management and monitoring of genetic diversity of locally developed traditional landraces and heirloom varieties or forms by the householder within their individual garden, backyard or orchard cultivation systems for home consumption.

The process of *in situ* conservation is summarized in Figure 1 and expounded in PRO GRACE deliverable D1.3 (Maxted *et al.*, 2024). Figure 1 shows several components associated with data

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<sup>&</sup>lt;sup>1</sup> Note: Both CWR and WHP are wild plant taxa found in nature without any intrinsic distinction other that their human use, therefore it is assumed the conservation techniques and their data foundation requiring no specific adaptation for either. However, with so few examples of WHP conservation published and increased usage the validity of this assumption should to be tested.

generation and information management, some apply to both *in situ* and *ex situ* applications, e.g. target population sampling, *ex situ* duplication, characterization and evaluation, and germplasm utilization, while others are specifically associated with *in situ* activities, e.g. *in situ* conservation implementation and monitoring. This information about *in situ* PGR may often be present within a country however it may be scattered across various sources or not present at all (van Hintum and Iriondo, 2022). This heterogeneity of cases is one of the reasons why it is difficult for users (plant breeders and crop scientists) to find out about and access these resources (van Hintum and Iriondo, 2022).



**Figure 1.** Schematic description of key elements of *in situ* conservation, with those processes that generate data and information highlighted in green (Maxted *et al.*, 2024).

This deliverable builds on D1.3 by describing the minimum data types required to effectively manage *in situ* conservation of PGR, focusing on their documentation, planning, management, monitoring, and utilization. These data requirements form the foundation for the collation and creation of standardized descriptors, as described in Section 3.

#### 2. Quality standards for in situ PGR conservation and management

To be able to manage and promote *in situ* conservation requires an effective data and informatics foundation. In fact, lack of access to data and the scarcity or absence of exchange of information as well as decision-support tools, which simplify complex tasks are key factors affecting the effectiveness of PGR conservation and use of PGRFA (Bioversity International, 2007; Maxted *et al.*, 2020). Furthermore, the absence of shared data management and analysis tools creates significant challenges in conservation, particularly in data collection and monitoring. Such data management tools and analysis packages can help significantly in ensuring that different countries operate in comparable manners further facilitating ease of data exchange and integration (Stephenson and Stengel, 2020). The *in situ* description, management and resource accessing activities shown in Figure 1, highlight this need for *in situ* component and multi-national integration. Such integration also helps ensure data and information adhere to the 'FAIR principles' (Wilkinson *et al.*, 2016; 2022), which are

further associated with minimum sets of descriptors to facilitate resource description and management.

There is a critical characteristic of PGR data and information, which affects the type and kind of data being produced, critically CWR, WHP or LR data can be generated at two levels, taxon and population. The taxonomic data is often linked to the creation of the checklist including the scope of description of species, such as: infra-specific taxa, or crop diversity (i.e. the taxonomy), crossability of the species, related crop, threat status and legislative protection. The population data is more linked to the characteristics, such as: individual population, accession or record, collection site descriptors, population size descriptors, population management descriptors, etc. (van Hintum and Iriondo, 2022) as well as characterization or observational data and experimental or evaluation data related to the population being monitored (Maxted *et al.*, 2020). The taxon and population level distinction is not mutually exclusive, in that although PGR will be predominantly either taxon or population based, most PGR data sets will contain both taxon and population data (i.e., Characterization and Evaluation data sets, some descriptors will be fixed for a taxon / crop and others will vary individual to individual).

There are several standards and descriptors associated with in situ conservation PGR data that developed in recent years for CWR (= WHP in terms of data management) and LR, including: Moore et al., 2008; Negri et al., 2012; Thormann et al., 2013; FAO/Bioversity, 2015; Magos Brehm et al., 2017b; Alericia et al., 2022; van Hintum and Iriondo., 2022. The aim of this deliverable is: (a) to compile a consolidated list of all standards and descriptors related to the documentation and management of in situ conserved taxa and populations of PGR (CWR, WHP and LR) based on the previously mentioned references; (b) review the consolidated list to identify descriptor gaps and where gaps exit propose new descriptors; and (c) to recommend an interrelated system that helps describing, managing and accessing in situ conserved population data allowing the interface between national databases and EURISCO (2025a), a vital access point for valuable PGR data and user germplasm access. Each of the components of the in situ conservation process, as with ex situ activities, will be built in compliance with the 'FAIR principles' of findable, accessible, interoperable and reusable data (Wilkinson et al., 2016). Below, we highlight the specific data requirements that are generated from this process, and which are required for the efficient conservation of PGR. These data requirements are then used to develop the product a consolidated in situ descriptor list for the PGR conservation and use. The level at which the descriptors relate to, taxon or population, is also assigned to each section.

#### 2.1 Data management identifiers

 Data management identifiers - (taxon or population level) Data associated with documentation are those that help to identify the inventory, population or accession. They help to keep associated data organised and provide a key reference linking datasets to each other. Information may include: National checklist / inventory code, regional checklist / inventory code, managing body information (for both *in situ* and *ex situ*), population code and DOI information.

#### 2.2 Conservation planning:

- <u>Selection of target taxa</u> (taxon level) These data are recorded not for individual accession or
  populations but are focused on the taxonomic level and usually related to national level
  information. Taxonomic level PGR information is particularly associated with *in situ* or on-farm
  conservation, where there are potentially numerous populations that could be actively
  conserved.
  - Initially a taxon checklist is developed of all PGR taxa within a defined area. A checklist could be produced at different levels, such as: global, regional, national (the most common), local, or based on a particular area (i.e. a protected area). The checklist contains a list of core taxon information, including: taxon ID, taxon name, family, genus, species, authority of the taxon name, rank, synonyms and photo or image.

- An annotated checklist is created next which includes ancillary information for each of the taxa in the checklist. The additional information may include: related crop information, gene pool or taxon group concept type, breeding use, general distribution, socioeconomic data and threat assessment information.
- The inventory is based upon the taxonomic checklist and is a prioritized list of taxa. This is a subset of PGR for active conservation measures. The inventory will include the following additional data: common name of the taxon, related crop use, taxon biology details, taxon conservation action information (both *in situ* and *ex situ*).
- <u>Ecogeographic survey</u> (population level) Ecogeographic surveys collect information about the ecological aspect of a taxon, that is then synthesised to predict and help clarify conservation priorities (Castañeda Álvarez *et al.*, 2011).
  - In addition to the previous descriptors the ecogeographic survey information will include: detailed location information of the in situ population and / or ex situ accession, presence within a PA, ex situ storage information, ecological and habitat information (such as soil type), genomic genetic diversity data
  - This information is utilised to conduct the following analyses to produce more targeted conservation planning, usually utilising GIS. These analyses may include the following: taxon richness, surveying effort, in situ and ex situ gap analyses, complementarity analyses, ecogeographic/genetic analyses and climate change analysis.

#### 2.3 *In situ* conservation implementation:

- Management plan (population or taxon level) The outcomes from the monitoring will
  determine the management strategies used to maintain the population in situ. In addition to
  the previous information which will form the background of the management plan, other data
  generated may include: the managing body, or maintainer information, management
  interventions, conservation actions taking place, ex situ regeneration and population
  resampling.
- <u>Population monitoring</u> (population level) Once sites or populations have been identified for conservation, then monitoring will need to take place. Data generated from this process may include: loss risk of LR, continuity of growing LR, cultivation period, status on farm, regeneration ex situ, herbivore impacts, vegetation height, negative habitat features, habitat availability, pop cover, population information (numbers, frequency), threats to population, genetic monitoring (including molecular marker data), habitat monitoring, threat category (IUCN Red list).
- <u>In situ networking</u> (population level) *In situ* conservation networks should be established where possible to ensure the range of diversity of a taxon (as recorded in previous data collection) is appropriately conserved. The network can be at a local, national, regional and global scale. Data associated with the creation of a network will include: the number of sites in a network and the scale of the network.

#### 2.4 Population sampling and *ex situ* duplication:

• (Population level) Ex situ descriptors have been widely developed and utilised (FAO/Bioversity, 2015) with a recent project producing descriptors that bridge the gap between in situ conservation and ex situ back up (van Hintum and Iriondo, 2022; EURISCO, 2025b). These descriptors cover ex situ data which include information on: ex situ institute and ex situ accession number.

#### 2.5 Characterization and evaluation:

• (Taxon and population level) Characterization consists of recording those characters that are highly heritable, can be seen easily by eye and are expressed in all environments. Evaluation consists of recording those characters that are susceptible to environmental differences. Characterization and evaluation data will be highly specific to the taxon being studied, therefore these descriptors are not included in the *in situ* PGR conservation descriptors. There will also be no distinction between CxE descriptors for *in situ* or *ex situ* activities. A more comprehensive list of taxon specific descriptors can be found on the Bioversity website (<a href="https://alliancebioversityciat.org/publications-data">https://alliancebioversityciat.org/publications-data</a>). Characterisation and evaluation data have been reviewed in PRO-GRACE Deliverable *D1.1 Standards for collecting and displaying phenotypic data and images* and *D1.2 Standards for collecting and displaying genetic data* and are being developed by the Documentation and Informatics Working Group of ECPGR.

#### 2.6 Germplasm utilization:

(Taxon and population level) Plant genetic resources (PGR) conservation is unique, in terms of conservation, in that the raison d'être is not solely the conservation of the biodiversity resource alone but, it is also the use of the conserved resource (Maxted et al., 1997). The main reason for the conservation of PGR is so that they can be utilised. This is the final step in the cycle of PGR conservation, with use of PGR often contributing to the conservation of some taxa and populations. For utilisation of the resource the following data may be collected: any geographical designation or variety registration, breeding use, market demands, product use, part of plant used, reasons for growing or harvesting the taxon.

#### 3. Methods for collating and developing descriptors

Descriptor lists for PGR constitute the basis for a standardized documentation system that provides an internationally agreed format and universally understood 'language' for PGR data (Bioversity International 2007). In situ descriptors are less well developed than the already extensively applied ex situ descriptors, such as passport data, ecogeographic data, ex situ conservation and characterization and evaluation (e.g., MCPD; Alercia et al., 2015) and there was not previously a consolidated in situ descriptor list. The preparation of this list necessitated gathering descriptors information from a wide range of sources, including general biodiversity and ecological monitoring domains (Table 1), and where descriptors were missing new ones were proposed and referenced as Phillips and Maxted (2025). Also included are key ex situ descriptors which are directly relevant to in situ conservation activities. The collated descriptors were edited to prevent duplication, to be concise and explicit in their application. The descriptor list was reviewed by a panel of experts from leading research and conservation institutions (primarily experts from the PRO-GRACE project consortium and ECPGR Documentation, CWR and On-farm Working Groups), with changes made where appropriate based on their feedback.

Table 1 provides an overview of the categories, and the number of descriptors identified with key references used for the consolidated *in situ* descriptor list (see Annex 1). Annex 1 is an Excel table of the full list of descriptor names, descriptor category, descriptor level (taxon, population), descriptor description and whether it is part of the minimum, LR, CWR and WHP descriptors and references. The total number of descriptors is 171, with 64 defined as the minimum required descriptors for *in situ* conservation of PGR. The reference list is included in Annex 1 and indicates which descriptors were used from which references. Some descriptors were taken directly from the references, others were changed slightly (such as a change in the description of the descriptor to better describe its use in *in situ* conservation) and some were novel (see Phillips and Maxted, 2025). The inclusion of the references allows the user to consult original sources if needed and ensures that it is clear that the new list builds upon past descriptor iterations, therefore fostering future collaboration. This list is comprehensive, too comprehensive to be applied in its entirety for each CWR, WHP or LR taxon or population. The user is expected to use the filter provided to select subset of descriptors appropriate for the *in situ* application in hand and subsets of descriptors are indicated in the different descriptor categories, level and minimum LR, CWR and WHP descriptors.

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**Table 1.** Categories of descriptors for PGR *in situ* conservation activities. The category of descriptors includes a general description about the category; key references for where the descriptor was derived; and the number of descriptors in each category. Some references are used in more than one category. Some descriptors fit into more than one category e.g. 'Accession collecting information' is in both the ecogeographic and *ex situ* category.

Category of descriptor	Key references	Total number of descriptors	Number of minimum descriptors required
<b>Data management identifiers</b> - Key descriptors which aid in identification and organization of <i>in situ</i> population or accession data, e.g. the managing institution, ID number of the inventory	Almeida, M.J., 2024; Negri et al., 2012; Magos Brehm et al., 2017b; Caproni et al., 2020; EURISCO, 205b4; Phillips and Maxted, 2025.	17	12
Passport data - Taxon and population identification information e.g taxon biology and prioritisation criteria (i.e. genepool concept level)	JNCC, 2004; Bioversity International, 2007; Moore et al., 2008; Bioversity and The Christensen Fund, 2009; Negri et al., 2012; Thormann et al., 2013; FAO/Bioversity, 2015; Magos Brehm et al., 2017b; IUCN Red List Technical Working Group, 2018; Caproni et al., 2020; Darwin Core Maintenance Group, 2021; Alericia et al., 2022; Armstrong et al., 2023; EURISCO, 2025b; Phillips and Maxted, 2025. Wieczorek, J., et al., 2012	41	12
<b>Ecogeographic survey</b> - Ecogeographic information is the broad scale ecological information and location information of the accession or <i>in situ</i> population e.g. GPS coordinates, topography and soil type.	JNCC, 2004; Bioversity International, 2007; Moore <i>et al.</i> , 2008; Bioversity and The Christensen Fund, 2009; Negri <i>et al.</i> , 2012; Thormann <i>et al.</i> , 2013; FAO/Bioversity, 2015; Magos Brehm <i>et al.</i> , 2017b; IUCN Red List Technical Working Group, 2018; Caproni <i>et al.</i> , 2020; Darwin Core Maintenance Group, 2021; Alericia <i>et al.</i> , 2022; Armstrong <i>et al.</i> , 2023; EURISCO, 2025b; Phillips and Maxted, 2025.	42	18
<b>Monitoring</b> - Information related to population monitoring parameters e.g. population size and threats	Almeida, M.J., 2024; Moore <i>et al.</i> , 2008; IUCN Red List Technical Working Group, 2018; Phillips and Maxted, 2025.	21	7
<b>Management</b> - interventions and conservation actions for the population or taxon	Negri et al., 2012; Thormann et al., 2013; Alericia et al., 2022; EURISCO, 2025b; Phillips and Maxted, 2025.	8	5
<i>In situ</i> networking - presence of populations or sites in a network	Maxted, N., et al., 2016; Phillips and Maxted, 2025.	25	15
Ex situ conservation - data related to the ex situ duplicated accession	FAO/Bioversity, 2015; EURISCO 2025b.	7	6

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Utilization - includes information on how	Negri et al., 2012; Thormann et al., 2013; FAO/Bioversity, 2015; Caproni et al.,	31	1
the taxa may be used and in situ access	2020; EURISCO, 2025b; Phillips and Maxted, 2025. Wieczorek, J., et al., 2012		

#### 4. Conclusions and recommendations

The consolidated *in situ* descriptor list presented is built on existing diverse descriptor lists and where gaps were identified further descriptors were added. It constitutes a timely resource to enhance future, practical implementation of *in situ* PGR at national and regional levels and so both mitigate the challenges of environmental and sustainably increasing food security; data and information management is at the heart of such vital PGR activities. It is widely accepted that using standardised descriptors avoids unnecessary repetitive data input, facilitates data exchange, allows multiple uses of the same dataset, reduces any problem of text synonyms, provides greater consistency and automatic checks for data integrity, easier comparison of results and quicker data searching (Maxted *et al.*, 2020). Therefore, having a full set of appropriate descriptors will help ensure effective and efficient *in situ* conservation.

The potential of the *in situ* minimum data standards for PGR conservation, will help to identify and make use of PGR materials that are currently not accessible for users. This could at least double the available germplasm available to the European PGR user community. This goal is part of the vision of the GRACE RI, "Our vision is to ensure that plant genetic resources are conserved and shared, and the associated knowledge is improved and made available for future generations." GRACE RI could help to facilitate the application of the descriptors developed here is D2.3 and thus provide existential support for in situ PGR conservation in Europe. Furthermore, through the GRACE-RI facilitation of interactions with other research infrastructures would be more feasible, allowing the sharing of data and descriptors for monitoring of *in situ* populations across domains. Collaboration with the following infrastructures could be possible; EU observatory on deforestation and forest degradation; and the Integrated European Long-Term Ecosystem, critical zone and socio-economic Research (eLTER).

There is a need to develop the consolidated *in situ* descriptor listed into an ontology. An ontology would describe the relationships between descriptors and allow the user to find information more easily, enhancing the effectiveness of data and information management for *in situ* conservation. This should usefully build upon the PGR Diversity Gateway (Škofič and Dias, 2014), which was developed in the EC funded PGR Secure project, and despite not currently being maintained, includes a detailed PGR ontology.

The consolidated *in situ* descriptor list is comprehensive but to have on-going usefulness it will require revision following practical application and subsequent periodic updating. Therefore this 2025 PRO GRACE project deliverable and associated publication should be viewed as the initial version to be replaced by improved future iterations. To be a living practical tool to aid *in situ* PGR conservation and not of pure historic and academic interest it will require amendments as the evidence gained from practical application accrues, which implies changes to the full list and those identified as the minimum descriptor set appropriate or required for each for application. Application should be at the regional and national levels.

Currently the data and information included in EURISCO are being expanded to include those specifically related to facilitating use of *in situ* conserved CWR resources based on the descriptors proposed by van Hintum and Iriondo (2022)<sup>2</sup>. Characterisation and evaluation descriptors are also being included in EURISCO, and these could relate equally to either *ex situ* or *in situ* conserved resources. However, the question is what further descriptors listed here should also be included in EURISCO alongside the existing *in situ* 28 descriptors? Which of the other descriptor category sets included in the consolidated *in situ* descriptor list (Annex 1) might also usefully be made available via EURISCO and those not, which might usefully be made available via another ECPGR associated online database? These issues require further discussion between the ECPGR Doc&Info, CWR and On-farm WGs and such discussion should be a priority action. This is because practical *in situ* conservation application for CWR populations on a broader scale, at national and regional level, appears imminent

<sup>&</sup>lt;sup>2</sup> A minor amendment was agreed with the authors concerning the addition of genetic reserves to descriptor 21: Site Protection.

due to the EC funding of three research projects in this topic through Horizon Europe Research and Innovation Programme (Table 2).

Table 2. The three projects funded by the EC Horizon Europe Research and Innovation Programme, which are related to CWR conservation and use.

Project name	Project Aim	Crop Group	Coordinator	Website
Cousin: CWR utilization and conservation for sustainable agriculture	Identify pathways to use CWR to strengthen sustainable agriculture; Recognize preferred in situ genetic reserves; Determine stakeholder-demanded characteristics of CWR; Implement promote use of CWR into breeding and farming activities, Provide information about CWR in an accessible format to stakeholders and potential users; Train and raise awareness about the value of CWR in the society.	Wheat, barley, pea, lettuce, Brassicas	Christian Schöb	https://cousin project.eu/
PRO-WILD: Protect and promote CWR	In situ conservation, which involves the characterization and protection of genetic resources in their natural habitats;  Ex situ conservation, to propagate, conserve, and catalogue CWR outside their natural environments with the goal of safeguarding their genetic material; Pre-selection activities through which it aims to identify desirable traits of CWRs and incorporate them into in elite breeding programs to improve the genetic diversity and resilience of cultivated crops.	Wheat, sugar beet and oilseed rape	Jacques Le- Gouis	https://www. pro-wild.eu
FRUITDIV: Sustainable agriculture to preserve nature's treasures	Monitoring CWR in European gene banks; Characterizing CWR genetically; Share and develop new high-throughput phenotyping tools; Integrate CWR into plant genetic resource collections and breeding programs; Promote sustainable data sharing; develop pre-selection material and selection methodologies adapted to CWR; Foster more efficient and sustainable PGR conservation and use of first-generation pre-selection material.	on pome ( <i>Ma</i>	Veronique Decroocq	https://fruitdi v.eu

Although the three projects each focus on a narrow subset of European crops, they each recognize the need to "Provide information about CWR in an accessible format to stakeholders and potential

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users" and therefore, the consolidated *in situ* descriptor list will help them achieve their aims in an effective and efficient way. It would be beneficial for the ECPGR CWR WG to establish an active dialogue with the Cousin, PRO-WILD and FRUITDIV projects to discuss how the *in situ* descriptor might be used in their project and any other mutually beneficial collaboration might be developed.

With the funding of the 'Extension of EURISCO for CWR *in situ* data and preparation of pilot countries' data sets' in several countries (Albania, Bulgaria, Cyprus, Czech Republic, Georgia, Germany, Italy, Lithuania, The Netherlands, Poland, Portugal, Romania, Slovenia, Spain, and the United Kingdom) and the production of the initial iteration of the consolidated *in situ* descriptor list there is a need for capacity building for users (both *in situ* and *ex situ* practitioners) around training on how to use and apply these descriptors, their value and importance for conservation of PGR. Such training might be offered jointly by the ECPGR Doc&Info, CWR and On-farm WGs.

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# Annex 1. Consolidated In Situ PGR Descriptor Lists

See associated EXCEL table containing the Consolidated *In Situ* PGR Descriptor Lists (Phillips, J., *et al.*, 2025)





#### Plant Genetic Resource in situ descriptors v1

Zdunic, G.

January 2025

#### Overview

This document was created as part of Deliverable 2.3 in the EC funded project PRO-GRACE.

#### What this file contains

WORKSHEET [All descriptors]

et al., 2016); GR = in situ genetic reserve criteria (Iriondo, J., et al., 2022) - please note these are not full lists of descriptors for each of these categories.

WORKSHEET [Minimum\_required\_in\_situ\_descriptors]

This worksheet contains the same columns as the worksheet [All\_descriptors], but only contains those descriptors which are considered the minimum required for in situ PGR conservation.

WORKSHEET [All\_descriptors\_references]

are able to see where the descriptors originated from and the original descriptions that were used from those sources.

WORKSHEET [ADM\_fields\_per\_country]
(www.gadm.org).

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Descriptor	Descriptor	Descriptor	Description	CWR	LR	WHP	Minimum	RL = red listing; LRT
category	level (taxon / population)	Descriptor	Description	descripto r	descripto r	descripto r	descriptors	RL = red listing; LR1 = landrace threat assessment; IN = in situ network criteria; GR = in situ denetic reserve
Data management identifiers	Taxon / Population	NI_CODE	National Inventory code: Code identifying the National Inventory; the Three-letter ISO 3166-1 code of the country preparing the National Inventory. Exceptions are possible if agreed with EURISCO, such as NGB.  Example: NLD	Х	X	X	Х	
Data management identifiers	Taxon / Population	NI_NAME	National Inventory Name. Name of the national inventory	Х	X	X	X	
Data management identifiers	Taxon / Population	NI_URL	National Inventory URL: Include like to the National Inventory	х	X	Х		
Data management identifiers	Taxon / Population	NC_URL	National Checklist URL: Include link to the National Checklist	х	X	X		
Data management identifiers	Taxon / Population	RI_CODE	Regional Inventory Code. Code identifiying the regional inventory the taxon occurs in. The code is composed of the M49 region name, the M49 region code from https://unstats.un.org/unsd/methodology/m49/, the edition of the Checklist and the year. Example: Europe_150_001_2024. Possible regions and codes are:  Africa 002  Americas 019  Antartica 010  Asia 142  Europe 150  Oceania 009  New region codes may be used if region not listed in M49 list.	X	x	x		
Data management identifiers	Population	PUID	In situ DOI. Any persistent, unique identifier assigned to the in situ population so it can be unambiguously referenced at the global level and the information associated with it harvested through automated means. Report one INSITUDOI for each CWR in situ population that the National Focal Point considers as long-term available sources of germplasm (e.g. the population is being monitored and potentially available under the terms of the MLS). Note: for ex situ accessions the ACCEDOI or ACCENUMB is used as a unique identifier.	х	х	Х	Х	
Data management identifiers	Population	POPID	Population identifier. The identifier (sequential number or code) that the National Inventory uses to identify each population. Each distinct population should be given a population unique identifier.	х	Х	х	Х	
Passport data	Taxon	FAMILY	Family. Family name for taxon in latin. Initial uppercase letter required.	Х	Х	Х		
Passport data	Taxon	GENUS	Genus. Genus name for taxon, in Latin. Initial uppercase letter required. Example 1: Vigna Example 2: Vicia	Х	Х	Х	х	

Decement data	Tavan	SPECIES	Consider Consider anish at naution of the asignatific manner in Latine in Lauren and Latters	Х	x	X	Х	
Passport data	Taxon	SPECIES	Species. Specific epithet portion of the scientific name, in Latin, in lower case letters. Example 1: unguiculata Example 2: faba	^	^	^	^	
Passport data	Taxon	SPAUTHOR	Species authority. The authority for the species name. Example 1: (L.) Wald.	Х	Х	Х	Х	
Passport data	Taxon	SUBRANK_1	Subrank. The following abbreviations are foreseen for the rank: 'subsp.' (for subspecies); 'convar.' (for convariety); 'var.' (for variety); 'f.' (for form). Example: subspecies; subsp	X	X	X	Х	
Passport data	Taxon	SUBTAXA_1	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters). Rank is recorded in SUBRANK. Example: sesquipedalis	Х	X	X	Х	
Passport data	Taxon	SUBTAUTHOR_1	Subtaxon authority. The subtaxa authority at the most detailed taxonomic level. Example 1: (L.) Verdc. Example 2: (hort. ex Alef.) Mansf.	Х	X	X	Х	
Passport data	Taxon	SUBRANK_2	Subrank. The following abbreviations are foreseen for the rank: 'subsp.' (for subspecies); 'convar.' (for convariety); 'var.' (for variety); 'f.' (for form), 'Group' (for cultivar group). Example: variety	Х	Х	Х	Х	
Passport data	Taxon	SUBTAXA_2	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters). Rank is recorded in SUBRANK. Example: minuta	Х	X	X	Х	
Passport data	Taxon	SUBAUTHOR_2	Sbtaxon authority. The subtaxon authority at the specified subspecific rank level.	Х	Х	X	Х	
Passport data	Taxon	SUBRANK_3	Subrank. The following abbreviations are foreseen for the rank: 'subsp.' (for subspecies); 'convar.' (for convariety); 'var.' (for variety); 'f.' (for form), 'Group' (for cultivar group). Examples: subvariety, forma, subforma	х	X	Х		
Passport data	Taxon	SUBTAXA_3	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters). Rank is recorded in SUBRANK. Examples: name of a subvariety, name of forma, name of subforma	х	X	X		
Passport data	Taxon	SUBAUTHOR_3	Subtaxon authority. The subtaxon authority at the specified subspecific rank level.	Х	Х	Х		
Passport data	Taxon	TAX_REF	Taxon reference. Taxonomy reference used, if known and applicable.					
Passport data	Taxon	SYNONYMS	Synonyms. Synonym(s) of the taxon, in Latin. Enter the synonym along with the repository it is listed in i.e Repository:Synonym. Multiple names are separated by a semicolon (;) without space. Enter 'NA' (not applicable) or 'Unknown' if there are no synonyms or if synonym was not checked.	X	X	X		
Passport data	Taxon	COMMON_NAME	Name(s) of the taxon in colloquial language (if applicable). Multiple entries are separated by a semicolon (;) without space. If no common name is known, enter 'Unknown'. (https://npgsweb.arsgrin.gov/gringlobal/taxon/abouttaxonomy.aspx? chapter=common). Name(s) of the taxon (including landraces and wild harvest plants) in colloquial language (if applicable). Multiple entries are separated by a semicolon (;) without space. If no common name is known, enter 'Unknown'.	Х	Х	X		
Passport data	Taxon	COMMON_NAME_LAN	Language of common name. Language of common name (Standard: ISO 639-2; https://www.iso.org/iso-639-language-codes.html; http://www.loc.gov/standards/iso639-2/php/code_list.php). Provide the ISO code. Multiple values are separated by a semicolon (;) without space.	Х	Х	X		
Passport data	Taxon	IMAGE	Image. Photo or illustration of the taxon	Х	Х	Х	х	

					1			
Passport data	Taxon	TAXON_REMARKS	Taxon remarks. Additonal remark(s) regarding taxon descriptors, including any unique taxon identifiers (which should be added as "Repository:TaxonIdentifier") or clarifications. Prefix remarks with the field name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	X	X	X	X	
Passport data	Taxon	CROP_NAME	Related crop. The scientific name(s) of the crop(s) to which the taxon is related, in Latin. Multiple values are separated by a semicolon (;) without space. The use of GRIN Taxonomy is recommended: https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearchcwr. Common name of the crop. Example: 'buckwheat'. In order to increase the comparability of data from different conservation sites/organisations, it is recommended to use the common names as provided by GRIN Taxonomy	X	X	x	X	
Passport data	Taxon	CROP_USE	Crop use. The use type(s) of the crop(s) to which the taxon is related.	х	Х	Х		
Passport data	Taxon	CROP_USE_REF	Crop use reference. The reference(s) used for identifying the crop use. This could be a link to website or a reference to a document	х	Х	x		
Passport data	Taxon	CONCEPT_TYPE	Concept type(s). Concept type(s) to which the taxon belongs (see Maxted et al., 2006). Permitted values are: Gene Pool, Taxon Group, and Unknown. Multiple values are separated by a semicolon (;) without space and should correspond to those entries in RELATED_CROP.	X	X	X		
Passport data	Taxon	CONCEPT_LEVEL	Concept level(s). Concept level(s) to which the taxon belongs (see Maxted <i>et al.</i> , 2006). Permitted values are: 1A, 1B, 2, 3 (for both Gene Pool and Taxon Group), 4, 5 (for Taxon Group only), and Unknown. Multiple values are separated by a semicolon (;) without space and should correspond to those enteries in RELATED_CROP and CONCEPT_TYPE.	Х	X	X		
Passport data	Taxon	CONCEPT_REF	Concept reference(s). The reference(s) for the applied Gene Pool or Taxon Group concept. Multiple entries are separated by a semicolon (;) without space and should correspond to those entries in RELATED_CROP, CONCEPT_TYPE and CONCEPT_LEVEL	Х	X	X		
Passport data	Taxon	GENE_POOL_REMARKS	Gene pool remarks. Additional remarks regarding the taxon Gene Pool or Taxon Group. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	Х	X	X		
Passport data	Taxon	MATE_SYSTEM	Mating system. The mating system of the taxon. Permitted values are: Allogamous, Autogamous, Unknown. Multiple values are allowed, seperated by a semi-colon (;)	х	Х	Х		
Passport data	Taxon	REP_SYSTEM	Reproductive system. Permitted values are: Allogamous, Autogamous, Mixed mating, Clonal, Unknown.  Multiple values are allowed, seperated by a semi-colon;	Х	X	Х		
Passport data	Taxon	SEX_STRUCT	Sex structure. The sex structure of the taxon. Permitted values are: Hermaphrodite, Monoecy, Andromonoecy, Gynomonoecy, Polygamomonoecy, Dioecy, Androdioecy, Gynodioecy, Polygamodioecy, Apomictic, Other, and Unknown.	х	х	Х		
Passport data	Taxon	POLLINATION	Pollination. The pollination method(s) of the taxon. Permitted values are: Ants, Bats, Bees (and other flying Hymeoptera), Beetles, Birds, Butterflies and moths (and other Lepidoptera), Flies (and other Diptera), Moths, Wind, Water, Other, Unknown, and Not applicable. Multiple values are separated by semicolons (;) without space.	Х	X	X		

Passport data	Taxon	LIFE_FORM	Life form. The life form of the taxon. Permitted values are: Phanerophytes, Nanophanerophytes, Herbaceous phanerophytes, Chamaephytes, Hemicryptophytes, Geophytes, Therophytes, Epiphytes, Helophytes, Hydrophytes, and Unknown.	Х	X	X		
Passport data	Taxon	LIFE_SPAN	Life span. The life span of the taxon. Permitted values are: Annual, Perennial, Biennial, Annual and Biennial (for combined forms) and Unknown.	Х	х	Х		
Passport data	Taxon	SEED_DISPERSAL	Seed dispersal. The seed dispersal mechanism of the taxon. Permitted values are: Animal (zoochory), Wind (anemochory), Water (hydrochory), Methods originating from the parent plant or diaspore (autochory), Unassisted (barochory), Dispersal prevented (atelochory, antitelochory), Unknown, and Not applicable.	Х	X	X		
Passport data	Taxon	CHROMOS_NUM	Chromosome number. The chromosome number(s) of the taxon. Multiple values are separated by a semicolon (;) without space.	Х	х	Х		
Passport data	Population	GEN_TIME	Generation time. Number of years from germination to maturity for the population being sampled or surveyed.	х	X	X		
Passport data	Taxon	HABIT	Growth habit. Most common growth habit of the taxon. 10 Herb 15 Vine 20 Shrub 30 Tree	х	Х	X		
Passport data	Taxon	BIOLOGY_REMARKS	Remarks on biology. Additional remarks regarding the biology of the taxon. Prefix remarks with the descriptor name they refer to and follow by a colon (;). Remarks referring to different descriptors are separated by semicolons (;) without space.	х	Х	Х		
Passport data	Population	FL_CODE	Flowering status. Are there individuals in flower?  1 = in flower or in bud; 0 = not in flower or in bud. NA is applicable when there is no information available.	Х	Х	X		
Passport data	Population	FR_CODE	Fruiting status. Are thre individuals in fruit or seed?  1 = in fruit or in cones, or with seeds; 0 = not in fruit or in cones, without seeds. NA is applicable when there is no information available.	Х	Х	X		
Passport data	Taxon	SEED_DORMANCY	Seed dormancy. Is seed dormancy detected in this species? Yes or No. Seed dormancy is important in the formation of a soil seed bank and influences their dispersal and therefore conservation.	х	х	Х		
Passport data	Taxon	SEED_DORMANCY_REF	Seed dormancy reference. References related to seed dormancy if detected.	Х	Х	Х		
Ecogeographic survey	Population	ORIGCTY	Country of Occurrence. Country where the CWR population was observed or inventoried. Use the Three-letter ISO 3166-1 code of the country where the site is located.	х	х	Х	Х	
Ecogeographic survey	Population	SITE_NAME	Site name. The name of the <i>in situ</i> maintenance site where the material is found or was collected from. Should only be filled in if no FAO WIEWS code exists. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be pubically available if not approved by the population miantainer of the material / site / population.	x	X	X		

Ecogeographic survey	Population	SITE_ID	Site identification. The <i>in situ</i> site identification code. This should be unique to the site and decided by the surveyor. Multiple popoulations may have the same SITE_ID.	X	X	X		
Ecogeographic survey	Population	SITEADDRESS	Site address. The <i>in situ</i> site maintenance address where the material is found or was collected from. This is more appropriate for areas under cultivation. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be pubically available if not approved by the population miantainer of the material / site / population.	х	Х	X		
Ecogeographic survey	Population	ADM1	Administration level one. Name of the primary administrative subdivision of the country where the site is located, or where the population was collected from. Free text.  Example: Umbria Region Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	х	x		
Ecogeographic survey	Population	ADM2	Administration level two. Name of the secondary administrative subdivision (within the primary administrative subdivision) of the country where the site is located, or where the population was collected from. Free text.  Example: Perugia Province Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	X	х	X		
Ecogeographic survey	Population	ADM3	Administration level three. Name of the third administrative division where the site is located or where the popualtion was collected from. Free text.  Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	Х	X		
Ecogeographic survey	Population	ADM4	Administration level four. Name of the fourth administrative division where the site is located or where the population was collected from.  Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	Х	X		
Ecogeographic survey	Population	OCCURSITE	Occurrence site. Location information below the country level that describes the site where the population sample was observed, inventoried, preferably in English. This might include the distance in km and direction from the nearest town, village or map grid reference point, (e.g. 7km south of Curitiba in the state of Parana).	Х	Х	X	Х	

Ecogeographic survey	Population	DECLATITUDE	Decimal degrees latitude.  Latitude of the site expressed in decimal degrees. Positive values are North of the Equator; negative values are South of the Equator (e.g., -44.6975).	х	X	X	X	
Ecogeographic survey	Population	DECLONGITUDE	Decimal degrees longitude Longitude of the site expressed in decimal degrees. Positive values are East of the Greenwich Meridian; negative values are West of the Greenwich Meridian (e.g., -120.9123).	X	X	X	X	
Ecogeographic survey	Population	COORDUNCERT	Coordinate uncertainity [m]. Uncertainity assoicated with the coordinates in meters. Leave the value empty if the uncertainity is unknown	Х	Х	Х	Х	
Ecogeographic survey	Population	ELEVATION	Elevation. Elevation of the occurrance site expressed in meters above sea level e.g. the centrum height of height range. Negative values are allowed	х	X	X	X	
Ecogeographic survey	Population	POP_AREA	Population area. Area of population being assessed (ha)	х	Х	X	х	
Ecogeographic survey / In situ networking	Taxon	DIST_STATUS	Distribution status. The distribution status of the taxon within the geographic area of the checklist or inventory. Note: 'Regional' is defined here as a geographic area comprising different countries (e.g. Europe, the Mediterranean region, the SADC region, Sub-Saharan Africa, Mesoamerica) rather than a sub-unit within a country (Magos Brehm et al., 2017).  10 Native  11 National endemic  12 Regional endemic  20 Introduced  30 Archeophyte  40 Neophyte  90 Unknow  99 Other (elaborate in REMARKS)  This descriptor is useful for IUCN red listing.	x	x	x	х	RL, IN
Ecogeographic survey	Taxon	DIST_REF	Distribution reference. The reference(s) to the information source(s) describing the distribution of the taxon. Multiple references are separated by a semicolon (;) without space.	Х	Х	X	Х	
Ecogeographic survey	Taxon	DIST_REMARKS	Distribution remarks. Additonal remarks regarding the taxon distribution. Prefix remarks with the field name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by a semicolons (;) without space.	Х	Х	X	Х	
Data management identifiers / In situ networking	Population	MAINTAINER_CODE	Maintainer code: FAO WIEWS code of the institution responsible for, and/or organization or individual, that holds rights or is responsible for the <i>in situ</i> population (e.g. farmer, protected area authority, nature reserve manager, national park manager, private landowner, etc.). The codes consist of the Three-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from http://www.fao.org/wiews. Research organisations can use codes from https://ror.org/.	X	X	x	х	IN
Data management identifiers	Population	MAINTAINER_CODE_REF	Reference use for the MAINTAINER_CODE. i.e. "FAO WIEWS"	Х	Х	Х	Х	

Data management identifiers / In situ networking	Population	MAINTAINER_NAME	Maintainer name: Name of the institute, organisation or individual that holds rights or is responsible for the <i>in situ</i> population. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be pubically available if not approved by the population miantainer of the material / site / population.	х	x	x	X	IN
Data management identifiers	Population	MAINTAINER_ADDRESS	Maintainer address: Managing institute, organisation or individual individual address related to MAINTAINER_CODE or MAINTAINER_NAME. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be pubically available if not approved by the population miantainer of the material / site / population.	X	X	X	X	
Data management identifiers / In situ networking	Population	MAINTAINER_ID	Maintainer ID. Unique number identifier of the maintainer of the <i>in situ</i> population. It is assigned by the institute that is responsible at the national level for the production of the inventory database. It is suggested that any personally identifiying data that is subject to GDPR should be kept in a seperate database and not made public. The MAINTAINERID should correspond to the seperate database]	Х	Х	х		IN
Data management identifiers	Population	MAINTAINER_AGE	Maintainer age. Age of the person who maintains the <i>in situ</i> population, in years. Use the appropriate code below:  10 less than or equal to 25  20 Age between 26 to 40  30 Age between 41 to 55  40 Age between 56 to 69  50 Age 70 or above		X	X		LRT
Data management identifiers	Population	MAINTAINER_T	Maintainer tenancy of the land. Multiple options are allowed and should be seperated by semicolons (;) without space.  10 Owner  20 Tenant  30 Life tenant  40 Cultivating public land  50 Managing land only  99 Other (elaborate in REMARKS)	x	X	x	X	
Data management identifiers	Population	INSITU_ACCESS	In situ access. Access to the in situ resource from the site being surveyed. How can the resource be accessed?  10 Via a genebank accession  20 Direct from wild in situ source  30 Direct from on-farm source	Х	х	х	X	
Utilisation / In situ networking	Population	MLSSTAT_INSITU	Multilateral System status of the <i>in situ</i> material. The status of the PGRFA with regard to the Multilateral System of Access and Benefit-Sharing (MLS) of the international Treaty on PGRFA. Applicable if there is direct access to the in situ material.  Leave the value empty if the status is not know.  0 No (not available under the MLS)  1 Yes (available under the MLS)  99 Other (elaborate in REMARKS field, e.g. 'under development')	x	х	x	X	IN, GR

Data management identifiers	Population	LIAISONCODE	Liasison institute code. FAO WIEWS code of the institution that can liaise between the organization managing the CWR population and the interested user. Research organisations can use codes from https://ror.org/. For those institutes not yet having a FAO WIEWS code, or for those with 'obsolete' codes, see section 'General formatting rules'	X	X	X	x	
Data management identifiers	Population	LIAISONNAME	Liaison institute name. Name, and brief address, of the institution that can liaise between the organization managing the CWR population and the interested user.	Х	Х	х	Х	
Ecogeographic survey	Population	OBSDATE	Observation date [YYYYMMDD]: The most recent date the <i>in situ</i> population was observed, where YYYY is the year, MM is the month and DD is the day. Missing data (MM or DD) should be indicated with hyphens or '00' [double zero]. (e.g. 2024-06-10)	Х	Х	Х	Х	
Ecogeographic survey	Population	FIRST_OBSDATE	First observation date. Date [YYYYMMDD] of the first observation of the <i>in situ</i> popoulation and its inclusion into the nationa inventory. This may be the same as the OBSDATE if it is the first time recording the popoulation.	х	X	X	Х	
Ecogeographic survey	Population	PRESENCE_IN_PA	Presence in a protected area. Indicate whether the population is known to be present in a protected area. This can include the whole population or just part of a population. 10 Present in a protected area 20 Not present in a protected area	X	Х	Х	X	GR
Ecogeographic survey	Population	PA_NAME	Protected area name. Name of protected area the surveyed or sampled population is found within. Only applicable if the population being surveyed is within a PA	х	Х	Х	Х	GR
Ecogeographic survey	Population	PA_CODE	Protected area code. Code of protected area, if available	Х	Х	Х	х	GR
Ecogeographic survey / In situ networking	Population	SITEPROT	Site protection. Indicate whether the site is under any legal or offical legislation. Following these guidelines: https://portals.iucn.org/library/node/30018  0 No (not protected)  1 Strict nature reserve 2 Wilderness area 3 National park 4 Natural monument or feature 5 Habitat/species management area 6 Protected landscape/seascape 7 Protected area with sustainable use of natural resources 8 Other effective conservation measures (OECM) This descriptor is useful for IUCN red listing.	x	X	X	X	RL, GR
<i>In situ</i> networking	Population	INSITU_NET	In situ network. Is the population / site part of an in situ network. Yes/No	х	х	х	Х	IN
<i>In situ</i> networking	Population	INSITU_NET_SCALE	Scale of <i>in situ</i> network. What geogrpahic scale of a network does it belong too? Local / National / Regional / Global	х	Х	Х		IN
Monitoring	Population	INSITU_MON_ORG	In situ monitoring organisation. Organisation/s responsible for the demographic monitoring of the <i>in situ</i> population. Multiple values seperated by a semicolon.	Х	X	X	х	GR

Monitoring	Population	INSITU_MON_INT	Demogaphic monitoring interval. How often the population is monitored, in years. Include information on demographic monitoring and genetic diversity monitoring e.g. demographic:5 years; genetic:15 years. Leave blank if not monitored	х	X	X	X	GR
Monitoring / In situ networking	Population	INSITU_GENETIC_MON	In situ genetic monitoring. Is there any in situ genomic genetic diversity monitoring taking place on the population? Yes/No	Х	Х	Х	Х	IN, GR
Monitoring / In situ networking	Population	INSITU_GENETIC_MON_UR	In situ genetic monioring URL. Include links to genetic diversity monitoring plans related to the in situ population	х	Х	Х	х	IN, GR
Monitoring / In situ networking	Population	INSITU_GENETIC_TREND	Population trend. Measured according to the IUCN classification: 10 Increasing 20 Decreasing 30 Stable 99 Unknown This descriptor is useful for IUCN red listing.	х	Х	Х		GR
Monitoring / In situ networking	Population	THREAT_INSITU	Threat to the <i>in situ</i> population. List any threats apparent to the <i>in situ</i> population, using the IUCN threats classification scheme. Main threats listed below with more information here: https://www.iucnredlist.org/resources/threat-classification-scheme. 01 Residential and commercial development 02 Agriculture and aquaculture 03 Energy production and mining 04 Transportation and service corridors 05 Biological resource use 06 Human intrusions and disturbance 07 Natural system modifications 08 Invasive and other problematic species, genes, diseases 09 Pollution 10 Geological events 11 Climate change and sever weather 99 Other (elaborate in REMARKS)	X	X	X	X	RL
Monitoring	Population	SAMPSTAT_INSITU	Biological status of the <i>in situ</i> population. The coding scheme proposed can be used at different levels of detail, either by using the general codes (in boldface), such as 100 or 200, or by using the more specific codes such as 110, 120 or 130. 100 Wild 110 Natural 120 Semi-natural/wild 130 Semi-natural/sown 200 Weedy 999 Other (elaborate in REMARKS field)	x	х	х	X	

Monitoring / In situ networking	Population		Number of individuals in the <i>in situ</i> popuation (being assessed). See codes below 001 - 1 to 50 005 - 51 to 150 010 - 151 to 300 025 - 301 to 500 050 - 501 to 750 060 - 751 to 1,000 070 - 1,001 or more This descriptor is useful for IUCN red listing.	X	X	X	X	RL, LRT, GR
Monitoring / In situ networking	Population	NUM_MAT_IND	Number of MATURE individuals in the <i>in situ</i> popuation (being assessed). See codes below 001 - 1 to 50 005 - 51 to 150 010 - 151 to 300 025 - 301 to 500 050 - 501 to 750 060 - 751 to 1,000 070 - 1,001 or more This descriptor is useful for IUCN red listing.	х		х		RL, GR
Monitoring / In situ networking	Population	NUM_INDI_REMARKS	Remarks on the number of individuals recorded. This can sometimes be difficult to interpret especially if the species is clonal, therefore provide comments if necessary. this descriptor is useful for IUCN red listing.	Х	X	Х		RL
Monitoring / In situ networking	Population	POP_TREND	Population trend. Measured according to the IUCN classification: 10 Increasing 20 Decreasing 30 Stable 99 Unknown This descriptor is useful for IUCN red listing.	Х	Х	Х		RL

Ecogeographic survey	Population	POPSRC	Status of the occurrence site. Status of the occurrence site of the population. The coding scheme proposed can be used at different levels of detail: either by using the general codes (in boldface) such as 10, 20 etc., or by using the more specific codes, such as 11.12, etc. Multiple vlaues are seperated by a semicolon without space.  10) Wild habitat  11) Forest or woodland  12) Shrubland  13) Grassland  14) Desert or tundra  15) Aquatic habitat  20) Farm or cultivated habitat  21) Field  22) Orchard  23) Backyard, kitchen or home garden (urban, peri-urban or rural)  24) Fallow land  25) Pasture  28)Park  60) Weedy, distrubed or ruderal habitat  61) Roadside  62) Field margin  99) Other (Elaborate in REMARKS field)	X	X	X	X	
Ecogeographic survey	Population	HABITAT_OTHER	Other habitat. If used, a different habitat classification to the site than POPSRC.	Х	х	Х		
Ecogeographic survey	Population	HABITAT_OTHER_REF	Reference for the HABITAT_OTHER. Include a reference or URL to the different classification used if HABITAT_OTHER was used.	Х	Х	Х		
Ecogeographic survey	Population	DOM_PLANT_SPP	Dominant plant species. What are the dominant or keystone plant species at the site? (Excluding the population being assssed)	Х	Х	Х		
Ecogeographic survey	Population	VEGETATION_HEIGHT	Vegetation height. What is the dominant height of the vegetation surrounding the population: 010 - Less than 10cm 020 Between 10cm and 30cm 030 Between 30cm to 100cm (1m) 040 Between 100cm (1m) and 200cm (2m) 050 Between 200cm (2m) to 500cm (5m) 060 Above 500cm (5m)	х	X	х		
Ecogeographic survey	Population	ROCK_TYPE	Rock type. Dominant type of rock at the site: 10 Igneous 20 Metamorphic 30 Sedimentary	Х	X	Х		
Ecogeographic survey	Population	SOIL_DOM	Soil dominant type. What is the dominant soil type at the site?  10 Acidic  20 Alkaline  30 Neutral  90 Unknown	Х	X	Х		

Ecogeographic survey	Population	SOIL_DETAIL	Soil details. Include further details about the soil type, such as colour, salinity, depth etc. Referencing the World Reference base for Soils, if appropriate: <a href="https://www.isric.org/explore/wrb">https://www.isric.org/explore/wrb</a>	X	X	X	
Ecogeographic survey	Population	WATER_AVAIL	Water availability. 10 Rain-fed 20 Irrigated 30 Flooded 40 River bank 50 Sea coast 99 Other (specify in appropriate section's Notes)	X	x	X	
Ecogeographic survey	Population	SITE_ASPECT	Site aspect. What is the aspect of the site?  10 North  11 North east  12 North west  20 South  21 South east  22 South west  30 East  40 West  90 No dominant aspect  99 Other (elaborate in REMARKS)	x	X	x	
Ecogeographic survey	Population	TOPOGRAPHY	Topography. The profile levation of the land surface on a braod scale (FAO1990)  10 Flat 0 – 0.5%  20 Almost flat 0.6 – 2.9%  30 Gently undulating 3 – 5.9%  40 Undulating 6 – 10.9%  50 Rolling 11 – 15.9%  60 Hilly 16 – 30%  70 Steeply dissected >30% moderate elevation range  80 Mountainous >30% great elevation range (>300 m)  99 Other	x	x	X	
Ecogeographic survey	Population	LANDFORM	Landform. The shape of the land surface in the area in which collecting site is located (FAO 1990) 1 Plain 2 Basin 3 Valley 4 Plateau 5 Upland 6 Hill 7 Mountain	X	X	X	

Ecogeographic survey	Population	LAND_ELEMENT	Land element. Description of the geomorphology of the immediate surroundings of the collecting site (Bioversity Internation) (2007) Guidelines for the development of crop descriptor lists.)  1 Plain level 2 Escarpment 3 Interfluve 4 Valley 5 Valley floor 6 Channel 7 Levee 8 Terrace 9 Floodplain 10 Lagoon 11 Pan 12 Caldera 13 Open depression in flat or almost-flat terrain) 14 Closed depression 29 Coral reef 15 Dune 16 Longitudinal dune 17 Interdunal depression 18 Mangrove 19 Upper slope 20 Midslope 21 Lower slope 22 Ridge 23 Beach 24 Beachridge 25 Rounded sumit 27 Coral atoll 28 Drainage line (bottom position 99 Other	X	X	X	
Ecogeographic survey	Population	SLOPE	Slope. Slope angle in degrees. Example: 25	Х	Х	X	
Ecogeographic survey	Population	SLOPE_FORM	Slope form. General shape of the slope in both vertical and horizontal directions: 01 Straight 02 Concave 03 Convex 04 Terraced 05 Complex (irregular) 99 Other	X	Х	Х	
Ecogeographic survey	Population	CLIMATIC_ZONE	Climatic zone. Dominant climatic zone the population is found within at survey site. Example: Temperate	Х	х	Х	
Ecogeographic survey	Population	CLIMATIC_ZONE_REF	Climatic zone reference. Reference used for identifying the climatic zone	Х	X	X	

Ecogeographic survey	Population	LIGHT	Light. Is the population in full-sun or not? 10 Shady 15 Partial shade 20 Sunny	Х	X	X		
Ecogeographic survey	Population	POPURL	Population URL. URL linking to additional ecogeographic data about the <i>in situ</i> population.	X	X	X	х	
Managment / In situ networking	Population	CONSACTION	Population conservation actions. Conservation actions in place for the population. Indicate whether conservation actions related to the population are in place. Use the IUCN classification scheme (https://www.iucnredlist.org/resources/conservation-actions-classification-scheme) Multiple values should be seperated by a semicolon without a space.  00 No conservation actions 10 Land/water protection 20 Land/water management 30 Species management 40 Education and awareness 50 Law and policy 60 Livelihood, economic and other incentives 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	x	X	x	X	RL, IN, GR
Managment / In situ networking	Taxon	CONSACTION_TAXON	Taxon conservation actions. Conservation actions in place for the taxon. Indicate wheater conservation actions related to the taxon are in place. Use the IUCN classification scheme (https://www.iucnredlist.org/resources/conservation-actions-classification-scheme) Multiple values should be seperated by a semicolon without a space.  00 No conservation actions 10 Land/water protection 20 Land/water management 30 Species management 40 Education and awareness 50 Law and policy 60 Livelihood, economic and other incentives 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	x	x	x	x	RL, LRT
Managment	Population	CONS_URL	Conservation URL. Provide the link(s) and reference(s) related to the conservation actions (CONSACTIONPOP, CONSACTIONTAXON). Multiple entries are separated by a semicolon (;) without space.	х	Х	X	Х	
Managment	Population	CONORG	Conservation organisation. Name of the conservation organisation/s responsible for the conservation action, as described in CONSACTIONPOP and/or CONSACTIONTAXON. Free text.	х	Х	Х	Х	
Managment / In situ networking	Taxon	LEGSTATUS	Legal status: Informs whether the taxon is legally protected at the European, national or subnational levels. HD: Habitats Directive; NAT: National level; SUB: Subnational level; NLP=Not legally protected. Multiple values allowed, separated by semi-colon, without space. This descriptor is useful for IUCN red listing.	Х	Х	X		RL

Managment	Taxon / Population	CONS_REMARKS	Conservation remarks. Additional remarks regarding conservation descriptors. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space. Reference CONSACTION or CONSACTION_TAXON categories if appropriate	X	X	X	X	
Managment / In situ networking	Population	INSITU_MANAGE_INTER	Management interventions: What interventions are being done to manage the population e.g. buring, grazing	х	X	X		LRT, IN, GR
Managment	Population	INSITU_MANAGE_URL	Management URL. Any links to management plans and activties related to the <i>in situ</i> population. May be the same as CONSACTION	х	Х	Х		
Ex situ	Population	COLLSITE	Collecting site. Location information below the country level that describes where the accession was collected. This may be the same as OCCURSITE. preferable in English. This might include the distance in kilometres and direction from the nearest town, village or map grid reference point, (e.g. 7 km south of Curitiba in the state of Parana). If a smaple was not collected for <i>ex situ</i> conservation leave this field blank.	X	x	X	X	
Ex situ	Population	INSTCODE	Institute code. Code of the institute where the accession is maintained. The codes consist of the 3-letter ISO 3166 country code of the country where the institute is located plus a number. The current set of Institute Codes is available from the FAO website (http://apps3.fao.org/wiews/).	Х	Х	X	Х	
Ex situ	Population	INSTNAME	Institute name. Name of the institute, legal entity, herbarium, or individual where collected population samples are held (e.g., local or national genebank, herbarium or landowner). If the Managing institute holds the material, the holding institute name should be the same as the Managing institute	Х	Х	X	Х	
Ex situ / In situ networking	Population	ACCENUMB	Accession number. This is the unique identifier for accessions within a genebank, and is assigned when a sample is entered into the genebank collection (e.g. 'PI 113869').	Х	X	X	X	LRT, IN
Ex situ / <i>In situ</i> networking	Population	ACCEDOI	Accession DOI. This is the unique identifier for accessions or specimens collected (e.g., genebank, herbarium, etc.) and is assigned when a sample/specimen is entered into the collection. Ex situ accession DOI	х	х	Х	х	LRT, IN
Ex situ	Population	ACCEURL	Accession URL. URL linking to additional data about the ex situ accession, which isn't included above	х	Х	Х		
Ex situ / In situ networking	Population	STORAGE	Type of germplasm storage. 60 In situ wild populations 70 In situ landrace 80 In situ Wild Harvest Plant (WHP)	х	X	X	Х	LRT, IN
Monitoring / In situ networking	Taxon	NATIONAL_CAT	National red list category. The Red List category according to national criteria. CR: Critically endangered; EN: Endangered; VU: Vulnerable; NT: Near threatened; LC: Least concern; DD: Data deficient; NE: Not evaluated. NOTE: Use the most recent assessment. Enter 'NA' if no national category is used. This descriptor is useful for IUCN red listing.	х	X	х		RL, IN
Monitoring / In situ networking	Taxon	REGIONAL_CAT	Regional red list category. The regional Red List category for the taxon. CR: Critically endangered; EN: Endangered; VU: Vulnerable; NT: Near threatened; LC: Least concern; DD: Data deficient; NE: Not evaluated. NOTE: Use the most recent assessment. Enter 'NA' if no national category is used. This descriptor is useful for IUCN red listing.	х	X	X		RL, IN

Monitoring / In situ networking	Taxon	THREAT_URL	Threat URL Iink to the NATIONAL_CAT or REGIONAL_CAT for the Red List. Record information in the format "NATIONAL_CAT:REF or REGIONAL_CAT:REF" I.e. REGIONAL_CAT: https://www.iucnredlist.org/species/162327/5574104 . This descriptor is useful for IUCN red listing.	x	X	X	RL, IN
Monitoring	Population	LRCULTPER	Landrace cultivation period. The length of time the LR was cultivated on that farm as from farmer memory, i.e. cultivated for an unknown number of years, over 50 years, less than 50 years; in the latter case it can be specified the time. See codes in the table below: Code Specific code Does not answer 10 Over 50years 20 Under 50years 30 Less than 10 years ago 31 11-25 years ago 32 26-50 years ago 33		x		
Monitoring	Population	LRSTATUS	Landrace status. The status of the LR on that farm, i.e. whether inherent the farm or reintroduced in the farm as from farmer statement. For 'inherent the farm' a cultivation period over 25 years in that farm should be intended. If introduced/reintroduced from other farms it can be specified from where. See codes in the table below. To be eventually elaborated in REMARKS.  Code:  10 Does not answer  20 Inherent (should match with LRCULTPER 20 or 33)  30 Reintroduced by the family which presently cultivates the LR from a different estate belonging to the same family. Provide details under REMARKS.  40 Introduced/Reintroduced from gene bank. Provide Gene Bank name in REMARKS 50 Introduced/Reintroduced from other farms: 51 Neighbouring farm 52 Farm in the same district 53 Farm in different district/country 60 Introduced/Reintroduced from the seed market 99 Other (elaborate in REMARKS)		х		LRT
Monitoring	Population	MOD_CULT	Modern cultivars. The extent of modern cultivars grown near to the LR / CWR or WHP. 10 - 10% area 20 - 20% area 30 - 30% area 40 - 40% area 50 - 50% area 60 - 60% area 70 - 70% area 80 - 80% area 90 - 90% area. or more	x	х	х	LRT

Utilisation	Population	LRSSS	Landrace seed / propogation material supply system. From where the seed (or propagation material in general) initially came, as from farmer statement.  See codes in the table below.  Code: Informal sector 10 Own family harvest 11 Exchanges with relatives, neighbours 12 Exchanges between close villages via barter system 13 Local / regional market 14 Formal sector 20 Certified material from the seed market 21 Genebank (to be specified from which genebank in REMARKS) 22 Does not answer 30 Other (elaborate in REMARKS) 99	X		
Monitoring	Population	LRCONT	Landrace continuity. Whether the LR maintainer plans to continue to grow LR for the foreseeable future. See codes in the table below.  Undecided 10  Will stop next year 20  Will continue, but considers changing within a few years 30  Will continue as long as possible 40  Other (elaborate in REMARKS) 99	Х		LRT
Monitoring	Population	WHPCONT	Wild Harvested Plant continuity. whether the person / people harvesting the wild species plan to continue to do this.  10 Undecided  20 Will stop next year  30 Will continue, but considers changing within a few years  40 Will continue as long as possible  99 Other (elaborate in REMARKS)		Х	
Utilisation	Population	LRDISTR	Landrace distribution. Whether the LR maintainer plans to give/exchange the LR to/with other growers. If 'Yes', fields related to 'to whom' can be filled in. See codes in the table below. Yes 10 To whom: relative 11 friend or neighbour 12 another grower 13 seed/seedlings-swap event 14 plant genebank 15 No 20 Undecided 30	X		

Monitoring	Population	LRTHREATF	Loss risk as for the maintainer. Risk of losing this LR or WHP as perceived by the interviewed farmer/harvester. It helps to decide if conservation is needed and plan monitoring actions. See codes in the table below.  Does not answer/know 10  Null / scarce 20  Low 30  Medium 40  High 50  Other (elaborate in REMARKS) 99	X	X	
Monitoring	Population	LRTHREATCT	Loss risk as assessed by the surveying team: Risk of losing this LR or WHP as perceived by the team recording data. It helps to decide if conservation is needed and plan monitoring actions. See codes in the table below.  Unable to judge/assess 10  Null / scarce 20  Low 30  Medium 40  High 50  Other (elaborate in REMARKS) 99	X	X	
Utilisation	Population	MOTIVE_GH	Motivations for growing or harvesting the taxon. Agronomical traits 10 Easy/simple cultivation required 11 Precocity (early development or maturity) 12 Lateness 13 Lodging resistance 14 High yield 15 Stable yield 16 Resistance to stresses 20 Abiotic factors 21 cold 211 drought 212 high humidity 213 salinity 214 Biotic factors 22 fungal/bacterial/virus 221 insect/nematode/etc 222 Cultural and religious motivations 30 Personal affection 31 Special family ceremonies 33 Ritual or religious use of the community 34 Local fairs/festivals 35 Historical/collector/amateur interest 36 Quality traits(taste, fragrance, colour, etc.) 40 Market traits (good storability, easy transformation etc.) 50 Other (Elaborate in REMARKS) 99	X	X	

Utilisation	Population	LRSELCRI	Landrace selection criteria. The main criteria used when selecting material for propagation. See codes in the table below. Code Yield 10 Organ size 20 Taste 30 Colour 40 Shape 50 Uniformity 60 Other (Elaborate in REMARKS) 99	X		
Utilisation	Taxon	PPU	Part of the plant used. Part/s of the plant used. See codes in the table below.  Multiple choices are allowed separated by a semicolon (;) without space.  Code Entire plant 10 Branch 20 Seedling/germinated seed 30 Gall 40 Stem/trunk 50 Bark 60 Leaf 70 Flower/inflorescence 80 Fruit/infructescence 90 Seed 100 Root/corm 110 Exudate 120 Other (Elaborate in REMARKS) 999	X	X	

Utilisation	Taxon	TAXON_PROD_USE	Product use. Type of use of the product obtained from the taxon (excluding use as a genetic resources in breeding for crop improvement): if as direct product or as processed product for larger use. Multiple choices are allowed separated by a semicolon (;) without space.  As direct product 10 Food - human 11 Food - animal 12 Spice - aromatic 13 Medicinal purpose 14 Fuel 15 Ornamental purpose 16 As processed product 20 Bakery product 21 Long term storage culinary product (e.g. canned food) 22 Distillery product 23 For oil extraction 24 For textile fibers production 25 Other household goods 26 Construction material 27 Research 40 Unknown 90 Other(elaborate in REMARKS) 99		X	X	
Utilisation	Taxon	PRODEST	Main destination of the product. Where the product from the harvested plant is mainly destined for use. See codes in the table below.  Owner's household 10  Market 20  in local market 21  in district / regional markets 22  national markets 23  international sale 24  Other (elaborate in REMARKS) 99		X	X	
Utilisation	Taxon	MARKTDEMAND	Market demand. Demand for the product. See codes in the table below. Does not answer 10 Strong existing market demand 20 Growing market demand 30 Stable market demand 40 Falling market demand 50 Other (elaborate in REMARKS) 99		x	х	LRT
Utilisation	Taxon	BREED_USE	Breeding use. Description of the use the taxon has had or potentially can have in plant breeding for crop improvement, or of the traits known to exist or already donated to the crop. E.g. 'Resistance to broom rape', 'Improved protein content', 'Tolerance of water-logging', 'Bridge species for further taxon crossing'. If no breeding use is known, enter 'Unknown'.	Х	х	Х	

Utilisation	Taxon	POTENTIAL_CONFIRMED	Potential confirmed. Whether the taxon has been used to successfully improve crops, or has traits which have the potential to improve crops in the future. Permitted values are: Potential, Confirmed, and Unknown.	Х	х	X	
Utilisation	Taxon	BREED_REF	Breeding use reference. The reference(s) to the data source describing the actual or potential use of the taxon in breeding for crop improvement. Multiple references are separated by a semicolon (;) without space.	Х	х	X	
Utilisation	Taxon	BREED_RELATED_CROP	Breeding use related crop. The scientific name(s) of the crop(s), which has/have been or potentially could be improved using the CWR taxon, in Latin. Multiple entries are separated by a semicolon (;) without space.	Х	Х	X	
Utilisation	Taxon	BREED_COMMON_CROP_N AME	Breeding common crop name. The common name(s) of the crop(s) which has/have been or potentially could be improved using the CWR taxon. Multiple entries are separated by a semicolon (;) without space.	Х	Х	X	
Utilisation	Taxon	PROP_ORGAN	Propagation organ Part of the plant used for propagation. Bulb, cloves, cuttings, offshoots of he main root, root, root sprouts, scion wood, seed or tuber		Х		
Utilisation	Taxon	MULTI_ACTOR	Multiplication actors Who multiplies the material? A single person, public body or seed company		х		
Utilisation	Taxon	MAT_EX	Material exchange Multiplication material exchange among farmers/gardeners within the cultivation area. Yes/No		Х		
Utilisation	Taxon	CHARACTERIZATION	Characerization. Does the related crop have characterization descriptors? Check https://cgspace.cgiar.org/collections/835fa638-0167-4669-9532-ffc488facc94 0 NO 1 YES	Х	Х	X	
Utilisation	Taxon	CHARACTERIZATION_URL	Characterization URL. Include link to characterization documentation	Х	х	Х	
Utilisation	Taxon	USE_REMARKS	Use remarks. Additional remarks regarding the taxon uses. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	Х	Х	X	
Utilisation	Taxon	SOCIOECO_CROP	Socioeconomic crop. The common name of the crop or crop group to which the socioeconomic data is provided.	Х	Х	Х	
Utilisation	Taxon	SOCIOECO_CRITERION	Socio-economic criterion. The socioeconomic criterion used to define the value of the related crop or crop group. A number of criteria can be used, just two are listed here as examples: (i) calorific value: average annual contribution of crop/crop groups to dietary energy per capita per day over a certain period of time (e.g. last 10 years); (ii) production value: average annual production value over a certain period of time (e.g. last 10 years). Multiple values can be entered, seperated with a semicolon (;) without space	X	х	X	
Utilisation	Taxon	SOCIOECO_VALUE	Socioeconomic value. The numerical value of the socio-economic criterion described in SOCIOECO_CRITERION	Х	X	X	

Utilisation	Taxon	SOCIOECO_VALUE_UNIT	Socio-economic value unit. The numerical value unit of of the socio-economic criterion described in SOCIOECO_CRITERION. For monetary value units use the monetary standards at http://www.currency-iso.org/en/home/tables/table-a1.html to indicate the currency.	X	X	X		
Utilisation	Taxon	SOCIOECO_VALUE_LEVEL	Socioeconomic value level. The level at which the socio-economic value of the related crop or crop group in SOCIOECO_VALUE is provided. E.g. global, regional (which region), national (which country).	х	Х	Х		
Utilisation	Taxon	SOCIOECO_VALUE_REF	Socio-economic value reference. The reference(s) for the socio-economic value of the related crop or crop group. Multiple entries are separated by semicolon (;) without space.	х	Х	Х		
Utilisation	Taxon	SOCIOECO_REMARKS	Socio-economic remarks. Additional remarks regarding the socio-economic criteria, values, units or levels used. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	Х	X	X		
Utilisation	Taxon	PRODUCT_DESIG	Product designation. Type of geographical designation label PDO, PGI and other national designations		Х	Х		
Utilisation	Taxon	PRODUCT_LABEL	Product label. Type of other label or brands Commercial brand, quality label		Х	Х		
Utilisation	Taxon	TAXON_REG	Taxon register.Type of register in which the landrace or WHP is listed. 10 National register 20 Other registers		Х	Х		
Utilisation	Taxon	TAXON_PROMO	Taxon promotion. Extent of taxon promotion activities. Specific to LR and WHP Local, national or international		X	Х		
Other	Taxon / Population	REMARKS	Remarks. The remarks field is used to add notes or to elaborate on descriptors. Prefix remarks with the field name they refer to and make them follow by a colon (:). Distinct remarks referring to different fields are separated by semicolons (;) without space. Examples: The farmer often observes flower colour instability; PRODUCTUSE: chaff also used for fuel pellet and pillow filling; LRMARKTDEMAND: falling locally but growing in the district nearby.	х	x	X	X	
Other	Taxon / Population	COMMENTS	Comments. Comments on data recording issues. The surname and initials of the person making the comment should be written followed by the comment (e.g. J Magos Brehm: the record was)	х	Х	Х	X	

Descriptor category	Descriptor level (taxon, population)	Descriptor	Description	CWR descriptor	LR descriptor	WHP descriptor	Minimum descriptor s	RL = red listing; LRT = landrace threat assessment; IN = in situ network criteria; GR = in situ genetic reserve criteria
Data management identifiers	Taxon / Population	NI_CODE	National Inventory code: Code identifying the National Inventory; the Three-letter ISO 3166-1 code of the country preparing the National Inventory. Exceptions are possible if agreed with EURISCO, such as NGB.  Example: NLD	Х	Х	Х	Х	
Data management identifiers	Taxon / Population	NI_NAME	National Inventory Name. Name of the national inventory	Х	Х	Х	Х	
Data management identifiers	Population	PUID	In situ DOI. Any persistent, unique identifier assigned to the in situ population so it can be unambiguously referenced at the global level and the information associated with it harvested through automated means. Report one PUID for each CWR in situ population that the National Focal Point considers as long-term available sources of germplasm (e.g. the population is being monitored and potentially available under the terms of the MLS). Note: for ex situ accessions the ACCEDOI or ACCENUMB is used as a unique identifier.	X	X	X	X	
Data management identifiers	Population	POPID	Population identifier. The identifier (sequential number or code) that the National Inventory uses to identify each population. Each distinct population should be given a population unique identifier.	Х	х	Х	х	
Passport data	Taxon	GENUS	Genus. Genus name for taxon, in Latin. Initial uppercase letter required. Example 1: Vigna Example 2: Vicia	Х	Х	Х	Х	
Passport data	Taxon	SPECIES	Species. Specific epithet portion of the scientific name, in Latin, in lower case letters. Example 1: unguiculata Example 2: faba	Х	Х	Х	Х	
Passport data	Taxon	SPAUTHOR	Species authority. The authority for the species name. Example 1: (L.) Wald.	X	X	X	x	
Passport data	Taxon	SUBRANK_1	Subrank. The following abbreviations are foreseen for the rank: 'subsp.' (for subspecies); 'convar.' (for convariety); 'var.' (for variety); 'f.' (for form). Example: subspecies; subsp	Х	Х	Х	Х	
Passport data	Taxon	SUBTAXA_1	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters). Rank is recorded in SUBRANK. Example: sesquipedalis	Х	х	Х	Х	
Passport data	Taxon	SUBTAUTHOR_1	Subtaxon authority. The subtaxa authority at the most detailed taxonomic level. Example 1: (L.) Verdc. Example 2: (hort. ex Alef.) Mansf.	Х	Х	Х	Х	
Passport data	Taxon	SUBRANK_2	Subrank. The following abbreviations are foreseen for the rank: 'subsp.' (for subspecies); 'convar.' (for convariety); 'var.' (for variety); 'f.' (for form), 'Group' (for cultivar group). Example: variety	X	X	X	X	
Passport data	Taxon	SUBTAXA_2	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters). Rank is recorded in SUBRANK. Example: minuta	Х	х	Х	х	
Passport data	Taxon	SUBAUTHOR_2	Sbtaxon authority. The subtaxon authority at the specified subspecific rank level.	Х	Х	Х	х	
Passport data	Taxon	IMAGE	Image. Photo or illustration of the taxon	Х	Х	Х	х	
Passport data	Taxon	TAXON_REMAR KS	Taxon remarks. Additonal remark(s) regarding taxon descriptors, including any unique taxon identifiers (which should be added as "Repository:TaxonIdentifier") or clarifications. Prefix remarks with the field name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	Х	х	Х	Х	

Passport data	Taxon	CROP_NAME	Related crop. The scientific name(s) of the crop(s) to which the taxon is related, in Latin. Multiple values are separated by a semicolon (;) without space. The use of GRIN Taxonomy is recommended: https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearchcwr.  Common name of the crop. Example: 'buckwheat'. In order to increase the comparability of data from different conservation sites/organisations, it is recommended to use the common names as provided by GRIN Taxonomy	X	Х	Х	Х	
Ecogeographic survey	Population	ORIGCTY	Country of Occurrence. Country where the CWR population was observed or inventoried. Use the Three-letter ISO 3166-1 code of the country where the site is located.	Х	Х	Х	х	
Ecogeographic survey	Population	OCCURSITE	Occurrence site. Location information below the country level that describes the site where the population sample was observed, inventoried, preferably in English. This might include the distance in km and direction from the nearest town, village or map grid reference point, (e.g. 7km south of Curitiba in the state of Parana).	Х	X	X	X	
Ecogeographic survey	Population	DECLATITUDE	Decimal degrees latitude. Latitude of the site expressed in decimal degrees. Positive values are North of the Equator; negative values are South of the Equator (e.g., -44.6975).	Х	Х	Х	Х	
Ecogeographic survey	Population	DECLONGITUD E	Decimal degrees longitude Longitude of the site expressed in decimal degrees. Positive values are East of the Greenwich Meridian; negative values are West of the Greenwich Meridian (e.g., -120.9123).	Х	Х	Х	Х	
Ecogeographic survey	Population	COORDUNCERT	Coordinate uncertainity [m]. Uncertainity assoicated with the coordinates in meters. Leave the value empty if the uncertainity is unknown	Х	Х	Х	Х	
Ecogeographic survey	Population	ELEVATION	Elevation. Elevation of the occurrance site expressed in meters above sea level e.g. the centrum height of height range. Negative values are allowed	Х	Х	Х	Х	
Ecogeographic survey	Population	POP_AREA	Population area. Area of population being assessed (ha)	Х	X	X	Х	
Ecogeographic survey / In situ networking	Taxon	DIST_STATUS	Distribution status. The distribution status of the taxon within the geographic area of the checklist or inventory. Note: 'Regional' is defined here as a geographic area comprising different countries (e.g. Europe, the Mediterranean region, the SADC region, Sub-Saharan Africa, Mesoamerica) rather than a sub-unit within a country (Magos Brehm <i>et al.</i> , 2017). 10 Native 11 National endemic 12 Regional endemic 20 Introduced 30 Archeophyte 40 Neophyte 90 Unknow 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	x	X	X	X	RL, IN
Ecogeographic survey	Taxon	DIST_REF	Distribution reference. The reference(s) to the information source(s) describing the distribution of the taxon. Multiple references are separated by a semicolon (;) without space.	Х	Х	х	X	
Ecogeographic survey	Taxon	DIST_REMARKS	Distribution remarks. Additonal remarks regarding the taxon distribution. Prefix remarks with the field name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by a semicolons (;) without space.	Х	Х	Х	X	

Data management identifiers / In situ networking	Population	MAINTAINER_C ODE	Maintainer code: FAO WIEWS code of the institution responsible for, and/or organization or individual, that holds rights or is responsible for the <i>in situ</i> population (e.g. farmer, protected area authority, nature reserve manager, national park manager, private landowner, etc.). The codes consist of the Three-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from http://www.fao.org/wiews. Research organisations can use codes from https://ror.org/.	Х	X	X	х	IN
Data management identifiers	Population	MAINTAINER_C ODE_REF	Reference use for the MAINTAINER_CODE. i.e. "FAO WIEWS"	Х	Х	Х	Х	
Data management identifiers / In situ networking	Population	MAINTAINER_N AME	Maintainer name: Name of the institute, organisation or individual that holds rights or is responsible for the <i>in situ</i> population. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be publically available if not approved by the population miantainer of the material / site / population.	х	х	х	Х	IN
Data management identifiers	Population	MAINTAINER_A DDRESS	Maintainer address: Managing institute, organisation or individual individual address related to MAINTAINER_CODE or MAINTAINER_NAME. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be publically available if not approved by the population miantainer of the material / site / population.	Х	X	X	Х	
Data management identifiers	Population	MAINTAINER_T	Maintainer tenancy of the land. Multiple options are allowed and should be seperated by semicolons (;) without space.  10 Owner  20 Tenant  30 Life tenant  40 Cultivating public land  50 Managing land only  99 Other (elaborate in REMARKS)	Х	X	x	х	
Data management identifiers	Population	INSITU_ACCESS	In situ access. Access to the in situ resource from the site being surveyed. How can the resource be accessed?  10 Via a genebank accession 20 Direct from wild in situ source 30 Direct from on-farm source	Х	Х	Х	Х	
Utilisation / <i>In</i> situ networking	Population	MLSSTAT_INSIT U	Multilateral System status of the <i>in situ</i> material. The status of the PGRFA with regard to the Multilateral System of Access and Benefit-Sharing (MLS) of the international Treaty on PGRFA. Applicable if there is direct access to the <i>in situ</i> material.  Leave the value empty if the status is not know.  0 No (not available under the MLS)  1 Yes (available under the MLS)  99 Other (elaborate in REMARKS field, e.g. 'under development')	Х	х	х	Х	IN, GR
Data management identifiers	Population	LIAISONCODE	Liasison institute code. FAO WIEWS code of the institution that can liaise between the organization managing the CWR population and the interested user. Research organisations can use codes from https://ror.org/. For those institutes not yet having a FAO WIEWS code, or for those with 'obsolete' codes, see section 'General formatting rules'	х	х	х	Х	
Data management identifiers	Population	LIAISONNAME	Liaison institute name. Name, and brief address, of the institution that can liaise between the organization managing the CWR population and the interested user.	Х	Х	Х	Х	

Ecogeographic survey	Population	OBSDATE	Observation date [YYYYMMDD]: The most recent date the <i>in situ</i> population was observed, where YYYY is the year, MM is the month and DD is the day. Missing data (MM or DD) should be indicated with hyphens or '00' [double zero]. (e.g. 2024-06-10)	X	X	X	X	
Ecogeographic survey	Population	FIRST_OBSDATE	First observation date. Date [YYYYMMDD] of the first observation of the <i>in situ</i> popoulation and its inclusion into the nationa inventory. This may be the same as the OBSDATE if it is the first time recording the popoulation.	Х	X	X	X	
Ecogeographic survey	Population	PRESENCE_IN_P A	Presence in a protected area. Indicate whether the population is known to be present in a protected area. This can include the whole population or just part of a population.  10 Present in a protected area  20 Not present in a protected area	х	х	Х	X	GR
Ecogeographic survey	Population	PA_NAME	Protected area name. Name of protected area the surveyed or sampled population is found within. Only applicable if the popualtion being surveyed is within a PA	х	Х	x	Х	GR
Ecogeographic survey	Population	PA_CODE	Protected area code. Code of protected area, if available	Х	Х	Х	Х	GR
Ecogeographic survey	Population	SITEPROT	Site protection. Indicate whether the site is under any legal or offical legislation. Following these guidelines: https://portals.iucn.org/library/node/30018  0 No (not protected)  1 Strict nature reserve  2 Wilderness area  3 National park  4 Natural monument or feature  5 Habitat/species management area  6 Protected landscape/seascape  7 Protected area with sustainable use of natural resources  8 Other effective conservation measures (OECM) This descriptor is useful for IUCN red listing.	x	X	x	X	RL, GR
In situ networking	Population	INSITU_NET	In situ network. Is the population / site part of an in situ network. Yes/No	х	Х	Х	Х	IN
Monitoring	Population	INSITU_MON_O RG	In situ monitoring organisation. Organisation/s responsible for the demographic monitoring of the <i>in situ</i> population. Multiple values seperated by a semicolon.	Х	Х	Х	Х	GR
Monitoring	Population	INSITU_MON_I NT	Demogaphic monitoring interval. How often the popualtion is monitored, in years. Inlcude information on demographic monitoring and genetic diversity monitoring e.g. demographic:5 years; genetic:15 years. Leave blank if not monitored	Х	X	X	Х	GR
Monitoring / In situ networking	Population	INSITU_GENETI C_MON	<i>In situ</i> genetic monitoring. Is there any <i>in situ</i> genomic genetic diversity monitoring taking place on the population? Yes/No	Х	х	Х	Х	IN, GR
Monitoring / In situ networking	Population	INSITU_GENETI C_MON_URL	<i>In situ</i> genetic monioring URL. Include links to genetic diversity monitoring plans related to the in situ population	Х	Х	Х	Х	IN, GR

Monitoring	Population	THREAT_INSITU	Threat to the <i>in situ</i> population. List any threats apparent to the <i>in situ</i> population, using the IUCN threats classification scheme. Main threats listed below with more information here: https://www.iucnredlist.org/resources/threat-classification-scheme.  01 Residential and commercial development 02 Agriculture and aquaculture 03 Energy production and mining 04 Transportation and service corridors 05 Biological resource use 06 Human intrusions and disturbance 07 Natural system modifications 08 Invasive and other problematic species, genes, diseases 09 Pollution 10 Geological events 11 Climate change and sever weather 99 Other (elaborate in REMARKS)	x	X	х	X	RL
Monitoring	Population	SAMPSTAT_INSI TU	Biological status of the <i>in situ</i> population. The coding scheme proposed can be used at different levels of detail, either by using the general codes (in boldface), such as 100 or 200, or by using the more specific codes such as 110, 120 or 130. 100 Wild 110 Natural 120 Semi-natural/wild 130 Semi-natural/sown 200 Weedy 999 Other (elaborate in REMARKS field)	x	x	x	х	
Monitoring	Population	NUM_IND	Number of individuals in the <i>in situ</i> popuation (being assessed). See codes below 001 - 1 to 50 005 - 51 to 150 010 - 151 to 300 025 - 301 to 500 050 - 501 to 750 060 - 751 to 1,000 070 - 1,001 or more This descriptor is useful for IUCN red listing.	x	X	х	Х	RL, LRT, GR

Ecogeographic survey	Population	POPSRC	Status of the occurrence site. Status of the occurrence site of the population. The coding scheme proposed can be used at different levels of detail: either by using the general codes (in boldface) such as 10, 20 etc., or by using the more specific codes, such as 11.12, etc. Multiple vlaues are seperated by a semicolon without space.  10) Wild habitat  11) Forest or woodland  12) Shrubland  13) Grassland  14) Desert or tundra  15) Aquatic habitat  20) Farm or cultivated habitat  21) Field  22) Orchard  23) Backyard, kitchen or home garden (urban, peri-urban or rural)  24) Fallow land  25) Pasture  28)Park  60) Weedy, distrubed or ruderal habitat  61) Roadside  62) Field margin  99) Other (Elaborate in REMARKS field)	X	X	X	X	
Ecogeographic survey	Population	POPURL	Population URL. URL linking to additional ecogeographic data about the <i>in situ</i> population.	х	х	х	Х	
Managment / In situ networking	Population	CONSACTION	Population conservation actions. Conservation actions in place for the population. Indicate whether conservation actions related to the population are in place. Use the IUCN classification scheme (https://www.iucnredlist.org/resources/conservation-actions-classification-scheme) Multiple values should be seperated by a semicolon without a space.  00 No conservation actions 10 Land/water protection 20 Land/water management 30 Species management 40 Education and awareness 50 Law and policy 60 Livelihood, economic and other incentives 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	X	X	X	X	RL, IN, GR
Managment	Taxon	CONSACTION_T AXON	Taxon conservation actions. Conservation actions in place for the taxon. Indicate wheater conservation actions related to the taxon are in place. Use the IUCN classification scheme (https://www.iucnredlist.org/resources/conservation-actions-classification-scheme) Multiple values should be seperated by a semicolon without a space.  00 No conservation actions 10 Land/water protection 20 Land/water management 30 Species management 40 Education and awareness 50 Law and policy 60 Livelihood, economic and other incentives 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	X	X	X	X	RL, LRT
Managment	Population	CONS_URL	Conservation URL. Provide the link(s) and reference(s) related to the conservation actions (CONSACTIONPOP, CONSACTIONTAXON). Multiple entries are separated by a semicolon (;) without space.	Х	Х	Х	Х	

Managment	Population	CONORG	Conservation organisation. Name of the conservation organisation/s responsible for the conservation action, as described in CONSACTIONPOP and/or CONSACTIONTAXON. Free text.	Х	X	X	X	
Managment	Taxon / Population	CONS_REMARK S	Conservation remarks. Additional remarks regarding conservation descriptors. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space. Reference CONSACTION or CONSACTION_TAXON categories if appropriate	Х	X	Х	X	
Ex situ	Population	COLLSITE	Collecting site. Location information below the country level that describes where the accession was collected. This may be the same as OCCURSITE. preferable in English. This might include the distance in kilometres and direction from the nearest town, village or map grid reference point, (e.g. 7 km south of Curitiba in the state of Parana). If a smaple was not collected for <i>ex situ</i> conservation leave this field blank.	х	Х	Х	X	
Ex situ	Population	INSTCODE	Institute code. Code of the institute where the accession is maintained. The codes consist of the 3-letter ISO 3166 country code of the country where the institute is located plus a number. The current set of Institute Codes is available from the FAO website (http://apps3.fao.org/wiews/).	Х	X	Х	Х	
Ex situ	Population	INSTNAME	Institute name. Name of the institute, legal entity, herbarium, or individual where collected population samples are held (e.g., local or national genebank, herbarium or landowner). If the Managing institute holds the material, the holding institute name should be the same as the Managing institute	Х	Х	Х	X	
Ex situ / <i>In situ</i> networking	Population	ACCENUMB	Accession number. This is the unique identifier for accessions within a genebank, and is assigned when a sample is entered into the genebank collection (e.g. 'PI 113869').	Х	Х	Х	Х	LRT, IN
Ex situ / <i>In situ</i> networking	Population	ACCEDOI	Accession DOI. This is the unique identifier for accessions or specimens collected (e.g., genebank, herbarium, etc.) and is assigned when a sample/specimen is entered into the collection. Ex situ accession DOI	х	X	X	X	LRT, IN
Ex situ / <i>In situ</i> networking	Population	STORAGE	Type of germplasm storage. 60 <i>In situ</i> wild populations 70 <i>In situ</i> landrace 80 <i>In situ</i> Wild Harvest Plant (WHP)	х	X	X	Х	LRT, IN
Other	Taxon / Population	REMARKS	Remarks. The remarks field is used to add notes or to elaborate on descriptors. Prefix remarks with the field name they refer to and make them follow by a colon (:). Distinct remarks referring to different fields are separated by semicolons (;) without space. Examples: The farmer often observes flower colour instability; PRODUCTUSE: chaff also used for fuel pellet and pillow filling; LRMARKTDEMAND: falling locally but growing in the district nearby.	х	Х	Х	X	
Other	Taxon / Population	COMMENTS	Comments. Comments on data recording issues. The surname and initials of the person making the comment should be written followed by the comment (e.g. J Magos Brehm: the record was)	Х	X	Х	Х	

All_descriptors	references																
Descriptor category	Descriptor level (taxon, population)	Descriptor	Description		LR descripto r		Minimum descriptor s	landrace threat assessment; IN = in	EURISCO, 2025. Descriptors for uploading <i>in situ</i> CWR passport data to EURISCO	Alercia et al., 2022. Descriptors for Crop Wild Relatives conserved in situ	Magos Brehm. J., et al, 2017. Occurrence data collation template V1.	2017. CWR	Moore et al., 2008. CWRML: representing CWR conservation and use data in XML	landrace propagation		Phillips, J., et al., (2025)	Other
Data management identifiers	Taxon / Population	NI_CODE	National Inventory code: Code identifying the National Inventory; the Three-letter ISO 3166-1 code of the country preparing the National Inventory. Exceptions are possible if agreed with EURISCO, such as NGB. Example: NLD	х	х	х	х		Code identifying the National Inventory; the Three-letter ISO 3166-1 code of the country preparing the National Inventory. Exceptions are possible if agreed with EURISCO, such as NGB. Example: NLD					х	X		
Data management identifiers	Taxon / Population	NI_NAME	National Inventory Name. Name of the national inventory	х	х	х	х									х	
Data management identifiers	Taxon / Population	NI_URL	National Inventory URL: Include like to the National Inventory	х	х	х										х	
Data management identifiers	Taxon / Population	NC_URL	National Checklist URL: Include link to the National Checklist	х	х	х										х	
Data management identifiers	Taxon / Population	RI_CODE	Regional Inventory Code. Code identifying the regional inventory the taxon occurs in. The code is composed of the M49 region name, the M49 region code from https://unstats.un.org/unsd/methodology/m49/, the edition of the Checklist and the year. Example: Europe_150_001_2024. Possible regions and codes are: Africa 002 Americas 019 Antartica 010 Asia 142 Europe 150 Oceania 009 New region codes may be used if region not listed in M49 list.		x	x										x	

Data	Population	PUID	In situ DOI. Any persistent, unique identifier	х	Х	х	х	PUID. Any	PUID. Any	In situ PUID.							
management identifiers			assigned to the in situ population so it can be unambiguously referenced at the global level					persistent, unique identifier assigned	persistent, unique identifier	Any persistent, unique							
identifiers			and the information associated with it					to the accession so	assigned to the								
			harvested through automated means. Report					it can be	accession so it	assigned to the							
			one PUID for each CWR in situ population that					unambiguously	can be	in situ							
			the National Focal Point considers as long-term					referenced at the	unambiguously								
			available sources of germplasm (e.g. the population is being monitored and potentially					global level and the information	referenced at the global level	can be unambiguously							
			available under the terms of the MLS). Note: for					associated with it	and the	referenced at							
			ex situ accessions the ACCEDOI or ACCENUMB					harvested through	information	the global level							
			is used as a unique identifier.					automated means.	associated with	and the							
								Report one PUID	it harvested	information							
								for each accession. The Secretariat of	through automated	associated with it harvested							
								the International	means. Report	through							
								Treaty on Plant	one PUID for	automated							
								Genetic Resources	each accession.	means. Report							
								for Food and Agriculture (PGRFA)	The Secretariat of the	one PUID for each CWR in							
								is facilitating the	International	situ population							
								assignment of a	Treaty on Plant	that the							
								persistent unique	Genetic	National Focal							
								identifier (PUID), in	Resources for	Point considers							
								the form of a DOI, toPGRFA at the	Food and Agriculture	as long-term available							
								accession level	(PGRFA) is	sources of							
								(http://www.fao.org	facilitating the	germplasm							
								/plant-treaty/areas-	assignment of a	(e.g. the							
								of-work/global-	persistent	population is							
								information- system/DOI/en/).	unique identifier (PUID), in the	being monitored and							
								Note: This	form of a DOI,	potentially							
								descriptor should	toPGRFA at the	available under							
								be assigned only to	accession level	the terms of							
								those CWR	(http://www.fao.	the MLS). Note: for ex situ							
								populations that the National Focal	org/plant- treaty/areas-of-	accessions the							
								Pointconsiders as	work/global-	ACCEDOI or							
								long-term available	information-	ACCENUMB is							
								sources of	system/DOI/	used as a							
								germplasm (e.g.	en/). Note: This descriptor	unique identifier.							
								the population is being monitored	should be	identiller.							
								and potentially	assigned only to								
								available under the	those CWR								
								terms of the MLS).	populations that								
									the National Focal								
									Pointconsiders								
									as long-term								
									available								
									sources of								
									germplasm (e.g.								
									the population is being monitored								
									and potentially								
									available under								
									the terms of the								
									MLS).								
Data	Population	POPID	Population identifier. The identifier (sequential	Х	Х	Х	Х			Population	ID. The					X	
management			number or code) that the National Inventory							identifier. The	occurrence record unique identifier –						
identifiers			uses to identify each population. Each distinct population should be given a population							identifier (sequential	it corresponds to						
			unique identifier.							number or	consecutive numbers that						
										code) that you	identify accessions						
					1					use to identify	default auto- increment. All cells						
										the	in this field must						
										population.	be filled with a code. NA code is						
										Each distinct	be filled with a code. NA code is not allowed.						
											code. NA code is						
										Each distinct population should be given a unique	code. NA code is						
										Each distinct population should be given a unique population	code. NA code is						
										Each distinct population should be given a unique	code. NA code is						
Passport data	Taxon	FAMILY	Family. Family name for taxon in latin. Initial	x	х	X				Each distinct population should be given a unique population	code. NA code is	FAMILY. Taxon					
Passport data	Taxon	FAMILY	Family, Family name for taxon in latin. Initial uppercase letter required.	X	x	X				Each distinct population should be given a unique population	code. NA code is	family, in Latin.					
Passport data	Taxon	FAMILY		x	x	х				Each distinct population should be given a unique population	code. NA code is	family, in Latin. Initial uppercase					
			uppercase letter required.	x						Each distinct population should be given a unique population identifier.	code. NA code is not allowed.	family, in Latin.					
Passport data	Taxon	FAMILY	uppercase letter required.  Genus. Genus name for taxon, in Latin. Initial	x	x	x	х	x	x	Each distinct population should be given a unique population	code. NA code is	family, in Latin. Initial uppercase	Genus	x	x		Wieczorek.
			uppercase letter required.  Genus. Genus name for taxon, in Latin. Initial uppercase letter required. Example 1: Vigna	x			x	x	х	Each distinct population should be given a unique population identifier.	code. NA code is not allowed.	family, in Latin. Initial uppercase	Genus	х	x		J., et al.
			uppercase letter required.  Genus. Genus name for taxon, in Latin. Initial	x			х	х	x	Each distinct population should be given a unique population identifier.	code. NA code is not allowed.	family, in Latin. Initial uppercase	Genus	x	x		J., et al. (2012)
			uppercase letter required.  Genus. Genus name for taxon, in Latin. Initial uppercase letter required. Example 1: Vigna	x			X	x	х	Each distinct population should be given a unique population identifier.	code. NA code is not allowed.	family, in Latin. Initial uppercase	Genus	x	x		J., et al.

			_					1	1			1						
Passport data	Taxon	SPECIES	Species. Specific epithet portion of the scientific name, in Latin, in lower case letters. Example 1: unguiculata Example 2: faba	Х	Х	Х	X		X	X	X	X	X	FirstEpithet	X	X	J. (: E	Wieczorek. I., et al. (2012) Darwin Core.
Passport data	Taxon	SPAUTHOR	Species authority. The authority for the species name. Example 1: (L.) Wald.	х	х	х	х		х	х	х	х	SPECIES_AUTH ORITY	AuthorTerm		SPAUTHOR	J. (1	Wieczorek. ., et al. (2012) Darwin Core.
Passport data	Taxon	SUBRANK_1	Subrank. The following abbreviations are foreseen for the rank: Subsp. (for subspecies); convar: (for convariety); 4." (for variety); 4." (for form). Example: subspecies; subsp	x	x	x	x					RANK1. The rank of the final accepted subtaxon epithet if there is one. FORCED STANDARDS for subsp., war. f., convar., subconvar., nothowar, nothosubsp., subforma, race, aff., cf. NA is applicable when there is no subtaxon epithet.	SUB_RANK_1. The subspecific rank (for example: subspecies, subspecies, subspecies, subspecies, subspecies, subspecies, subspecies), var. (for subspecies), var. (for subspecies), var. (for form); and 'croup' (for cultivar group)	Rank			J. (1	Wieczorek. ., <i>et al</i> . 2012) Darwin Core.
Passport data	Taxon	SUBTAXA_1	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters), Rank is recorded in SUBRANK. Example: sesquipedalis	х	х	х	х		SUBTAXA	SUBTAXA	SUBTAXA	SUBTAXA	SUB_TAXON_1. Subspecific epithet portion of the scientific name, in Latin, in lowercase letters.	SecondEpithet		x	J. (1	Wieczorek. ., et al. (2012) Darwin Core.
Passport data	Taxon	SUBTAUTHOR_1	Subtaxon authority. The subtaxa authority at the most detailed taxonomic level. Example 1: (L.) Verdc. Example 2: (hort. ex Alef.) Mansf.	х	х	х	х		SUBAUTHOR	SUBAUTHOR	SUBAUTHOR	SUB_AUTHOR	SUB_AUTHOR_1. The subtaxon authority at the specified subspecific rank level.			х		
Passport data	Taxon	SUBRANK_2	Subrank. The following abbreviations are foreseen for the rank: Subsp. (for subspecies); convar: (for convariety); ***(for variety); *f.** (for form), 'Group' (for cultivar group). Example: variety	x	x	x	х					RANK2	SUB_RANK_2. The subspecific rank (for example: subspecies, variety, form). The following abbreviations are allowed: 'subsp.' (for subspecies); var.' (for variety); 'subvar.' (for subvariety); 'f.' (for form); and 'Group' (for cultivar group)					
Passport data	Taxon	SUBTAXA_2	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters), Rank is recorded in SUBRANK. Example: minuta	х	х	х	х					SUB-SUBTAXA	SUB_TAXON_2Su bspecific epithet portion of the scientific name, in Latin, in lowercase letters.					
Passport data	Taxon	SUBAUTHOR_2	Sbtaxon authority. The subtaxon authority at the specified subspecific rank level.	х	Х	х	х					SUB- SUBTAUTHOR	SUB_AUTHOR_2. The subtaxon authority at the specified subspecific rank level.					

Passport data	Taxon	SUBRANK_3	Subrank. The following abbreviations are foreseen for the rank: 'Subsp.' (for subspecies); 'convar: (for convariety); '47: (for variety); '17: (for form), 'Group' (for cultivar group). Examples: subvariety, forma, subforma	X	x	x				SUB_RANK_3. The subspecific rank (for example: subspecies, variety, form). The following abbrewations are allowed: subsp.' (for subspecies); var.' (for variety); 'subvar.' (for or subvariety); 'f.' (for form); and 'Group' (for cultivar group)			
Passport data	Taxon	SUBTAXA_3	Subtaxa. This field can be used to an additional taxonomic identifier (in Latin, in lower case letters). Rank is recorded in SUBRANK. Examples: name of a subvariety, name of forma, name of subforma	х	х	Х				SUB_TAXON_3. Subspecific epithet portion of the scientific name, in Latin, in lowercase letters.			
Passport data	Taxon	SUBAUTHOR_3	Subtaxon authority. The subtaxon authority at the specified subspecific rank level.	х	X	х				SUB_AUTHOR_3. The subtaxon authority at the specified subspecific rank level.			
Passport data	Taxon	TAX_REF	Taxon reference. Taxonomy reference used, if known and applicable.							he taxonomic reference(s) used to identify the taxon. Multiple references are separated by a semicolon (;) without space.			
Passport data	Taxon	SYNONYMS	Synonyms. Synonym(s) of the taxon, in Latin. Enter the synonym along with the repository it is listed in i.e Repository; Synonym. Multiple names are separated by a semicolon (;) without space. Enter NA' (not applicable) or 'Unknown' if there are no synonyms or if synonym was not checked.	х	x	х				Synonym(s) of the taxon, in Latin. Multiple names are separated by a semicolon (;) without space. Enter 'NA' (not applicable) or 'Unknown' if there are no synonyms or if synonym was not checked.	Principal Synonyms		Wieczorek. J., et al. (2012) Darwin Core.
Passport data	Taxon	COMMON_NAME	Name(s) of the taxon in colloquial language (if applicable). Multiple entries are separated by a semicolon () without space. If no common name is known, enter 'Unknown'. (https://npgsweb.arsgrin, qow/gringlobal/taxon/abouttaxonomy.aspx/chapter=common). Name(s) of the taxon (including landraces and wild harvest plants) in colloquial language (if applicable). Multiple entries are separated by a semicolon () without space. If no common name is known, enter 'Unknown'.	x	x	х				Name(s) of the taxon in colloquial language (if applicable). Multiple entries are separated by a semicolon (;) without space. If no common name is known, enter 'Unknown'.	Vernacular Name		
Passport data	Taxon	COMMON_NAME_LA N	Language of common name. Language of common name (Standard: ISO 639-2; https://www.iso.org/iso-639-language-codes.html; http://www.iso.gow/standards/iso639-2/php/code_list.php). Provide the ISO code. Multiple values are separated by a semicolon (;) without space.	х	х	х				LAN_COMMON_ NAME. Language of common name (Standard: 1SO 639-2; https://www.iso. org/iso-639- language- codes.html; http://www.loc.g ov/standards/iso 639-2/php/code_l ist.php). Provide the ISO code. Multiple values are separated by a semicolon (;) without space.			

Passport data	Taxon	IMAGE	Image. Photo or illustration of the taxon	Х	Х	Х	х					Photo / Illustration		Х	
Passport data	Taxon	TAXON_REMARKS	Taxon remarks. Additonal remark(s) regarding taxon descriptors, including any unique taxon identifiers (which should be added as "Repository:TaxonIdentifier") or clarifications. Prefix remarks with the field name they refer to and follow by a colon (). Remarks referring to different descriptors are separated by semicolons (;) without space.	x	х	х	x				Additonal remark(s) regarding taxon descriptors. Prefix remarks with the field name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	mustration 1			
Passport data	Taxon	CROP_NAME	Related crop. The scientific name(s) of the crop(s) to which the taxon is related, in Latin. Multiple values are separated by a semicolon (;) without space. The use of GRIN Taxonomy is recommended: https://npgweb.ars-grin.gov/gringlobal/taxon/taxonomysearchcwr. Common name of the crop. Example: buckwheat. In order to increase the comparability of data from different conservation sites/organisations, it is recommended to use the common names as provided by GRIN Taxonomy		x	x	x		CROPNAME. Common crop name. Common name of the crop. Example: 'malting barley', 'macadamia', 'maïs'.		RELATED_CROP. The scientific name(s) of the crop(s) to which the taxon is related, in Latin. Multiple values are separated by a semicolon (;) without space.	CultivatedPlantN ame			Wieczorek. J., et al. (2012) Darwin Core. "Closest relative"
Passport data	Taxon	CROP_USE	Crop use. The use type(s) of the crop(s) to which the taxon is related.	х	х	x					CROP_USE. The use type(s) of the crop(s) to which the taxon is related according to Level 1 states adapted from Cook (1995). Multiple entries are separated by a semicolon (;) without space. E.g. Food				
Passport data	Taxon	CROP_USE_REF	Crop use reference. The reference(s) used for identifying the crop use. This could be a link to website or a reference to a document	х	х	х								х	
Passport data	Taxon	CONCEPT_TYPE	Concept type(s). Concept type(s) to which the taxon belongs (see Maxted et al., 2006). Permitted values are: Gene Pool, Taxon Group, and Unknown. Multiple values are separated by a semicolon (;) without space and should correspond to those entries in RELATED_CROP.	x	х	х					CONCEPT_TYPE. Concept type(s) to which the taxon belongs (see Maxted et al., 2006). Permitted values are: Gene Pool, Taxon Group, and Unknown. Multiple values are separated by a semicolon (;) without space. E.G. Taxon group				
Passport data	Taxon	CONCEPT_LEVEL	Concept level(s). Concept level(s) to which the taxon belongs (see Maxted et al., 2006). Permitted values are: 1A, 1B, 2, 3 (for both Gene Pool and Taxon Group), 4, 5 (for Taxon Group only), and Unknown. Multiple values are separated by a semicolon (j) without space and should correspond to those enteries in RELATED_CROP and CONCEPT_TYPE.	x	х	х					CONCEPT_LEVEL. Concept level(s) to which the taxon belongs (see Maxted et al., 2006). Permitted values are: 1A, 1B, 2, 3 (for both Gene Pool and Taxon Group), 4, 5 (for Taxon Group, 4, 5) (for Jaxon Group), and Unknown. Multiple values are separated by a semicolon (;) without space. E.g. 4				

Passport data	Taxon		Concept reference(s). The reference(s) for the applied Gene Pool or Taxon Group concept. Multiple entries are separated by a semicolon (;) without space and should correspond to those entries in RELATED_CROP, CONCEPT_TYPE and CONCEPT_LEVEL	X	X	х				CONCEPT_REF. The reference(s) for the applied Gene Pool or Taxon Group concept. Multiple entries are separated by a semicolon (;) without space.				
Passport data	Taxon	кs	Gene pool remarks. Additional remarks regarding the taxon Gene Pool or Taxon Group. Prefix remarks with the descriptor name they refer to and follow by a colon (;). Remarks referring to different descriptors are separated by semicolons (;) without space.		х	х				GENE_POOL_RE MARKS. Additional remarks. regarding the taxon Gene Pool or Taxon Group. Prefix remarks with the descriptor name they refer to and follow by a colon (c). Remarks referring to different descriptors are separated by semicolons (c) without space. CROP_USE: Food – fruits (savoury)				
Passport data	Taxon		Mating system. The mating system of the taxon. Permitted values are: Allogamous, Autogamous, Unknown. Multiple values are allowed, seperated by a semi-colon (;)	х	X	х				BREED_SYSTEM: The breeding system of the taxon. Permitted values are: Allogamous, Autogamous, Mixed mating, and Unknown.	Breeding system. Allogamous, autogamous, auto-allogamous	Mating system Mating system of the landrace species. Allogamous; autogamous, clonal		
Passport data	Taxon		Reproductive system. Permitted values are: Allogamous, Autogamous, Mixed mating, Clonal, Unknown. Multiple values are allowed, seperated by a semi-colon;	х	x	х				REP_SYSTEM. The reproductive system of the taxon. Permitted values are: Sexual, Vegetative, and Unknown.	Reproductive system. Sexual, vegetative			
Passport data	Taxon		Sex structure. The sex structure of the taxon. Permitted values are: Hermaphrodia Monoecy, Andromoneecy, Gynomonoecy, Polygamomonoecy, Dioecy, Androdioecy, Gynodioecy, Polygamodioecy, Apomictic, Other, and Unknown.	х	х	х				SEX_STRUCT. The sex structure of the taxon. Permitted values are: Hermaphrodite, Monoecy, Gynomonecy, Gynomonecy, Oloecy, Andromonoecy, Gynomonecy, Gynomionecy, Gynodioecy, Gynodioecy, Gynodioecy, Apomictic, Other, and Unknown.	Flower / plant sex struture. Hermaphrodite, monoecious, dioecious			
Passport data	Taxon		Pollination. The pollination method(s) of the taxon. Permitted values are: Ants, Bats, Bees (and other flying Hymeoptera), Beetles, Birds, Butterflies and moths (and other Lepidoptera), Files (and other Diptera), Moths, Wind, Water, Other, Unknown, and Not applicable. Multiple values are separated by semicolons (;) without space.	x	х	х				The pollination	Pollination. Wind pollinate, insect pollinated			

Passport data	Taxon	LIFE_FORM	Life form. The life form of the taxon. Permitted values are: Phanerophytes, Nanophanerophytes, Herbaceous phanerophytes, Chamaephytes, Hermicrytophytes, Geophytes, Therophytes, Therophytes, Therophytes, Peiphytes, Helophytes, Hydrophytes, and Unknown.	X	X	x				LIFE_FORM. The life form of the taxon. Permitted values are: Phanerophytes, Nanophaneroph ytes, Herbaceous phanerophytes, Chamaephytes, Chamaephytes, Geophytes, Therophytes, Beiphytes, Helophytes, Helophytes, and Unknown.	Life form		
Passport data	Taxon	LIFE_SPAN	Life span. The life span of the taxon. Permitted values are: Annual, Perennial, Biennial, Annual and Biennial (for combined forms) and Unknown.	х	х	Х				LIFE_SPAN. The life span of the taxon. Permitted values are: Annual, Perennial, Biennial, and Unknown.	Life span. Annual, biannual, winterannual, perennial		
Passport data	Taxon	SEED_DISPERSAL	Seed dispersal. The seed dispersal mechanism of the taxon. Permitted values are: Animal (zoochory), Wind (anemochory), Water (hydrochory), Methods originating from the parent plant or diaspore (autochory), Unassisted (barochory), Dispersal prevented (atelochory, antitelochory), Unknown, and Not applicable.	x	x	х				SEED_DISPERSAL. The seed dispersal mechanism of the taxon. Permitted values are: Animal (zoochory), Wind (anemochory), Methods originating from the parent plant or disapore (autochory), Unassisted (barochory), Dispersal prevented (atelochory), antitelochory), antitelochory), unknown, and Not applicable.			
Passport data	Taxon	CHROMOS_NUM	Chromosome number. The chromosome number(s) of the taxon. Multiple values are separated by a semicolon (;) without space.	х	x	Х				CHROMOS_NUM. The chromosome number(s) of the taxon. Multiple values are separated by a semicolon (;) without space.			
Passport data	Population	GEN_TIME	Generation time. Number of years from germination to maturity for the population being sampled or surveyed.	х		х					Generation time. Number of years from germination to maturity.		
Passport data	Taxon	HABIT	Growth habit. Most common growth habit of the taxon. 10 Herb 15 Vine 20 Shrub 30 Tree	х	Х	Х					Habit. Herb, srub, tree, climber		

Passport data	Taxon	BIOLOGY_REMARKS	Remarks on biology. Additional remarks regarding the biology of the taxon. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (:) without space.	x	x	х						BIOLOGY_REMAR KS. Additional remarks regarding the biology of the taxon. Prefix remarks with the descriptor name they refer to and follow by a colon (). Remarks referring to different descriptors are separated by semicolons (;) without space.				
Passport data	Population	FL_CODE	Flowering status. Are there individuals in flower?  1 = in flower or in bud; 0 = not in flower or in bud. NA is applicable when there is no information available.	х	х	х					x					
Passport data	Population	FR_CODE	Fruiting status. Are thre individuals in fruit or seed?  1 = in fruit or in cones, or with seeds; 0 = not in fruit or in cones, without seeds. NA is applicable when there is no information available.	х	х	х					X					
Passport data	Taxon	SEED_DORMANCY	Seed dormancy. Is seed dormancy detected in this species? Yes or No. Seed dormancy is important in the formation of a soil seed bank and influences their dispersal and therefore conservation.	х	х	Х									х	
Passport data	Taxon	SEED_DORMANCY_ REF	Seed dormancy reference. References related to seed dormancy if detected.	х	х	х									х	
Ecogeographic survey	Population	ORIGCTY	Country of Occurrence. Country where the CWR population was observed or inventoried. Use the Three-letter ISO 3166-1 code of the country where the site is located.		x	x	x	Three-letter ISO 3166-1 code of the country where the CWR population was observed or inventoried. NOTE: The name and description of this descriptor have been changed to apply to in situ CWR.	Country of Origin. 3-letter ISO 3166-1 code of the country in which the sample originated.	the CWR population was	ORIGCTY. The country of origin: 3-letter ISO 3166-1 code of the country in which the herbarium specimen/geneb ank accession was originally collected OR the taxon was observed in the field OR the taxon was referred to in a bibliographic reference OR internet OR in a personal communication. If you need to know what code correspond to each country, please see "worksheet adm, field_per_country".		CountryName / Code (ISO2letter, ISO3letter)			
Ecogeographic survey	Population	SITE_NAME	Site name. The name of the <i>in situ</i> maintenance site where the material is found or was collected from. Should only be filled in if no FAO WIEWS code exists. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be publically available if not approved by the population miantainer of the material / site / population.	x	x	x									х	
Ecogeographic survey	Population	SITE_ID	Site identification. The <i>in situ</i> site identification code. This should be unique to the site and decided by the surveyor. Multiple popoulations may have the same SITE_ID.	х	х	х									×	

Ecogeographic survey	Population	SITEADDRESS	Site address. The <i>in situ</i> site maintenance address where the material is found or was collected from. This is more appropriate for areas under cultivation. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regulations in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be publically available if not approved by the population miantainer of the material / site / population.	x	х	х						x	
Ecogeographic survey	Population	ADM1	Administration level one. Name of the primary administrative subdivision of the country where the site is located, or where the population was collected from. Free text. Example: Umbria Region Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	х	x			ADM1	AdministrtiveUnit. Name, code	х		
Ecogeographic survey	Population	ADM2	Administration level two. Name of the secondary administrative subdivision (within the primary administrative subdivision) of the country where the site is located, or where the population was collected from. Free text. Example: Perugia Province Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	х	x			ADM2		х		
Ecogeographic survey	Population	ADM3	Administration level three. Name of the third administrative division where the site is located or where the population was collected from. Free text. Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	х	x			ADM3		х		
Ecogeographic survey	Population	ADM4	Administration level four. Name of the fourth administrative division where the site is located or where the population was collected from. Each country has different structure of administrative levels, however all structures are hierarchical. The hierarchical structure used is the Global Administrative Database (www.gadm.org) structure. See worksheet 'adm_field_per_country' of this Excel file for the administrative structure you must use for your country.	х	х	x			ADM4				

Ecogeographic survey	Population	OCCURSITE	Occurrence site. Location information below the country level that describes the site where the population sample was observed, inventoried, preferably in English. This might include the distance in km and direction from the nearest town, village or map grid reference point, (e.g. 7km south of Curitiba in the state of Parana).	x	x	x	x	COLLSITE. Location information below the country level where the population sample was observed. This might include the distance in km and direction from the nearest town, village or map grid reference point (e.g. 7km east of Wageningen in the province of Gelderland). NOTE: The name and description of this descriptor have been changed to apply to in situ CWR.		sample was observed or inventoried. This might include the distance in km and direction from the nearest place, town, village or map grid reference point.	COLLSITE. The location of the cocurrence site [Inerbarium specimen OR genebank accession OR the field observation OR the site referred to in a bibliographic reference OR internet OR from a personal communication]: location information fromation information information the communication information was collected, preferably in English. This might include the distance in kilometres and diffrection from the nearest town, village or map grid reference point, (e.g. 7 km south of Curitba in the state of Parana).	NearesiNamedPla ce.		
Ecogeographic survey	Population	DECLATITUDE	Decimal degrees latitude.  Latitude of the site expressed in decimal degrees. Positive values are North of the Equator; negative values are South of the Equator (e.g., -44.6975).	x	x	x	x	(e.g44.6975). NOTE: The name of this descriptor has been changed to apply to in situ CWR.	Positive values are North of the equator; negative values	site expressed in decimal degrees. Positive values are North of the Equator, negative values are South of the Equator (e.g., -44.6975).	The final latitude (in decimal degrees) of the occurrence site (from herbarium specimen/geneb ank accession/field observation/data base/bibliographi C reference/interne typersonal communication]. Final cross-checked latitude, either from original data (COORD_SOURCE =original) OR from georeferencing (COORD_SOURCE =geore). If original cross-checked latitude, either from criginal data (COORD_SOURCE =geore). If original is used and it is in the 'degrees, minutes, seconds' format then it has to be converted to decimal degrees. Positive values are north of the Equator, negative values are south of the Equator (e.g44.6975). Please check decimal separator are points (not commas). Probably you should change the OS decimal separator.	LatitudeDecimal		

Ecogeographic survey	Population		Decimal degrees longitude Longitude of the site expressed in decimal degrees. Positive values are East of the Greenwich Meridian; negative values are West of the Greenwich Meridian (e.g., -120.9123).	x	x	x	x	Longitude expressed in decimal degrees. Positive values are east of the Greenwich Meridian; negative values are west of the Greenwich Meridian (e.g. +120.9123). NOTE: The name of this descriptor has been changed to apply to in situ CWR. The accuracy of this information that is going to be disseminated may be adjusted as capropriate by each country.	Decimal degrees format. Longitude expressed in deceimal degrees. Positive values are East of Grennwich Meridian; negative values are West of the Greenwich Meridian (e.g. +120.123)	the site expressed in decimal degrees. Positive values are East of the Greenwich Meridian; negative values	The final longitude (in decimal degrees) of the occurrence site (from herbarium specimen/geneb ank accession/field observation/data base/bibliographi c reference/interne t/personal communication]. Final cross-checked longitude, either from original data (COORD_SOURCE=original) OR from georeferecing (COORD_SOURCE=original) at the converse of the converse of the converse of the converted to decimal degrees, minutes, seconds' format then it has to be converted to decimal degrees. Positive values are east of the Greenwich Meridian (e.g. +120.9123). Probably you should change the OS' decimal separator.	LongitudeDecim al		
Ecogeographic survey	Population	COORDUNCERT	Coordinate uncertainity [m]. Uncertainity assoicated with the coordinates in meters. Leave the value empty if the uncertainity is unknown	x	x	x	X	Uncertainty associated with the coordinates in metres. Leave the value empty if the uncertainty is unknown. Can also be used to indicate the size of the distribution area of the CWR. NOTE: The description of the CWR. NOTE is the CWR. NOTE in the CWR. NOTE is the CWR. NOTE in the CWR. NOTE is the CWR. NOTE in th	Uncertainty associated with the coordinates in metres. Leave the value empty if the uncertainty is unknown.		The coordinate uncertainty [m]: uncertainty [m]: uncertainty associated with the final coordinates of the occurrence site (DECLATITUDE and DECLONGITUDE) in metres. This field is directly related to (a) uncertainty associated to coordinate taking by old GPS devices, or (b) uncertainty estimated when using georeferencing tools, such as GEOLocate (http://www.museum.tulane.edu/geolocate/), to convert free-text descriptions of places (such as "twenty miles northeast of plalalabad") into geographic coordinates expressed as latitude and longitude.	CoordinateError DistanceInMeter s		

Ecogeographic survey	Population	ELEVATION	Elevation. Elevation of the occurrance site expressed in meters above sea level e.g. the centrum height of height range. Negative values are allowed	x	x	х	x		Elevation of maintence site [masl]. Elevation of maintenance site expressed in meters above sea level e.g. the centrum height of height range. Negative values are allowed	Elevation of collecting site expressed in metres above sea level. Negative values are allowed.	Elevation of site [masi]. Elevation of site expressed in metres above sea level. Negative values are allowed.	х	Altitudiani zone. planer, coline, montane, alpine, nivale. Altitudinal range. in m.a.s.l			
Ecogeographic survey	Population	POP_AREA	Population area. Area of population being assessed (ha)	х	х	х	х						Informed by similar descriptors from here		х	
Ecogeographic survey / In situ networking	Taxon	DIST_STATUS	Distribution status. The distribution status of the taxon within the geographic area of the checklist or inventory. Note: Regional' is defined here as a geographic area comprising different countries (e.g. Europe, the Mediterranean region, the SADC region, Sub-Saharan Africa, Mesoamerica) rather than a sub-unit within a country (Magos Brehm et al., 2017).  10 Native 11 National endemic 12 Regional endemic 20 Introduced 30 Archeophyte 40 Neophyte 90 Unknow 90 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	x	x	x	x	RL, IN				The distribution status of the taxon within the geographic area of the checklist or inventory, indicating whether it is a National endemic, Regional endemic, Cosmopolitan, or Unknown.  Note: Regional is defined here as a geographic area comprising different countries (e.g. Europe, the Mediterranean region, the SADC region, Sub-Saharan Africa, Mesoamerica) rather than a sub-unit within a country (Magos Brehm et al., 2017).	STATUS: Native/introduced, archeophyte, neophyte			
Ecogeographic survey	Taxon	DIST_REF	Distribution reference. The reference(s) to the information source(s) describing the distribution of the taxon. Multiple references are separated by a semicolon (;) without space.	x	x	х	x					The reference(s) to the information source(s) describing the distribution of the taxon. Multiple references are separated by a semicolon (;) without space.				
Ecogeographic survey	Taxon	DIST_REMARKS	Distribution remarks. Additional remarks regarding the taxon distribution. Prefix remarks with the field name they refer to and follow by a colon (;). Remarks referring to different descriptors are separated by a semicolons (;) without space.	X	x	x	x					Additonal remarks regarding the taxon distribution. Prefix remarks with the field name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by a semicolons (:) without space.				

Data management identifiers / In situ networking	Population		Maintainer code: FAO WIEWS code of the institution responsible for, and/or organization or individual, that holds rights or is responsible for the <i>in situ</i> population (e.g. farmer, protected area authority, nature reserve manager, national park manager, private landowner, etc.). The codes consist of the Three-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from http://www.fao.org/wiews. Research organisations can use codes from https://ror.org/.	x	x	x	x	IN	INSTCODE. Institute code. FAO WIEWS code of the institution responsible for, and/or organization that manages the CWR population (e.g. protected area authority, nature reserve manager, national park manager, private landowner, etc.). The codes consist of the Three-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from http:// www.fao.org/ wiews. For those institutes not yet having a FAO WIEWS code, or for those with 'obsolete' codes, see section 'General formatting rules'  NOTE: This description deviates from the ex situ upload format.	MNGINSTCODE . Managing institute, legal entity or individual name. Name of the managing institute, legal entity, herbarium, or individual holding rights or respoknsible of the popualtion (e.g., protected area authority, nature reserve manager, national park manager, private landowner etc)			x	
Data management identifiers	Population	MAINTAINER_CODE_ REF	Reference use for the MAINTAINER_CODE. i.e. "FAO WIEWS"	x	x	X	x		INSTCODE. Institute code. FAO WIEWS code of the institution responsible for, and/or organization that manages the CWR population (e.g. protected area authority, nature reserve manager, national park manager, private landowner, etc.). The codes consist of the Three-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. CLO01). The current set of institute codes is available from http:// www.fao.org/ wiews. For those institutes not yet having a FAO WIEWS code, or for those with 'obsolete' codes, see section 'General formatting rules' .  NOTE: This description deviates from the ex situ upload format.	MNGINSTCODE . Managing institute, legal entity or individual name. Name of the managing institute, legal entity, herbarium, or individual holiding rights or respoknsible of the popualtion (e.g., protected area authority, nature reserve manager, national park manager, private landowner etc)			x	

Data management identifiers / In situ networking	Population	MAINTAINER_NAME	Maintainer name: Name of the institute, organisation or individual that holds rights or is responsible for the in situ population. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regulations in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be publically available if not approved by the population miantainer of the material / site / population.	x	x	x	x	IN	INSTNAME. Institute name. Name and short address of the organization that manages the CWR population (e.g. protected area authority, nature reserve manager, national park manager, private landowner, etc.). This descriptor should be used to be	MNGINSTNAM E: Managing institute, legal entity or individual name. Name of the managing institute, legal entity, herbarium, or individual holding rights or respoknsible of the popualition (e.g. protected area authority, nature reserve manager, national park manager, private landowner etc)		Owner. Private, state run, other, unknown		х	
Data management identifiers	Population	MAINTAINER_ADDRE SS	Maintainer address: Managing institute, organisation or individual individual address related to MAINTAINER, CODE or MAINTAINER, CODE or MAINTAINER, NAME. IMPORTANT: GDPR may apply to this information. Release of this information should follow the regualtions in place at the institute / organisation who is collecting this information. Or if in doubt, this information should not be publically available if not approved by the population miantainer of the material / site / population.	x	Х	x	x			MNGINSTADDR ESS: Managing institute, legal entity or individual address				Х	

Data	Population	MAINTAINER_ID	Maintainer ID. Unique number identifier of the	х	х	х	IN				FARMERID:	х	
management identifiers / In			maintainer of the <i>in situ</i> population. It is assigned by the institute that is responsible at								Farmer identification		
situ networking			the national level for the production of the								number:		
			inventory database. It is suggested that any								Unique		
			personally identifiying data that is subject to								number		
			GDPR should be kept in a seperate database								identifier of		
			and not made public. The MAINTAINERID should correspond to the seperate database]								the farmer who maintains		
			should correspond to the seperate databasej								the LR and		
											provides		
											information		
											(Landrace		
											maintainer unique ID to		
											be held in		
											database). It is		
											assigned by		
											the institute		
											that is responsible at		
											the		
											national level		
											for the		
											production of		
											the National LR in situ		
											Inventory.		
											This number		
											should not be		
											duplicated or		
											reassigned to other unit.		
											This number		
											should be		
											composed of		
											the 'National		
											Inventory Code (NICODE		4
											1.1.)' +		4
											'National		
											Inventory		
											Edition		
											Number		
											(1.2.NIENUMB )' + 'Landrace		4
											number (3.2.		4
											LRNUMB)'		4
											Example:		4
											NLD001/2012		4
											00010		4
											(Note: it is suggested		
											that farmer		
											details (i.e.		
											farmer name,		4
											surname,		4
											postal address, email		4
											address, email		
											phone		
											number/s,		
											etc.) are		
											recorded in a separated and		
											not public		
											database.		
											FARMERID		
											should then		
											correspond to FARMERID of		
											the above		
											mentioned		
											separate		
											database to link the two		
											databases).		
											Gatabases).		
Data	Population	MAINTAINER_AGE	Maintainer age. Age of the person who		Х	Х	LRT						Almeida, M.J., (2024)
management			maintains the in situ population, in years. Use										M.J., (2024)
identifiers			the appropriate code below:										
			10 less than or equal to 25 20 Age between 26 to 40										
			30 Age between 41 to 55										
			40 Age between 56 to 69										
			50 Age 70 or above										4

Data management identifiers	Population	MAINTAINER_T	Maintainer tenancy of the land. Multiple options are allowed and should be seperated by semicolons (;) without space. 10 Owner 20 Tenant 30 Life tenant 40 Cultivating public land 50 Managing land only 99 Other (elaborate in REMARKS)	x	х	x	x							FARMHT: Holding / tenancy of the farm/estateSe e codes in the table below. Multiple choices are allowed since the farm can be made of several types of holdings. Multiple choices are allowed since with the farm can be made of several types of holdings. Multiple choices are allowed without space. Code Owner 10 Tenant 20 Life tenant 30 Cultivating public land 40 Other (elaborate in REMARKS) 99	x	
Data management identifiers	Population	INSITU_ACCESS	In situ access. Access to the in situ resource from the site being surveyed. How can the resource be accessed?  10 Via a genebank accession 20 Direct from wild in situ source 30 Direct from on-farm source	X	х	Х	х						Access to the in situ resource. How the resource can be accessed. Via a genebank accession, direct from in situ source			
Utilisation / In situ networking	Population	MLSSTAT_INSITU	Multilateral System status of the in situ material. The status of the PGRFA with regard to the Multilateral System of Access and Benefit-Sharing (MLS) of the international Treaty on PGRFA. Applicable if there is direct access to the in situ material. Leave the value empty if the status is not know. O No (not available under the MLS) 1 Yes (available under the MLS) 99 Other (elaborate in REMARKS field, e.g. 'under development')	×	x	x	x	IN, GR	situ accession of the CWR population with regards to the Multilateral System of Access and Benefit Sharing (MLS) of the International Treaty, if available under the MLS 1: Available under the MLS NOTE: The definition of this descriptor in Alercia et al. (2021)1 refers to the ex situ	MLS status of the accession. The status of an accession. The status of an accession with regards to the Multilateral System (MLS) of Plant Genetic Resources for Food and Agriculture. Leave the value empty if the status is not known 0 No (not included) 1 yes (included) 99 Other (elaborate in REMARKS field, e.g. 'under development')	The status of the material with regards to the Multilateral System of Access and Benefit sharing of the International Treaty, if available. O Not available under the MLS 1 Available under the MLS 1 Available under the MLS					
Data management identifiers	Population	LIAISONCODE	Liasison institute code. FAO WIEWS code of the institution that can liaise between the organization managing the CWR population and the interested user. Research organisations can use codes from https://ror.orgi. For those institutes not yet having a FAO WIEWS code, or for those with 'obsolete' codes, see section 'General formatting rules'	х	х	х	х		Liasison institute code. FAO WIEWS code of the institution that can liaise between the organization managing the CWR population and the interested user. NOTE: This descriptor is new and did not occur in the EURISCO ex situ format yet.							

Data management identifiers	Population	LIAISONNAME	Liaison institute name. Name, and brief address, of the institution that can liaise between the organization managing the CWR population and the interested user.	x	х	x	x		Liaison institute name. Name, and brief address, of the institution that can liaise between the organization managing the CWR population and the interested user. NOTE: This descriptor is new and did not occur in the EURISCO ex situ format yet.							
Ecogeographic survey	Population	OBSDATE	Observation date [YYYMMDD]: The most recent date the <i>in situ</i> population was observed, where YYY' is the year, Mh is the month and DD is the day. Missing data (MM or DD) should be indicated with hyphens or '00' [double zero]. (e.g. 2024-06-10)	x	x	x	×		ACQDATE[YYYYMM DD]: The most recent date the population was observed, where YYY is the year, MM is the month and DD is the day, Missing data (MM or DD) should be indicated with hyphens or '00' [double zero]. NOTE: The name and description of this descriptor have been changed to apply to in situ CWR.	ACQDATE: Date on which the accession entered the collection where YYYY is the year, MM is the month and DD is the day. Missing data (MM or DD) should be indicated with hyphens or '00' [double zero].  COLLDATE. Collecting date of the sample, where YYYY is the year, MM is the month and DD is the day. Missing data (MM or DD) should be indicated with hyphens or '00' [double zero].	format is ISO 8601, where YYYY is the year, MM is the month and					
Ecogeographic survey	Population	FIRST_OBSDATE	First observation date. Date [YYYYMMDD] of the first observation of the in situ population and its inclusion into the national inventory. This may be the same as the OBSDATE if it is the first time recording the popoulation.	x	x		x								х	
Ecogeographic survey	Population	PRESENCE_IN_PA	Presence in a protected area. Indicate whether the population is known to be present in a protected area. This can include the whole population or just part of a population.  10 Present in a protected area.  20 Not present in a protected area.	x	x	x		GR				PRESENCE_IN_PA. Indicate whether the taxon is known to be present in one or more protected areas or the distributional range of the taxon overlaps with one or more protected areas. Permitted values are: Known presence in PA, Overlap with PA, No, and Unknown.				
Ecogeographic survey	Population	PA_NAME	Protected area name. Name of protected area the surveyed or sampled population is found within. Only applicable if the population being surveyed is within a PA	х	Х	х	х	GR					NamedAreaClass (Protected Area)		Х	
Ecogeographic survey	Population	PA_CODE	Protected area code. Code of protected area, if available	х	Х	х	х	GR					NamedAreaCode (NSG345)		х	

Ecogeographic survey	Population	SITEPROT	Site protection. Indicate whether the site is under any legal or offical legislation. Following these guidelines: https://portals.iucn.org/library/node/30018 0 No (not protected) 1 Strict nature reserve 2 Wilderness area 3 National park 4 Natural monument or feature 5 Habitat/species management area 6 Protected landscape/seascape 7 Protected area with sustainable use of natural resources 8 Other effective conservation measures (OECM) This descriptor is useful for IUCN red listing.	x	x	x	x	RL, GR	Site protection. Indication wheather the site is under any legal or official protection. 0 No (not 1 Strict nature reserve 2 Wilderness area 3 National park 4 Natural monument or feature 5 Habitat/species management area 6 Protected landscape/seascap e 7 Protected area with sustainable use of natural resources 8 Other effective conservation measures (OECM) Following these guidelines: https://portals.iucn. org/library/node/30 018	Indicate whether the site is under any legal or official legislation. Follow IUCN Guidelines available at https://www.iu.cn.org/theme/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/about/protected-areas/areas/about/protected-areas/areas/about/protected-areawith-areas					IUCN (2018)
In situ networking	Population	INSITU_NET	In situ network. Is the population / site part of an in situ network. Yes/No	х	х	х	х	IN						Х	
In situ networking	Population	INSITU_NET_SCALE	Scale of <i>in situ</i> network. What geogrpahic scale of a network does it belong too? Local / National / Regional / Global	х	х	х		IN						х	
Monitoring	Population	INSITU_MON_ORG	In situ monitoring organisation. Organisation/s responsible for the demographic monitoring of the <i>in situ</i> population. Multiple values seperated by a semicolon.	х	х	х	х	GR						х	
Monitoring	Population	INSITU_MON_INT	Demogaphic monitoring interval. How often the population is monitored, in years. Include information on demographic monitoring and genetic diversity monitoring e.g. demographic.5 years; genetic:15 years. Leave blank if not monitored	х	X	X	x	GR				Monitoring detail	Monitoring interval: To be compiled if MONIT is 'Yes'. Indicate who is in charge of monitoring. Free text.		
Monitoring / In situ networking	Population	INSITU_GENETIC_MO N	In situ genetic monitoring. Is there any in situ genomic genetic diversity monitoring taking place on the popualtion? Yes/No	х	х	х	х	IN, GR						х	
Monitoring / In situ networking	Population	INSITU_GENETIC_MO N_URL	In situ genetic monioring URL. Include links to genetic diversity monitoring plans related to the in situ population	х	x	x	х	IN, GR						х	
Monitoring / In situ networking	Population	INSITU_GENETIC_TR END	Population trend. Measured according to the IUCN classification: 10 Increasing 20 Decreasing 30 Stable 99 Unknown This descriptor is useful for IUCN red listing.	х	х	х		GR						х	

Monitoring	Population	THREAT_INSITU	Threat to the <i>in situ</i> population. List any threats apparent to the <i>in situ</i> population, using the LICN threats classification scheme. Main threats listed below with more information here: https://www.iucnredlist.org/resources/threat-classification-scheme. Or Residential and commercial development 02 Agriculture and aquaculture 03 Energy production and mining 04 Transportation and service corridors 05 Biological resource use 06 Human intrusions and disturbance 07 Natural system modifications 08 Invasive and other problematic species, genes, diseases 09 Pollution 10 Geological events 11 Climate change and sever weather 99 Other (elaborate in REMARKS)		x	x	x	RL	CAMPOTAT	Natural services	CAMPOTAT		Threats. IUCN authority file		х	IUCN (2018)
Monitoring	Population	SAMPSTAT_INSITU	Biological status of the <i>in situ</i> population. The coding scheme proposed can be used at different levels of detail, either by using the general codes (in boldface), such as 100 or 200, or by using the more specific codes such as 110, 120 or 130.  100 Wild 110 Natural 120 Semi-natural/wild 130 Semi-natural/sown 200 Weedy 999 Other (elaborate in REMARKS field)	X	X	x	x		SAMPSTAT. Biological stsus of the accession. The coding scheme proposed can be used at two different levels of detail: either by using the general codes (in boldface) such as 100, 200, or by using the more specific codes such as 110, 120, etc. 120, etc. 1210: Natural 120: Semi-natural/wild 130: Semi-natural/sown 200: Weedy 999: Other (Elaborate in REMARKS field) NOTE: The description of this descriptor has changed (less allowed values).	detail: either by using the general codes (in boldface) such as 100, 200, 300, 400, or by using the more specific codes such as 110, 120, etc. 100) Wild 110) Natural 120) Seminatural/wild 130) Seminatural/wild 130) Semi	SAMPSTAT. Biological status of the population. The coding scheme proposed can be used at different levels of detail, either by using the general codes (in boldrace), such as 100 or the more than the such as 110. 120 or 130. 120 or 130	SAMPSTAT. The biological status of the herbarium specimen/geneban is accession/field observation/datab ase/bibliographic reference/internet/personal communication: the coding scheme proposed can be used at three different levels of detail: either by using the general solid proposed can be used at three different levels of detail: either by using the more specific codes such as 110, 120, etc. 100 = Wild 110 = Natural 120 = Seminatural/Wild 110 = Seminatural/Wild 130 = Seminatura	Status. Native/introducde d, archeotype, neophyte			

Monitoring	Population	NUM_IND	Number of individuals in the <i>in situ</i> popuation (being assessed). See codes below 001 - 1 to 5 00 005 - 51 to 150 010 - 151 to 300 025 - 301 to 500 050 - 501 to 750 060 - 751 to 1,000 070 - 1,001 or more This descriptor is useful for IUCN red listing.	x	х	x	x	RL, LRT, GR		FREQUENCY. observation/datab ase/bibliographic reference/internet/ personal communication.	Population size		X	
Monitoring	Population	NUM_MAT_IND	Number of MATURE individuals in the <i>in situ</i> popuation (being assessed). See codes below 001 - 1 to 50 005 - 51 to 150 010 - 151 to 300 025 - 301 to 500 050 - 501 to 500 050 - 501 to 750 060 - 751 to 1,000 070 - 1,001 or more This descriptor is useful for IUCN red listing.	х		х		RL, GR						IUCN (2018)
Monitoring	Population	NUM_INDI_REMARKS	Remarks on the number of individuals recorded. This can sometimes be difficult to interpret especially if the species is donal, therefore provide comments if necessary, this descriptor is useful for IUCN red listing.	х	х	х		RL						Comment from reviewer
Monitoring	Population	POP_TREND	Population trend. Measured according to the IUCN classification: 10 Increasing 20 Decreasing 30 Stable 99 Unknown This descriptor is useful for IUCN red listing.	x	х	х		RL					х	IUCN (2018)

Ecogeographic survey	Population	POPSRC	Status of the occurrence site. Status of the occurrence site of the population. The coding scheme proposed can be used at different levels of detail: either by using the general codes (in boldface) such as 10, 20 etc., or by using the more specific codes, such as 11.12, etc Multiple values are seperated by a semicolon without space.  10) Wild habitat  11) Forest or woodland 12) Shrubland 13) Grassland 14) Desert or tundra 15) Aquatic habitat 20) Farm or cultivated habitat 21) Field 22) Orchard 23) Backyard, kitchen or home garden (urban, peri-urban or rural) 24) Fallow land 25) Pasture 28) Park 60) Weedy, distrubed or ruderal habitat 61) Roadside 62) Field margin 99) Other (Elaborate in REMARKS field)				^	Status of occurrence site of the occurrence site of the population(s). The coding scheme can be applied either by using the general codes (in boldface) or the more specific codes. Multiple values are separated by a semicolon will only a semicolon will only space of the more specific codes. Multiple values are separated by a semicolon will only space of the code of	COLLSRC. COLLSRC. COllecting/acqui sition source. The coding scheme proposed can be used at 2 different levels using the general codes (in boldface) such as 10, 20, 30, 40, etc., or by using the more specific codes, such as 11, 12, etc. 10) Wild habitat 11) Forest or woodland 12) Shrubland 13) Grassland 13) Grassland 14) Desert or tundra 15) Aquatic habitat 20) Farm or cultivated habitat 22) Orchard 23) Backyard, kitchen or home garden (urban, peri-urban or rural) 23) Backyard, kitchen or home garden (urban, peri-urban or rural) 6) Farm store 27) Threshing floor 28) Park 30) Market or shop 40) Institute, Experimental station, Genebank 50) Seed company 60) Weedy, disturbed or ruderal habitat 61) Roadside 62) Field margin 99) Other (Elaborate in REMARKS field)	woodland, 12 Grassland, 13 Grassland, 14 Desert or tundra, 15 Aquatic habitat) 20 Farm or cultivated area (21 Field, 22 Orchard, 23 Backyard, kitchen or home garden, 24 Fallow land, 25 Pasture, 28 Park) 60 Weedy, disturbed or ruderal habitat (61 Roadside, 62 Field margin) 99 Other (for example coastal habitats,	COLLSRC. The occurrence habitat source: the coding scheme proposed can be used at two different levels of detail: either by using the general codes such as 10, 20, 30, 40, etc., or by using the more specific codes, such as 11, 12, such as 11, suc	Habitat. EUNIS category and/or IUCN category			
Ecogeographic survey	Population	HABITAT_OTHER	Other habitat. If used, a different habitat classification to the site than POPSRC.	x	x	х					HABITAT_TXT: The description of habitat if provided in the original data from the herbarium specimen/geneb ank accession/field observation/data base/bibliographi c reference/interne t/personal communication.	Habitat status. Increase, decrease in area or quality			
Ecogeographic survey	Population		Reference for the HABITAT_OTHER. Include a reference or URL to the different classification used if HABITAT_OTHER was used.	х	х	х								Х	
Ecogeographic survey	Population	DOM_PLANT_SPP	Dominant plant species. What are the dominant or keystone plant species at the site? (Excluding the population being assssed)	Х	Х	Х								Х	

Ecogeographic survey	Population	VEGETATION_HEIGH T	Vegetation height. What is the dominant height of the vegetation surrounding the population: 010 - Less than 10cm 020 Between 10cm and 30cm 030 Between 10cm of 100cm (1m) 040 Between 100cm (1m) and 200cm (2m) 050 Between 200cm (2m) to 500cm (5m) 060 Above 500cm (5m)	x	x	X				Vegetation		X	JNCC (2004)
Ecogeographic survey	Population	ROCK_TYPE	Rock type. Dominant type of rock at the site: 10 Igneous 20 Metamorphic 30 Sedimentary	х	х	х				Geology		х	Bioversity Internation al (2007)
Ecogeographic survey	Population	SOIL_DOM	Soil dominant type. What is the dominant soil type at the site? 10 Acidic 20 Alkaline 30 Neutral 90 Unknown	X	х	х			SOIL. The description of soil conditions at the occurrence site if provided in original data from the herbarium specimen/geneb ank accession/field observation/data base/bibliographi c reference/internet/personal communication.	Soil description. e.e. shallow sandy soil / pH / Soil type / Soil texture / Soil moisture regime / Soil depth / % organic matter / Salinity / Derived soil evaluation			
Ecogeographic survey	Population	SOIL_DETAIL	Soil details. Include further details about the soil type, such as colour, salinity, depth etc. Referencing the World Reference base for Soils, if appropriate: https://www.isric.org/explore/wrb	х	х	х				Soil type / Soil texture. Reference to classification that is used.			
Ecogeographic survey	Population	WATER_AVAIL	Water availability. 10 Rain-fed 20 Irrigated 30 Flooded 40 River bank 50 Sea coast 99 Other (specify in appropriate section's Notes)	х	х	х						x	
Ecogeographic survey	Population	SITE_ASPECT	Site aspect. What is the aspect of the site? 10 North 11 North east 12 North west 20 South 21 South east 22 South west 30 East 40 West 90 No dominant aspect 99 Other (elaborate in REMARKS)	x	×	x			ASPECT. The aspect of the occurrence site if provided in the original data from the herbarium specimen/geneb ank accession/field observation/data base/bibliographi creence/internet/personal communication.	Aspect. Orientation, outlook or aspect of slope		x	
Ecogeographic survey	Population	TOPOGRAPHY	Topography. The profile levation of the land surface on a braod scale (FAO1990) 10 Flat D - 0.5% 20 Almost flat 0.6 - 2.9% 30 Gently undulating 3 - 5.9% 40 Undulating 6 - 10.9% 50 Rolling 11 - 15.9% 60 Hilly 16 - 30% 70 Steeply dissected >30% moderate elevation range 80 Mountainous >30% great elevation range (-330 m) 99 Other	x	x	x							Bioversity Internation al (2007)
Ecogeographic survey	Population	LANDFORM	Landform. The shape of the land surface in the area in which collecting site is located (FAO 1990) 1 Plain 2 Basin 3 Valley 4 Plateau 5 Upland 6 Hill 7 Mountain	х	X	X							Bioversity Internation al (2007)

Ecogeographic survey	Population	LAND_ELEMENT	Land element. Description of the geomorphology of the immediate surroundings of the collecting site (Bioversity Internation) (2007) Guidelines for the development of crop descriptor Isis.) 1 Plain level 2 Escarpment 3 Interfluve 4 Valley 5 Valley floor 6 Channel 7 Levee 8 Terrace 9 Floodplain 10 Lagoon 11 Pan 112 Caldera 13 Open depression in flat or almost-flat terrain) 14 Closed depression 29 Coral reef 15 Dune 16 Longitudinal dune 17 Interdunal depression 18 Mangrove 19 Upper slope 20 Midslope 21 Lower slope 21 Lower slope 22 Ridge 23 Beach 12 Skoumit 26 Summit 27 Coral atoll 28 Drainage line (bottom position 99 Other	x	X	x								Bioversity Internation al (2007)
Ecogeographic survey	Population	SLOPE	Slope. Slope angle in degrees. Example: 25	x	x	х				SLOPE. The slope of the occurrence site if provided in original data from the herbarium specimen/geneb ank accession/field observation/data base/bibliographi c reference/interne t/personal communication.	Slope. Measurement of the angle of slope			Bioversity Internation al (2007)
Ecogeographic survey	Population	SLOPE_FORM	Slope form. General shape of the slope in both vertical and horizontal directions: 01 Straight 02 Concave 03 Convex 04 Terraced 05 Complex (irregular)	х	x	x								Bioversity Internation al (2007)
Ecogeographic survey	Population	CLIMATIC_ZONE	Climatic zone. Dominant climatic zone the population is found within at survey site. Example: Temperate	х	х	х					Climatic preference. Arctic, boreal, nemoral, meridional, tropic, austr, antartic			
Ecogeographic	Population	CLIMATIC_ZONE_REF	Climatic zone reference. Reference used for	Х	х	Х							х	
Ecogeographic survey	Population	LIGHT	identifying the climatic zone Light. Is the population in full-sun or not?  10 Shady  15 Partial shade  20 Sunny	х	x	х								Bioversity Internation al (2007)
Ecogeographic survey	Population	POPURL	Population URL. URL linking to additional ecogeographic data about the <i>in situ</i> population.	х	x	x	x	ACCEURL URL linking to additional data about the population. Example: http://gbis.pic.pic.pic.pic.pic.pic.pic.pic.pic.pic	LINKS: One or more URLs where further information about the CWR population can be found. Multiple values are separated by a semicolon without space.					

Managment / In situ networking	Population	CONSACTION	Population conservation actions. Conservation actions in place for the population. Indicate whether conservation actions related to the population are in place. Use the IUCN classification scheme (https://www.iucnrediist.org/resources/conservation-actions-classification-scheme) Multiple values should be seperated by a semicolon without a space.  00 No conservation actions 10 Land/water protection 20 Land/water management 30 Species management 40 Education and awareness 50 Law and policy 60 Livelihood, economic and other incentives 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	x	x	x	x	RL, IN, GR	CONSACTION: CONSACTION: CONSENTATION: CONSENTATION actions in place. Indication whether conservation actions related to the population are in place. Use the IUCN classification scheme for conservation actions in place (available from https:// nc.lucnredlist.org/ redlist/content/ attachment_files/ dec_2012_guidance - conservation_action s_in_place_classification scheme.pdf  (adapted). Multiple values are separated by a semicolon without space. 0 No conservation actions 1 Monitoring and Planning 2 Land/Water Protection and Management 3 Species Management 4 Education and Legislation 99 Other (elaborate in REMARKS field)	CONSERVATIO NACTIONS: Conservation actions in place. Indication whether conservation actions related to the population are in place. Use the IUCN classification scheme for conservation actions in place (available from https:// nc.lucnredlist.org/redlist/ content/ attachment_file s/ dec_2012_guid ance_ classification_s cheme_pdf) (adapted). Multiple values are separated by a semicolon without space. 0 No conservation_actions; 1 Monitoring and Planning 2 Land/Water Protection and Management 3 Species Management 4 Education and Legislation go Other (leaborate in REMARKS field)		In situ / Recovery	Conservation actions: Whether any structured and funded in situ conservation action related to the LR is in place at the moment of the Inventory compilation. See codes in the Inventory compilation. See codes in the Inventory compilation of the Inventory compilation of the Inventory compilation of the Inventory compilation. See codes in the Inventory compilation of the Inventory compilation. See codes in the Inventory compilation of the Inventory c	IUCN (2018)
Managment	Taxon	CONSACTION_TAXO N	Taxon conservation actions. Conservation actions in place for the taxon. Indicate wheater conservation actions related to the taxon are in place. Use the IUCN classification scheme (https://www.iucnredlist.org/resources/conserv ation-actions-classification-scheme) Multiple values should be seperated by a semicolon without a space.  00 No conservation actions 10 Land/water protection 20 Land/water management 30 Species management 40 Education and awareness 50 Law and policy 60 Livelihood, economic and other incentives 99 Other (elaborate in REMARKS) This descriptor is useful for IUCN red listing.	X	х	х	x	RL, LRT			CONS_ACTION: Indicate whether there are any current conservation actions in place for the taxon. Permitted values are: Yes, No, and Unknown. CONS_ACTION_P LAN. Indicate whether there is a species conservation action plan for the taxon. Permitted values: Yes, No, and Unknown.			IUCN (2018)
Managment	Population	CONS_URL	Conservation URL Provide the link(s) and reference(s) related to the conservation actions (CONSACTIONPTAXON). Multiple entries are separated by a semicolon (;) without space.	x	x	х	х				Provide the reference(s) related to the conservation actions. Prefix references with the descriptor name they refer to and follow by a colon (;). Multiple entries are separated by a semicolon (;) without space.			

Managment	Population	CONORG	Conservation organisation. Name of the conservation organisation/s responsible for the conservation action, as described in CONSACTIONPOP and/or CONSACTIONTAXON. Free text.	x	x	х	x						Conservation organiser: To be compiled if CONSERVACTI ONS is Yes: Name of the Authority/Publ ic subject/Farme r organisation/ Foundation that has organised the conservation action. Free text.		
Managment	Taxon	LEGSTATUS	Legal status: Informs whether the taxon is legally protected at the European, national or subnational levels. HD: Habitats Directive; NAT: National level; SUB: Subnational level; NLP=Not legally protected. Multiple values allowed, separated by semi-colon, without space. This descriptor is useful for IUCN red listing.	x	x	x		RL							Iriondo, J., pers comms.
Managment	Taxon / Population	CONS_REMARKS	Conservation remarks. Additional remarks regarding conservation descriptors. Prefix remarks with the descriptor name they refer to and follow by a colon (). Remarks referring to different descriptors are separated by semicolons () without space. Reference CONSACTION or CONSACTION_TAXON categories if appropriate	x	x	x	x				CONS_REMARKS. Additional remarks regarding conservation descriptors. Prefix remarks with the descriptor name they refer to and follow by a color (). Remarks referring to different descriptors are separated by semicolons () without space. CONS_REF. Provide the reference(s) related to the conservation actions. Prefix references with the descriptor name they refer to and follow by a colon (;). Multiple entries are separated by a semicolon (;) without space.				
Managment / In situ networking	Population	INSITU_MANAGE_IN TER	Management interventions: What interventions are being done to manage the population e.g. buring, grazing	x	х	х		LRT, IN, GR			INSITU MANAGE MENT. Indicate whether the taxon is actively managed and monitored within the PA(s) (i.e. a PA management of plan exists that addresses the management of the target taxon) Permitted values are: Actively managed in at least 5 PAs, Actively managed in 1–4 PAs, Not actively managed, and Unknown.	Management interventions / Management details		x	
Managment	Population	INSITU_MANAGE_UR L	Management URL. Any links to management plans and activities related to the <i>in situ</i> population. May be the same as CONSACTION	х	х	Х								Х	

Ex situ	Population	COLLSITE	Collecting site. Location information below the	X	X 2	K	Х	Location of	Location of	COLLSITE. The			
			country level that describes where the					occurence site:	collecting site:	location of the			
			accession was collected. This may be the same					Location	Location	occurrence site			
			as OCCURSITE. preferable in English. This might					information below	information	[herbarium			
			include the distance in kilometres and direction					the country level	below the	specimen OR			
			from the nearest town, village or map grid					where the	country level	genebank			
			reference point, (e.g. 7 km south of Curitiba in					population sample	that describes	accession OR the			
			the state of Parana). If a smaple was not					was observed. This	where the	field observation			
			collected for ex situ conservation leave this field					might include the	accession was	OR the site			
			blank.					distance in km and	collected,	referred to in a			
								direction from the	preferable in	bibliographic			
								nearest town,	English. This	reference OR			
									might include	internet OR from			
								reference point	the distance in	a personal			
								(e.g. 7km east of	kilometres and	communication]:			
								Wageningen in the		location			
								province of	the nearest	information			
										below the lowest			
								The name and	map grid	administrative			
								description of this	reference point,	level (for each			
								descriptor have	(e.g. 7 km south	country) that			
								been changed to	of Curitiba in the	describes where			
								apply to in situ	state of Parana).	the accession			
								CWR.		was collected,			
										preferably in			
										English. This			
										might include the			
										distance in			
										kilometres and			
										direction from			
										the nearest town,			
										village or map			
										grid reference			
										point, (e.g. 7 km			
										south of Curitiba			
										in the state of			
										Parana).			
										raiaiiaj.			

Ex situ	Population	INSTCODE	Institute code. Code of the institute where the accession is maintained. The codes consist of the 3-letter ISO 3166 country code of the country where the institute is located plus a number. The current set of Institute Codes is available from the FAO website (http://apps3.fao.org/wiews/).	x	x	x	x	FAO WIEWS code of the institution responsible for, and/or organization that manages the CWR population (e.g. protected area authority, nature reserve manager, national park manager, private landowner, etc.). The codes consist of the Three-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from http:// www.fao.org/ wlews. For those institutes not yet having a FAO WIEWS code, or for those with 'obsolete' codes, see section 'General formatting rules'.  NOTE: This description deviates from the ex situ upload format.	FAO WIEWS code of the institute where the accession is maintained. The codes consist of the 3-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from http://www.fao.org/wiews.For those institutes not yet having an FAO Code, or for those with 'obsolete' codes, see 'Common formatting rules (vy'.	samples (32.5.2) FAO WIEWS institute code or Index Herbariorum code of the institute where the ex situ accession/herbarium specimen is maintained, or both. FAO WIEWS institute code (http://www.fao.org/wiews) Index Herbariorum code	The institute code where herbarium specimen/geneb ank accession was seen or held or the institute that organized that field work. For herbarium specimens: use the Index Herbariorum available at: http://sweetgum. Programmers with the field work. For herbarium specimens: use the Index Herbariorum available at: http://sweetgum. Programmers with the Index accessions: use the FAO WIEWS code of the institute where the genebank accession is maintained. The codes consist of the 3-letter ISO 3166 country code of the country where the institute is located plus a number (e.g. COL001). The current set of institute codes is available from thttp://apps3.fao. org/wiews/wiews.jsp. For other institutes not listed in the FAO WIEWS nor in Index WieWS nor in Index with NA code and only fill with NA code and only		Institute code: FAO WIEWS code of the institute (see: http://apps3.f nstitute_query .htm?i_j=EN) who is responsible at the national level for the production of the National in situ LR Inventory. Example: NLD037	
Ex situ	Population	INSTNAME	Institute name. Name of the institute, legal entity, herbarium, or individual where collected population samples are held (e.g., local or national genebank, herbarium or landowner). If the Managing institute holds the material, the holding institute name should be the same as the Managing institute.	х	x	х	х	INSTNAME. Name and short address of the organization that manages the CWR population (e.g. protected area authority, nature reserve manager, national park manager, private landowner, etc.). This descriptor only if INSTCODE has the value DUMMY because the CWR WEWL ode for this institute is not available.		Name of the institute, legal entity, herbarium, or individual where collected population samples are held (e.g., local or national genebank, herbarium or landowner). If the Managing institute holds the material, the holding institute name should be the same as the Managing institute.	DataFormat.xlsx' from CAPFITOGEN package.  INSTNAME. The name of institute where herbarium specimen/geneba nk accession was seen or held or the institute that organized the field work. INSTNAME corresponds to the descriptor SIOURCE present in the ExternalSourcesD ataFormat.xlsx' from CAPFITOGEN package.			

Ex situ / In situ networking	Population	ACCENUMB	Accession number. This is the unique identifier for accessions within a genebank, and is assigned when a sample is entered into the genebank collection (e.g. PI 113869').	x	x	x	x	LRT, IN	This is the unique identifier for CWR populations maintained in situ and is assigned by the organization managing the population. description deviates from the ex situ upload format.	This is the unique identifier for accessions within a genebank, and is assigned when a sample is entered into the genebank and collection (e.g. 'PI 113869').		ACCENUMB. The accession number: this is the unique identifier for accessions within a genebank, and is assigned when accessions within a genebank, and is assigned when entered into the entered into the genebank collection (e.g., 'PI 113869'). Avoid duplicated codes or numbers in this field. You may use consecutive numbers here and associate them with other genebank codes. NA code is not allowed for gene bank accessions. A CCENUMB = IDSOURCE. The unique identifier unique ident			
Ex situ / In situ networking	Population	ACCEDOI	Accession DOI. This is the unique identifier for accessions or specimens collected (e.g., genebank, herbarium, etc.) and is assigned when a sample/specimen is entered into the collection. Ex situ accession DOI	х	х	x	x	LRT, IN			Ex situ accession DOI. This is the unique identifier for accessions or specimens collected (e.g., genebank, herbarium, etc.) and is assigned when a sample/specim en is entered into the collection.				
Ex situ	Population	ACCEURL	Accession URL. URL linking to additional data about the ex situ accession, which isn't included above	х	Х	Х									х
Ex situ / In situ networking	Population	STORAGE	Type of germplasm storage. 60 in situ wild populations 70 in situ landrace 80 in situ Wild Harvest Plant (WHP)	x	x	x	х	LRT, IN	For in situ CWR populations, this descriptor should always have the value 60. 60: in situ wild population NOTE: Status 60 is a new status! The description of this descriptor has been changed to apply to in situ CWR.	allowed, separated by a semicolon (e.g.					Added "70 In situ landrace" and "80 In situ Wild Harvested Plant"

Monitoring / In situ networking	Taxon	NATIONAL_CAT	National red list category. The Red List category according to national criteria. CR: Critically	Х	х	Х	RL, IN		I IT	IATIONAL_CAT.	Red list assessment			IUCN (2018)
			endangered; EN: Endangered; VU: Vulnerable; NT: Near threatened; LC: Least concern; DD: Data deficient; NE: Not evaluated. NOTE: Use the most recent assessment. Enter 'NA' if no national category is used. This descriptor is useful for IUCN red listing.						n W F a n u a c	ategory coording to attional criteria when an IUCN ted List ssessment has ot been ndertaken, or in ddition to IUCN ategory. Enter VA' if no national ategory is used.				
Monitoring / In situ networking	Taxon	REGIONAL_CAT	Regional red list category. The regional Red List category for the taxon. CR: Critically endangered; EN: Endangered; UV: Vulnerable: NT: Near threatened; LC: Least concern; DD: Data deficient; NE: Not evaluated. NOTE: Use the most recent assessment. Enter NA: fin on autional category is used. This descriptor is useful for IUCN red listing.	х	х	х	RL, IN						x	IUCN (2018)
Monitoring / In situ networking	Taxon	THREAT_URL	Threat URL link to the NATIONAL_CAT or REGIONAL_CAT for the Red List. Record information in the format "NATIONAL_CAT:REF or REGIONAL_CAT:REF i.e. REGIONAL_CAT: https://www.lucnredist.org/seces/1623/755/410 4. This descriptor is useful for IUCN red listing.	x	x	x	RL, IN		FR PR	REDLIST_REMA RES. Additional marks regarding ne Red List latus of the axon. Prefix emarks with the escriptor name hely refer to and low by a colon ). Remarks elerting to effering to escriptors are eparated by emicolons (;) without space.				IUCN (2018)
Monitoring	Population	LRCULTPER	Landrace cultivation period. The length of time the LR was cultivated on that farm as from farmer memory, i.e. cultivated for an unknown number of years, over 50 years, less than 50 years; in the latter case it can be specified the time. See codes in the table below: Code Specific code Does not answer 10 Over 50years 20 Under 50years 30 Less than 10 years ago 31 11-25 years ago 32 26-50 years ago 33		x							Landrace cultivation period: The length of time the LR was cultivated on that farm as from farmer memory, i.e. cultivated for an unknown number of years, over 50 years, less than 50 years; in the latter case it can be specified the time. See codes in the table below: Code Specific code Does not answer 10 Over 50 years 30 Less than 10 years ago 31 11-25 years ago 31 11-25 years ago 31 26-50 years ago 33		

Monitoring	Population	LRSTATUS	Landrace status. The status of the LR on that	X	LRT		final_cult_stat.		The status of	
			farm, i.e. whether inherent the farm or				Whether the population is: wild,		the LR on that	
			reintroduced in the farm as from farmer				population is: wild, weedy, cultivated,		farm, i.e.	
			statement. For 'inherent the farm' a cultivation				escaped (from		whether	
			period over 25 years in that farm should be				cultivation) or		inherent the	
			intended. If introduced/reintroduced from				unknown as per the record. NA is		farm or	
			other farms it can be specified from where. See				applicable when		reintroduced	
			codes in the table below. To be eventually				there is no		in the farm as	
			elaborated in REMARKS.				information		from farmer	
			Code:				available. final_origin_stat.		statement. For	
			10 Does not answer				Whether the		'inherent the	
			20 Inherent (should match with LRCULTPER 20				population is		farm' a	
			or 33)				native, introduced or unknown as per		cultivation period over 25	
			30 Reintroduced by the family which presently cultivates the LR from a different estate				the record. NA is		years in that	
			belonging to the same family. Provide details				applicable when		farm should	
			under REMARKS.				there is no		be intended. If	
			40 Introduced/Reintroduced from gene bank.				information available.		introduced/rei	
			Provide Gene Bank name in REMARKS				available.		ntroduced	
			50 Introduced/Reintroduced from other farms:						from other	
			51 Neighbouring farm						farms it can	
			52 Farm in the same district						be specified	
			53 Farm in different district/country						from where.	
			60 Introduced/Reintroduced from the seed						See codes in	
			market						the table	
			99 Other (elaborate in REMARKS)						below. To be	
									eventually	
									elaborated in	
									REMARKS.	
									Code:	
									10 Does not answer	
									20 Inherent	
									(should match	
									with	
									LRCULTPER 20	
									or 33)	
									30	
									Reintroduced	
									by the family	
									which	
									presently	
									cultivates the	
									LR from a	
									different	
									estate	
									belonging to	
									the same family. Provide	
									details under	
									REMARKS.	
									40	
									Introduced/Re	
									introduced	
									from gene	
									bank. Provide	
									Gene Bank	
									name in	
									REMARKS	
									50	
									Introduced/Re	
									introduced from other	
									from other farms:	
									farms: 51	
									Neighbouring	
									farm	
									52 Farm in the	
									same district	
									53 Farm in	
									different	
									district/countr	
									у	
									60	
									Introduced/Re	
									introduced	
									from the seed	
									market	
									99 Other (elaborate in	
									(elaborate in REMARKS)	
									KEIVIMKA)	

Monitoring	Population	MOD_CULT	Modern cultivars. The extent of modern cultivars grown near to the LR / CWR or WHP.  10 - 10% area 20 - 20% area 30 - 30% area 40 - 40% area 50 - 50% area 60 - 60% area 70 - 70% area 80 - 80% area 90 - 90% area 90 - 90% area	x	x :	x	LRT					X	Almeida M.J., (2024)
Utilisation	Population	LRSSS	Landrace seed / propogation material supply system. From where the seed (or propagation material in general) nitially came, as from farmer statement.  See codes in the table below. Code:  Informal sector 10 Own family harvest 11 Exchanges with relatives, neighbours 12 Exchanges between close villages via barter system 13 Local / regional market 14 Formal sector 20 Certified material from the seed market 21 Genebank (to be specified from which genebank in REMARKS) 22 Does not answer 30 Other (elaborate in REMARKS) 99		x						Landrace seed / propogation material supply system: From where the seed (or propagation material in general) initially came, as from farmer statement. See codes in the table below. Code: Informal sector 10 Own family harvest 11 Exchanges with relatives, neighbours 12 Exchanges between close villages via barter system 13 Local / regional market 14 Formal sector 20 Certified market 21 Genebank (to be specified from which genebank in REMARKS) 22 Does not answer 30 Other (elaborate in REMARKS) 99		
Monitoring	Population	LRCONT	Landrace continuity, Whether the LR maintainer plans to continuite to grow LR for the foreseeable future. See codes in the table below.  Undecided 10 Will stop next year 20 Will continue, but considers changing within a few years 30 Will continue as long as possible 40 Other (elaborate in REMARKS) 99		X		LRT				Landrace continuity: Whether the LR maintainer plans to continuit to grow LR for the foreseeable future. See codes in the table below. Undecided 10 Will stop next year 20 Will continue, but considers changing within a few years 30 Will continue as long as possible 40 Other (elaborate in REMARKS) 99		

Monitoring	Population	WHPCONT	Wild Harvested Plant continuity. whether the		x						х	
			person / people harvesting the wild species plan to continue to do this.  10 Undecided 20 Will stop next year 30 Will continue, but considers changing within a few years 40 Will continue as long as possible 99 Other (elaborate in REMARKS)									
Utilisation	Population	LRDISTR	Landrace distribution. Whether the LR maintainer plans to give/exchange the LR to/with other growers. If Prés, fields related to 'to whom' can be filled in. See codes in the table below. Yes 10 To whom: relative 11 friend or neighbour 12 another grower 13 seed/seedlings-swap event 14 plant genebank 15 No 20 Undecided 30	х						Landrace distribution: Whether the LR maintainer plans to give/exchange the LR to/with other growers. If Yes', fields related to 'to whom' can be filled in. See codes in the table below. Yes 10 To whom: relative 11 friend or neighbour 12 another grower 13 seed/ seed// seed// saved/landrace/ swap event 14 plant genebank 15 No 20 Undecided 30		
Monitoring	Population	LRTHREATF	Loss risk as for the maintainer. Risk of losing this LR or WHP as perceived by the interviewed farmer/harvester. It helps to decide if conservation is needed and plan monitoring actions. See codes in the table below.  Does not answer/know 10  Null / scarce 20  Low 30  Medium 40  High 50  Other (elaborate in REMARKS) 99	×	×					Loss risk as for the farmer: Risk of losing this LR as perceived by the interviewed farmer. It helps to decide if conservation is needed and plan monitoring actions. See codes in the table below. Does not answer/know 10 Null / scarce 20 Low 30 Medium 40 High 50 Other (elaborate in REMARKS) 99	Added "WHP" into description	

Monitoring	Population	LRTHREATCT	Loss risk as assessed by the surveying team: Risk of losing this LR or WHP as perceived by the team recording data. It helps to decide if conservation is needed and plan monitoring actions. See codes in the table below. Unable to judge/assess 10 Null / scarce 20 Low 30 Medium 40 High 50 Other (elaborate in REMARKS) 99		x	x										Loss risk as assessed by the collecting team: Risk of losing this LR as perceived by the team recording data. It helps to decide if conservation is needed and plan monitoring actions. See codes in the table below. Unable to judge/assess 10 Null / scarce 20 Low 30 Medium 40 High 50 Other (elaborate in REMARKS) 99	Added "WHP" into description	
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Utilisation	Population	MOTIVE_GH	Motivations for growing as because at	v	v					 LRFARMERMO	Added "WHP"	
Odlisadori	Population	WOTIVE_GR	Motivations for growing or harvesting the taxon.	^	^					T. Farmer	into	
			Agronomical traits 10							motivations	description	
			Easy/simple cultivation required 11							for growing		
			Precocity (early development or maturity) 12							the landrace:		
			Lateness 13							Reason + Code		
			Lodging resistance 14 High yield 15							Agronomical		
			Stable yield 16							traits 10		
			Resistance to stresses 20							Easy/simple		
			Abiotic factors 21							cultivation		
			cold 211							required 11		
			drought 212							Precocity		
			high humidity 213 salinity 214							(early development		
			Biotic factors 22							or maturity)		
			fungal/bacterial/virus 221							12		
			insect/nematode/etc 222							Lateness 13		
			Cultural and religious motivations 30							Lodging		
			Personal affection 31 Special family food preparations 32							resistance 14 High yield 15		
			Special family rood preparations 32 Special family ceremonies 33							Stable yield		
			Ritual or religious use of the community 34							16		
			Local fairs/festivals 35							Resistance to		
			Historical/collector/amateur interest 36							stresses 20		
			Quality traits(taste, fragrance, colour, etc.) 40							Abiotic		
			Market traits (good storability, easy transformation etc.) 50							factors 21 cold 211		
			Other (Elaborate in REMARKS) 99							drought 212		
			- Land Control of the							high humidity		
										213		
										salinity 214		
										Biotic factors		
										22		
										fungal/bacteri		
										al/virus 221		
										insect/nemato		
										de/etc 222		
										Cultural and religious		
										motivations		
										30		
										Personal		
										affection 31		
										Special family		
										food preparations		
										32		
										Special family		
										ceremonies 33		
										Ritual or		
										religious use		
										of the community 34		
										Local		
										fairs/festivals		
										35		
										I lists of a side.		
										Historical/colle ctor/amateur		
										interest 36		
										Quality		
										traits(taste,		
										fragrance,		
										colour, etc.) 40		
										Market traits (good		
										storability,		
										easy		
										transformatio		
										n etc.) 50		
										Other		
										(Elaborate in REMARKS) 99		
										WEINWWY) 33		

Utilisation	Population	LRSELCRI	Landrace selection criteria. The main criteria used when selecting material for propagation. See codes in the table below. Code Yield 10 Organ size 20 Taste 30 Colour 40 Shape 50 Uniformity 60 Other (Elaborate in REMARKS) 99	х							LRFARMERSEL CRI: Farmer LR selection criteria: The main criteria farmer uses when selecting material for propagation. See codes in the table below. Code Yield 10 Organ size 20 Taste 30 Colour 40 Shape 50 Uniformity 60 Other (Elaborate in REMARKS) 99	
Utilisation	Taxon	PPU	Part of the plant used. Part/s of the plant used. See codes in the table below. Multiple choices are allowed separated by a semicolon (j.) without space. Code Entire plant 10 Branch 20 Seedling/germinated seed 30 Gall 40 Stem/trunk 50 Bark 60 Leaf 70 Flower/inflorescence 80 Fruit/infructescence 90 Seed 100 Root/corm 110 Exudate 120 Other (Elaborate in REMARKS) 999	X	X					used: Part's of the plant used. See codes in the table below. Multiple choices are allowed separated by a semicolon (;) without space (Bioversity and The Christensen Fund, 2009). Code Entire plant 10 Branch 20 Seedling/ gerlinated seed 30 Gall 40 Leaf 70 Flower/ inflorescence 80 Fruit/ inflorescence 80 Fruit/ infructscence 90 Seed 100 Root/corm 110 Exudate 120 Orber (Elaborate in REMARKS) 999	Entire plant 10 Branch 20 Seedling/ germinated seed 30 Gall 40 Stem/trunk 50 Bark 60 Leaf 70 Flower/ inforescence 80	

Litilication	Tayon	TAYON DOOD LICE	Broducture Type of use of the available	v	v						Product	
Utilisation	Taxon		Product use. Type of use of the product obtained from the taxon (excluding use as a genetic resources in breeding for crop improvement); if as direct product or as processed product for larger use. Multiple choices are allowed separated by a semicolon (;) without space. As direct product 10 Food - human 11 Food - animal 12 Spice - aromatic 13 Medicinal purpose 14 Fuel 15 Ornamental purpose 16 As processed product 20 Bakery product 21 Long term storage culinary product (e.g. canned food) 22 Distillery product 23 For oil extraction 24 For textle fibers production 25 Other household goods 26 Construction material 27 Research 40 Unknown 90 Other (elaborate in REMARKS) 99	*							Product use: Type of use of the product obtained from the LR: if as direct product or as processed product for larger use, as from farmer statement. See codes in the table below. Multiple choices are allowed separated by a semicolon (;) without space. As direct product 10 Fodder 12 Spice- vegetable, soups) 11 Fodder 12 Spice- vegetable, soups) 11 Fodder 12 Spice- Spores 15 Ornamental purpose 16 As processed product 20 Bakery product 21 Long term storage culinary product 23 For oil extraction 24 For textile fibers production 25 Other(elabora te in REMARKS) 99	
Utilisation	Taxon		Main destination of the product. Where the product from the harvested plant is mainly destined for use. See codes in the table below. Owner's household 10 Market 20 in local market 21 in district / regional markets 22 national markets 23 international sale 24 Other (elaborate in REMARKS) 99	x	x					Main destination of the product: Where the product from the LR is mainly destined for use, as from farmer statement. See codes in the table below. Owner's household 10 Market 20 in local market 21 in district / regional markets 22 national markets 23 international sale 24 Other (elaborate in REMARKS) 99	Main destination of the product: Where the product from the LR is mainly destined for use, as from farmer statement. See codes in the table below. Owner's household 10 Market 20 in local market 21 in district / regional markets 22 national markets 23 international sale 24 Other (elaborate in REMARKS) 99	

Utilisation	Taxon	MARKTDEMAND	Market demand. Demand for the product. See codes in the table below. Does not answer 10 Strong existing market demand 20 Growing market demand 30 Stable market demand 40 Falling market demand 50 Other (elaborate in REMARKS) 99		X	х	LRT					Market landrace demand: Demand for LR / LR product as from farmer statement. See codes in the table below. Code Does not answer 10 Strong existing market demand 20 Growing market demand 30 Stable market demand 40 Falling market demand 50 Other (elaborate in REMARKS) 99	
Utilisation	Taxon	BREED_USE	Breeding use. Description of the use the taxon has had or potentially can have in plant breeding for crop improvement, or of the traits known to exist or already donated to the crop. E.g. 'Resistance to broom rape', 'Improved protein content,' Tolerance of water-logging', 'Bridge species for further taxon crossing'. If no breeding use is known, enter 'Unknown'.		x	х				BREED_USE. Description of the use the taxon has had or potentially can have in plant breeding for crop improvement, or of the traits known to exist or already donated to the crop. E.g. Resistance to broom rape', "Improved protein content," Tolerance of water-logging', 'Bridge species for further taxon crossing'. If no breeding use is known, enter 'Unknown'.			
Utilisation	Taxon	POTENTIAL_CONFIR MED	Potential confirmed. Whether the taxon has been used to successfully improve crops, or has traits which have the potential to improve crops in the future. Permitted values are: Potential, Confirmed, and Unknown.		X	х				POTENTIAL_CNFI RMED. Whether the taxon has been used to successfully improve crops, or has traits which have the potential to improve crops in the future. Permitted values are: Potential, Confirmed, and Unknown.			
Utilisation	Taxon	BREED_REF	Breeding use reference. The reference(s) to the data source describing the actual or potential use of the taxon in breeding for crop improvement. Multiple references are separated by a semicolon (;) without space.	x	х	Х				BREED_REF. The reference(s) to the data source describing the actual or potential use of the taxon in breeding for crop improvement. Multiple references are separated by a semicolon (;) without space.			

Utilisation	Taxon	BREED_RELATED_CR OP	Breeding use related crop. The scientific name(s) of the crop(s), which has/have been or potentially could be improved using the CWR taxon, in Latin. Multiple entries are separated by a semicolon (;) without space.	x	x	х				BREED_RELATED_ CROP The scientific name(s) of the crop(s), which has/have been or potentially could be improved using the CWR taxon, in Latin. Multiple entries are separated by a semicolon (;) without space. E.g. Triticum aestivum L.			
Utilisation	Taxon	BREED_COMMON_C ROP_NAME	Breeding common crop name. The common name(s) of the crop(s) which has/have been or potentially could be improved using the CWR taxon. Multiple entries are separated by a semicolon (;) without space.	x	х	x				COMMON_CROP_NAME. The common name(s) of the crop(s) to which the taxon is related. Multiple entries are separated by a semicolon (;) without space. BREED_COMMON_CROP_NAME. The common name(s) of the crop(s) which has/have been or potentially could be improved using the CWR taxon. Multiple entries are separated by a semicolon (;) without space.			
Utilisation	Taxon	PROP_ORGAN	Propagation organ Part of the plant used for propagation. Bulb, cloves, cuttings, offshoots of he main root, root, root sprouts, scion wood, seed or tuber		x						Propagation organ Part of the plant used for propagation. Bulb, cloves, cuttings, offshoots of he main root, root sprouts, scion wood, seed or tuber		
Utilisation	Taxon	MULTI_ACTOR	Multiplication actors Who multiplies the material? A single person, public body or seed company		x						Multiplication actors Who multiplies the material? A single farmer, Farmer's private body, public body or seed company		
Utilisation	Taxon	MAT_EX	Material exchange Multiplication material exchange among farmers/gardeners within the cultivation area. Yes/No		x						Material exchange Multiplication material exchange among farmers/gardene rs within the cultivation area. Yes/No		
Utilisation	Taxon	CHARACTERIZATION	Characerization. Does the related crop have characterization descriptors? Check https://cgspace.cgiar.org/collections/835fa638- 0167-4669-9532-ffc488facc94 0 NO 1 YES	Х	х	х						х	

Utilisation	Taxon	USE_REMARKS	Use remarks. Additional remarks regarding the Itaxon uses. Prefix remarks with the descriptor name they refer to and follow by a colon (:). Remarks referring to different descriptors are separated by semicolons (;) without space.	X		X.				USE_REMARKS. Additional remarks regarding the taxon uses. Prefix remarks with the descriptor name they refer to and follow by a colon (). Remarks referring to different descriptors are separated by semicolons () without space.	Uses.		
Utilisation	Taxon	SOCIOECO_CROP	Socioeconomic crop. The common name of the crop or crop group to which the socio-economic data is provided.	x x	>	×.				The common name of the crop or crop group to which the socio- economic data is provided.			Wieczorek. J., et al. (2012) Darwin Core. "CultivaedP lantNameEl ements"
Utilisation	Taxon	N	Socio-economic criterion. The socioeconomic criterion used to define the value of the related crop or crop group. A number of criteria can be used, just two are listed here as examples: (i) calorific value: average annual contribution of crop/crop groups to dietary energy per capita per day over a certain period of time (e.g. last 10 years); (ii) production value: average annual production value over a certain period of time (e.g. last 10 years). Multiple values can be entered, seperated with a semicolon (;) without space	x x		×				SOCIOECO_CRITE RION_1. Socio- conomic criterion used to define the value of the related crop or crop group. A number of criteria can be used, just two are listed here as examples: (i) calorific value: average annual contribution of crop/crop groups to dietary energy per capita per day over a certain period of time (e.g. last 10 years); (ii) production value: average annual production value: average annual production value over a certain period of time (e.g. last 10 years). E.g. Gross Production Value (constant 2004-2006 1000 IS)			
Utilisation	Taxon	SOCIOECO_VALUE	Socioeconomic value. The numerical value of the socio-economic criterion described in SOCIOECO_CRITERION	x	<b>&gt;</b>	×				SOCIOECO_VALU E_1. The numerical value of the socio- economic criterion described in SOCIOECO_CRITE RION_1.			

Utilisation	Taxon	SOCIOECO_VALUE_U NIT	Socio-economic value unit. The numerical value unit of of the socio-economic criterion described in SOCIOECO_CRITERION. For monetary value units use the monetary standards at http://www.currency-iso.org/en/home/tables/table-a1.html to indicate the currency.		x	х				SOCIOECO_VALU E_UNIT_1. The numerical value unit of of the socio-economic criterion described in SOCIOECO_CRITE RION_1. For monetary value units use the monetary standards at http://www.curre ncy-iso.org/en/h ome/tables/table -a1.html to indicate the currency.			
Utilisation	Taxon	SOCIOECO_VALUE_L EVEL	Socioeconomic value level. The level at which the socio-economic value of the related crop or crop group in SOCIOECO VALUE is provided. E.g. global, regional (which region), national (which country).	x	x	x				SOCIOECO_VALU E_LEVEL_1. The level at which the socio-economic value of the related crop or crop group in SOCIOECO_VALU E_1 is provided. E.g. global, regional (which region), national (which country).			
Utilisation	Taxon	SOCIOECO_VALUE_R EF	Socio-economic value reference. The reference(s) for the socio-economic value of the related crop or crop group. Multiple entries are separated by semicolon (;) without space.	x	x	X				SOCIOECO_VALU E_REF_1. The reference(s) for the socio- economic value 1 of the related crop or crop group. Multiple entries are separated by semicolon (;) without space.			
Utilisation	Taxon	SOCIOECO_REMARKS	Socio-economic remarks. Additional remarks regarding the socio-economic criteria, values, units or levels used. Prefix remarks with the descriptor name they refer to and follow by a colon (1). Remarks referring to different descriptors are separated by semicolons (;) without space.	x	х	х				Additional remarks regarding the socio-economic criteria, values, units or levels used. Prefix remarks with the descriptor name they refer to and follow by a colon (). Remarks referring to different descriptors are separated by semicolons (;) without space.			
Utilisation	Taxon	PRODUCT_DESIG	Product designation. Type of geographical designation label PDO, PGI and other national designations		х	х					Geographical designation. Type of geographical designation label PDO, PGI and other national designations		
Utilisation	Taxon	PRODUCT_LABEL	Product label. Type of other label or brands Commercial brand, quality label		х	Х					Other labels or brands Type of other label or brands Commercial brand, quality label		

Utilisation	Taxon	TAXON_REG	Taxon register.Type of register in which the landrace or WHP is listed. 10 National register 20 Other registers		х	х							Register Type of register in which the landrace is listed. National register or other registers		
Utilisation	Taxon	TAXON_PROMO	Taxon promotion. Extent of taxon promotion activities. Specific to LR and WHP Local, national or international		х	х							Promotion. Extent of landrace promotion activities. Local, national or international		
Other	Taxon / Population	REMARKS	Remarks. The remarks field is used to add notes or to elaborate on descriptors. Prefix remarks with the field name they refer to and make them follow by a colon (2). Distinct remarks referring to different fields are separated by semicolons (;) without space. Examples: The farmer often observes flower colour instability, PRODUCTUSE: chaff also used for fuel pellet and pillow filling; LRMARKTDEMAND: falling locally but growing in the district nearby.	х	х	x	x	The remarks field is used to add notes or delaborate or elaborate on descriptors with value 99 or 999 (COHer). Prefix remarks with the field name they refer to and a colon (;) without space (e.g. COLLSRC:riverside). Distinct remarks referring to different fields are separated by semicolons without space.	The remarks field is used to add notes or to elaborate on descriptors with value 99 or 999 (« Other). Prefix remarks with the field name they refer to and a colon (;) without space (e.g COLLSRC:riverside). Distinct remarks referring to different fields are separated by semicolons without space.	99 or 999 (= Other). Prefix remarks with the field name they refer to and a colon (:) without space (e.g. SITESTAT:river side). Distinct remarks referring to different fields are separated by semicolons without space.	x	х	x	x	
Other	Taxon / Population	COMMENTS	Comments. Comments on data recording issues. The surname and initials of the person making the comment should be written followed by the comment (e.g. J Magos Brehm: the record was)	х	х	х	х				х				

ADM field	s_per_country					
ORIGCTY	NAMECTY	ADM1	ADM2	ADM3	ADM4	
ABW	Aruba	NA NA	NA NA	NA NA	NA NA	
AFG	Afghanistan	Province	NA NA	NA	NA	
AGO	Angola	Province	Municpality   City Council	Commune	NA	
AIA	Anguilla	NA	NA NA	NA	NA	
ALA	Åland	Municipality	NA NA	NA NA	NA	
ALB	Albania		District	Bashkia	NA NA	
ALB	Albania	County			NA NA	
		County	District	Commune		
ALB	Albania	County	District	Water body	NA	
AND	Andorra	Parish	NA NA	NA	NA	
ARE	United Arab Emirates	Emirate	NA	NA	NA	
ARG	Argentina	Province	Department	NA	NA	
ARG	Argentina	Province	Part	NA	NA	
ARG	Argentina	National Territory	Department	NA	NA	
ARG	Argentina	Federal District	Federal District	NA	NA	
ARM	Armenia	Province	NA	NA	NA	
ARM	Armenia	Water body	NA	NA	NA	
ARM	Armenia	City	NA	NA	NA	
ASM	American Samoa	District	County	Village	NA	
ASM	American Samoa	District	County	NA	NA	
ATA	Antarctica	NA	NA	NA	NA	
ATF	French Southern Territories	District	NA	NA	NA	
ATG	Antigua and Barbuda	Dependency	NA	NA	NA	
ATG	Antigua and Barbuda	Parish	NA	NA	NA	
AUS	Australia	State	Shire	NA	NA	
AUS	Australia	State	City	NA	NA	
AUS	Australia	State	District Council	NA	NA	
AUS	Australia	State	Municipality/Municipal Council	NA NA	NA	
AUS	Australia	State	Rural City	NA	NA	
AUS	Australia	State	Unknown	NA NA	NA NA	
AUS	Australia	State	Aboriginal Council	NA NA	NA NA	
AUS	Australia	Territory	Unknown	NA	NA	
AUS	Australia	Territory	Community Government Council	NA	NA	
AUS	Australia	State	Town	NA	NA	
AUS	Australia	State	Community Government Council	NA	NA	
AUS	Australia	Territory	Town	NA	NA	
AUS	Australia	State	Municipality / Mun. Council	NA	NA	
AUS	Australia	Territory	Shire	NA	NA	
AUS	Australia	Territory	City	NA	NA	
AUS	Australia	State	NA	NA	NA	
AUS	Australia	State	Borough	NA	NA	
AUT	Austria	State	District	NA	NA	
AUT	Austria	State	Statutory City	NA	NA	
AUT	Austria	State	NA	NA	NA	
AZE	Azerbaijan	District	NA	NA	NA	
AZE	Azerbaijan	City	NA	NA	NA	
BDI	Burundi	Province	Commune	Colline	Sous Colline	
BDI	Burundi	Province	Water body	Water body	Water body	
BDI	Burundi	Province	Commune	Water body	Water body Water body	
				· ·	•	
BDI	Burundi	Province	Commune	NA	NA	
BEL	Belgium	Region	Province	Arrondissement	Commune	
BEL	Belgium	Region	Capital Region	Arrondissement	Commune	
BEN	Benin	Department	Commune	NA	NA	
BES	Bonaire, Saint Eustatius and Saba	NA	NA	NA	NA	
BFA	Burkina Faso	Province	Department	NA	NA	
BGD	Bangladesh	Division	NA	District	Sub-district	
BGR	Bulgaria	Province	Municipality	NA	NA	
BGR	Bulgaria	Province	City	NA	NA	
BHR	Bahrain	Governorate	NA	NA	NA	
BHS	Bahamas	District	NA	NA	NA	
BIH	Bosnia and Herzegovina	Entity	Canton	Commune	NA	
BIH	Bosnia and Herzegovina	District	NA	Commune	NA	
BLM	Saint-Barthélemy	NA	NA	NA	NA	
BLR	Belarus	Region	District	NA	NA	
BLZ	Belize	District	NA	NA	NA	
BMU	Bermuda	Parish	NA	NA	NA	
BMU	Bermuda	Municipality	NA	NA	NA	
BOL	Bolivia	Department	Province	Municipality	NA	
BRA	Brazil	State	Municipality	District	NA	
BRA	Brazil	Federal District	Administrative Region	District	NA NA	
BRA		State		NA	NA NA	
	Brazil		Outlying Island			
BRB	Barbados	Parish	NA N	NA NA	NA	
BRN	Brunei	District	Mukim	NA	NA	
BTN	Bhutan	District	Unknown	NA	NA	
BVT	Bouvet Island	NA	NA	NA	NA	
BWA	Botswana	District	Unknown	NA	NA	
BWA	Botswana	District	Town Council	NA	NA	
BWA	Botswana	District	Sub-district	NA	NA	
CA-	Caspian Sea	NA	NA	NA	NA	
CAF	Central African Republic	Prefecture	Sub-prefecture	NA	NA	
CAF	Central African Republic	Economic Prefecture	Sub-prefecture	NA	NA	
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CAF	Central African Republic	Autonomous Commune	Sub-prefecture	NA	NA	
CAN	Canada	Province	Census Division	Municipal District	NA	
CAN	Canada	Province	Census Division	Summer Village	NA	
CAN	Canada	Province	Regional District	Regional District Electoral Area	NA	
CAN	Canada	Province	Regional District	District Municipality	NA	
CAN	Canada	Province	Census Division	Village	NA	
CAN	Canada	Province	Regional District	Indian Reserve	NA	
CAN	Canada	Province	Census Division	Rural Municipality	NA	
CAN	Canada	Province	Census Division	Town	NA	
CAN	Canada	Province	Regional District	City	NA	
CAN	Canada	Province	County	Village Nordique	NA	
CAN	Canada	Province	Census Division	Indian Reserve	NA	
CAN	Canada	Province	Census Division	City	NA	
CAN	Canada	Province	Census Division	Unorganized	NA	
CAN	Canada	Territory	Region	Hamlet	NA	
CAN	Canada	Province	Census Division	Subdivision of Unorganized	NA	
CAN	Canada	Province	District	Indian Reserve	NA	
CAN	Canada	Territory	Region	Unorganized	NA	
CAN	Canada	-	-	Town	NA	
		Territory	Region			
CAN	Canada	Territory	Region	Chartered Community	NA	
CAN	Canada	Province	County	Inuite Land	NA	
CAN	Canada	Province	Regional District	Nisga'a Village	NA	
CAN	Canada	Province	County	Village Cri	NA	
CAN	Canada	Province	Census Division	Northern Village	NA	
CAN	Canada	Province	Census Division	Resort Village	NA	
CAN	Canada	Province	Region	Indian Reserve	NA	
CAN	Canada	Province	Census Division	County Municipality	NA	
CAN	Canada	Province	Regional District	Village	NA	
CAN	Canada	Province	District	Indian Settlement	NA	
CAN	Canada	Province	Census Division	Ville	NA	
CAN	Canada	Province	Regional County Municipality	Unorganized	NA	
CAN	Canada	Province	Census Division	Improvement District	NA	
				·		
CAN	Canada	Province	Regional District	Town	NA	
CAN	Canada	Territory	Territory	Indian Reserve	NA	
CAN	Canada	Territory	Region	Settlement	NA	
CAN	Canada	Territory	Territory	Indian Settlement	NA	
CAN	Canada	Territory	Territory	Hamlet	NA	
CAN	Canada	Territory	Region	Indian Reserve	NA	
CAN	Canada	Province	Census Division	Regional Municipality	NA	
CAN	Canada	Province	Region	Indian Settlement	NA	
CAN	Canada	Province	Regional District	Indian Settlement	NA	
CAN	Canada	Province	Census Division	Indian Settlement	NA	
CAN	Canada	Province	Census Division	Northern Hamlet	NA	
CAN	Canada	Territory	Territory	Unorganized	NA	
CAN	Canada	Province	Census Division	Municipality	NA	
CAN	Canada	Territory	Territory	Settlement	NA	
CAN	Canada	Territory	Territory	Town	NA	
CAN		-	-		NA	
	Canada	Territory	Territory	Village		
CAN	Canada	Territory	Region	City	NA	
CAN	Canada	Province	County	Unorganized	NA	
CAN	Canada	Territory	Region	Village	NA	
CAN	Canada	Territory	Territory	City	NA	
CAN	Canada	Province	Census Division	Specialized Municipality	NA	
CAN	Canada	Province	District	Town	NA	
CAN	Canada	Province	County	Parish	NA	
CAN	Canada	Province	Regional County Municipality	Parish Municipality	NA	
CAN	Canada	Province	County	Community	NA	
CAN	Canada	Province	County	Town	NA	
CAN	Canada	Territory	Territory	Teslin Land	NA	
CAN	Canada	Province	Region	Regional District Electoral Area	NA	
CAN	Canada	Province	County	Land Reserved	NA	
CAN	Canada	Province	County	Village Naskapi	NA	
CAN	Canada	Province	Census Division	Local Government District	NA NA	<del>                                     </del>
CAN	Canada		Census Division	Land Reserved	NA NA	
		Province				<b>—</b>
CAN	Canada	Province	District District	Unorganized	NA	
CAN	Canada	Province	Regional District	Nisga'a Land	NA	
CAN	Canada	Province	County	Municipality	NA	
CAN	Canada	Province	Regional County Municipality	Village	NA	
CAN	Canada	Province	Regional County Municipality	Municipality	NA	
CAN	Canada	Province	Regional County Municipality	Canton Municipality	NA	
CAN	Canada	Province	County	Village	NA	
CAN		Province	Regional County Municipality	Ville	NA	
CAN	Canada	FIOVINCE		I	NA	
	Canada Canada	Province	County	Township and Royalty	INA	
CAN			County District	Township and Royalty Township	NA	
CAN	Canada	Province Province	District			
CAN CAN CAN CAN	Canada Canada	Province Province Province	District County	Township Ville	NA NA	
CAN CAN CAN CAN CAN	Canada Canada Canada Canada	Province Province Province Province	District County County	Township Ville Township	NA NA NA	
CAN CAN CAN CAN CAN CAN CAN	Canada Canada Canada Canada Canada	Province Province Province Province Province Province	District County County Census Division	Township Ville Township Special Area	NA NA NA	
CAN CAN CAN CAN CAN CAN CAN CAN	Canada Canada Canada Canada Canada Canada Canada	Province Province Province Province Province Province Province	District County County Census Division County	Township Ville Township Special Area Indian Reserve	NA NA NA NA	
CAN	Canada	Province Province Province Province Province Province Province Province Province	District County County Census Division County Regional County Municipality	Township Ville Township Special Area Indian Reserve United Cantons Municipality	NA NA NA NA NA	
CAN	Canada	Province	District County County Census Division County Regional County Municipality Regional County Municipality	Township Ville Township Special Area Indian Reserve United Cantons Municipality Indian Reserve	NA NA NA NA NA NA	
CAN	Canada	Province Province Province Province Province Province Province Province Province	District County County Census Division County Regional County Municipality	Township Ville Township Special Area Indian Reserve United Cantons Municipality	NA NA NA NA NA	

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CAN	Canada	Province	County	Indian Settlement	NA	
CAN	Canada	Province	Regional District	Indian Government District	NA	
CAN	Canada	Province	District	City	NA	
CAN	Canada	Province	County	City	NA	
CAN	Canada	Province	United County	City	NA	
CAN	Canada	Province	County	Municipal District	NA	
CAN	Canada	Province	Regional District	Island Municipality	NA	
CAN	Canada	Province	Water body	Water body	NA	
CAN	Canada	Province	District	Village	NA	
CAN	Canada	Province	Regional County Municipality	Indian Settlement	NA	
CAN	Canada	Province	United Counties	Township	NA	
CAN	Canada	Province	County	Subdivision of County Municipality	NA	
CAN	Canada	Province	United County	Township	NA	
CAN	Canada	Province	District Municipality	Township	NA	
CAN	Canada	Province	County	Parish Municipality	NA	
CAN	Canada	Province	Regional Municipality	City	NA	
CAN	Canada	Province	Regional Municipality	Town	NA	
CAN	Canada	Province	County	Rural Community	NA	
CAN	Canada	Province	County	Regional Municipality	NA	
CAN						
	Canada	Province	Regional Municipality	Township	NA	
CAN	Canada	Province	United Counties	Town	NA	
CAN	Canada	Province	United Counties	City	NA	
CAN	Canada	Province	United County	Town	NA	
CAN	Canada	Province	District Municipality	Town	NA	
CAN	Canada	Province	United Counties	Village	NA	
CAN	Canada	Province	District Municipality	Indian Reserve	NA	
CAN	Canada	Province	United Counties	Indian Reserve	NA	
CAN	Canada	Province	United County	Village	NA	
CAN	Canada	Province	Regional Municipality	Indian Reserve	NA	
ССК	Cocos Islands	NA	NA	NA	NA	
CHE	Switzerland	Canton	District	Water body	NA	
CHE	Switzerland	Canton	District	Municipality	NA	
CHE	Switzerland	Canton	Water body	Water body	NA	
CHL	Chile	Region	Province	Municipality	NA	
CHN						
	China	Autonomous Region	Prefecture	County	NA	
CHN	China	Province	Prefecture City	County	NA	
CHN	China	Province	Prefecture City	County City	NA	
CHN	China	Autonomous Region	League	Banner	NA	
CHN	China	Autonomous Region	Prefecture City	Banner	NA	
CHN	China	Municipality	Municipality	District	NA	
CHN	China	Autonomous Region	Prefecture City	County	NA	
CHN	China	Province	Prefecture City	District	NA	
CHN	China	Province	Autonomous Prefecture	County	NA	
CHN	China	Autonomous Region	Prefecture	County City	NA	
CHN	China	Province	Prefecture City	Autonomous County	NA	
CHN	China	Autonomous Region	Prefecture City	District	NA	
CHN	China	Autonomous Region	Prefecture City	County City	NA	
CHN	China	Municipality	Municipality	County	NA	
CHN	China	Autonomous Region	Autonomous Prefecture	County	NA	
CHN	China	Autonomous Region	Autonomous Prefecture	Autonomous County	NA	
CHN	China	Province	Autonomous Prefecture	Autonomous County	NA	
CHN	China	Province	Prefecture	County	NA	
CHN	China	Province	Prefecture	County City	NA	
CHN	China	Province	Prefecture	District	NA	
CHN	China	Autonomous Region	Prefecture City	Autonomous Banner	NA	
CHN	China	Autonomous Region	Prefecture	Autonomous County	NA	
CHN	China	Autonomous Region	Autonomous Prefecture	County City	NA	
CHN	China	Province	Autonomous Prefecture	County City	NA	
CHN	China	Autonomous Region	League	County City	NA	
CHN	China	Autonomous Region	League	County	NA	
CHN	China	Municipality	Municipality	Municipality	NA	
CHN	China	Autonomous Region	Prefecture City	Autonomous County	NA	
CHN	China	Province	Autonomous Prefecture	Administrative Committee	NA	
CHN	China	Province	Prefecture	Autonomous County	NA	
CHN	China	Province	Prefecture City	New District	NA	
CHN	China	Province	Prefecture City	Special District	NA	
CHN	China	Province	Autonomous Prefecture	Autonomous Prefecture	NA	
CHN	II		Autonomous Prefecture	District	NA	
	China	Province			t t	
	China China	Province Island			NA	
CHN	China	Island	Island	Island	NA NA	
CHN	Côte d'Ivoire	Island Region	Island Department	Island Sub-prefecture	NA	
CHN CIV CL-	China Côte d'Ivoire Clipperton Island	Island Region NA	Island Department NA	Island Sub-prefecture NA	NA NA	
CHN CIV CL- CMR	China Côte d'Ivoire Clipperton Island Cameroon	Island Region NA Province	Island Department NA Department	Island Sub-prefecture NA NA	NA NA NA	
CHN CIV CL- CMR COD	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo	Island Region NA Province Province	Island Department NA Department Sub-region	Island Sub-prefecture NA NA NA	NA NA NA	
CHN CIV CL- CMR COD	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo	Island Region NA Province Province Neutral City	Island Department NA Department Sub-region Sub-region	Island Sub-prefecture NA NA NA NA NA	NA NA NA NA	
CHN CIV CL- CMR COD COD COD	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo	Island Region NA Province Province Neutral City Region	Island Department NA Department Sub-region	Island Sub-prefecture NA NA NA	NA NA NA	
CHN CIV CL- CMR COD	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo	Island Region NA Province Province Neutral City	Island Department NA Department Sub-region Sub-region	Island Sub-prefecture NA NA NA NA NA	NA NA NA NA	
CHN CIV CL- CMR COD COD COD	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo Republic of Congo	Island Region NA Province Province Neutral City Region	Island Department NA Department Sub-region Sub-region District	Island Sub-prefecture NA NA NA NA NA NA NA	NA NA NA NA NA	
CHN CIV CL- CMR COD COD COD COG COK	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo Republic of Congo Cook Islands	Island Region NA Province Province Neutral City Region NA	Island Department NA Department Sub-region Sub-region District NA	Island Sub-prefecture NA	NA NA NA NA NA NA NA	
CHN CIV CL- CMR COD COD COD COG COK COK	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo Republic of Congo Cook Islands Colombia	Island Region NA Province Province Neutral City Region NA Department	Island Department NA Department Sub-region Sub-region District NA Municipality	Island Sub-prefecture NA	NA	
CHN CIV CL- CMR COD COD COG COG COK COK COL	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo Republic of Congo Cook Islands Colombia Colombia	Island Region NA Province Province Neutral City Region NA Department Intendancy	Island Department NA Department Sub-region Sub-region District NA Municipality Municipality	Island Sub-prefecture NA	NA	
CHN CIV CL- CMR COD COD COG COK COL COL COL	China Côte d'Ivoire Clipperton Island Cameroon Democratic Republic of the Congo Democratic Republic of the Congo Republic of Congo Cook Islands Colombia Colombia Colombia	Island Region NA Province Province Neutral City Region NA Department Intendancy Commissiary	Island Department NA Department Sub-region Sub-region District NA Municipality Municipality Municipality	Island Sub-prefecture NA	NA N	

Color			I=	Ia	T	I	
Company	COL	Colombia	Department	Corregimiento Departamento	NA	NA	
SQL         Oath BRD         Processes         Oathor State         NK         ARA           CIO         Consuper         AB         AA         ARA							
OND         ORD         PROMOSE         AMISSAND         NO         MA           OR         Corporate Stand         AB         NA         NA         NA         NA           OR         Corporate Stand         AB         NA         NA         NA         NA           OR         Corporate Stand         AB         NA         NA         NA         NA           OFT         Corporate Stand         Degree         Outside         NA         NA         NA           OFT         Corporate Stand         Degree         Outside Stand         NA         NA         NA           OFT         Corporate Stand         Degree         Degree         NA         NA         NA           OFT         Corporate Stand         Degree         Degree         NA         NA         NA           OFT         Corporate Stand         Degree <td< td=""><td></td><td>'</td><td>•</td><td></td><td></td><td></td><td></td></td<>		'	•				
OWD         OWD         ANA         NA         NA <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>							
Comment   Note							
OND         Opensel Description         Opensel Description         Opensel Description         NA         NA         NA           CIL         Contringuist         Region         Description         NA         NA         NA           CIL         Contringuist         Region         Description         NA         NA           SIL         Control         Seal         Administration Region         Na         NA           SIL         Control         Seal         Administration Region         Na         NA           SIL         Control         Seal         Administration Region         Na         NA           SIL         Control         Seal         Seal Howard State         Use offers         NA           SIL         Control         Seal         Seal         Seal         NA         NA           SIL         Control         Seal         Seal         Seal         NA         NA         NA           SIL         Control         Seal         Seal         NA         NA         NA         NA           SIL         Seal         Seal         Seal         NA         NA         NA         NA           SIL         Seal         Seal		•					
OPO         Option         MA         NA         NA         NA           CFI         Outs Broudde         Region         0000000         AN         NA         NA           CFI         Outs Broudde         Region         Outs Broudde         NA         NA         NA           CFI         Outs Broudde         Dee         Advinitionable Region         Variant and Control         NA         NA           CFI         Outs Bround         Dee         Advinitionable Region         Variant and Control         NA         NA           CFI         Outs Bround         Dee         Control         Control         NA         NA         NA           CFI         Outs Bround         Dee         Option         NA         NA         NA           CFI         Outs Bround         Dee         Option         NA         NA         NA           CFI         Outs Bround         Dee         Option         NA         NA         NA           CFI         Outs Bround         Dee         Outs Bround         NA         NA         NA           CFI         Outs Bround         NA         NA         NA         NA         NA         NA           CFI							
Control   Con		· ·					
CSC         Case Mespilable         Septimal         Assessment on the Biggion         NA         MA           5711         Cernmany         Quate         Assessment on the Biggion         Quartering         MA           5710         Cernmany         Quate         Assessment of Septimal Programs         MA         MA           5711         Cernmany         State         Assessment Septimal Programs         MA         MA           5711         Cernmany         State         Opp         MA         MA           5712         Cernmany         State         Opp         MA         MA           5813         Object         Opp         Opp State         MA         MA           5814         Object         Opp State         MA         MA         MA           5814         Object         Opp State         MA         MA         MA           5814         Object         Opp State         Market State							
Sementy							
SQU         Commany         State         Advancative Region         No. 1         NA         NA           SQU         Commony         State         State		· ·					
Sill or correspy         State or control of control or							
SIMU         Servery         Seate         State   Food State         And others         NA         PA           SUL         Semeny         Seate         Oty         NA         NA         NA           SUL         Semeny         Seate         Oty         NA         NA         NA           SUL         Sulvari         Region         Ostroir         NA         NA         NA           SUL         Sulvari         Region         Ostroir         NA         NA         NA           SUL         Sulvari         Province         Name         NA         NA         NA           SUL         Sulvari         Province         Name         NA         NA         NA           SUL         Sulvari         Province         Name         NA         NA         NA           SUL         Agence         Province         Name         NA         NA         NA           SUL         Agence         Province         Communic Octobe         NA         NA         NA           SUL         Agence         Province         Communic Octobe         NA         NA         NA           SUL         Agence         Province         Communic Octobe <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td>		· · · · · · · · · · · · · · · · · · ·					
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Semanger   Saize		-		State   Federal State			
	DEU	Germany	State	City	NA	NA	
Object         Object         Object         NA	DEU	Germany	State	City	Urban district	NA	
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DAA         Algorita         Province         Correnue         NA         NA           DZA         Algorita         Province         Cremuse         NA         NA         NA           DZA         Algorita         Province         Cheft Lepvilling         NA         NA         NA           ECU         Founder         Province         Carton         Province         NA         NA         NA           ECU         Founder         Province         Carton         NA         NA         NA           ECU         Epotador         Province         Carton         NA         NA         NA           ECU         Eggit         Goognemorate         NA         NA         NA         NA           ESP         Span         Alatterioristic         NA         NA         NA         NA           ESP         Span         Alatterioristic Control         NA         NA         NA         NA           ESP         Span         Alatterioristic Control         NA         NA         NA         NA           ESP         Span         Alatterioristic Control         Na         NA         NA         NA           ESP         Span         Alatterior	DOM	Dominican Republic	Province	Municipal district	NA	NA	
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DEAM         Algaries         Province         NA         NA         NA           ECU         Scauder         Province         Canton         NA         NA           ECU         Scauder         Province         Canton         NA         NA         NA           ECY         Stopy         Governovate         NA         NA         NA         NA           EST         Isiance         Beginn         District         NA         NA         NA           EST         Isiance         Na         NA         NA         NA           ESP         Spain         Autonomosa City         Province         Comerce         Manicipality           EST         Storius         Courly         Province         Comerce         Manicipality           EST         Storius         Courly         Province         NA         NA         NA           EST         Storius         Courly         Province         NA         NA         NA           EST         Storius         Courly         Province         NA         NA         NA           EST         Storius         Courly         NA         NA         NA         NA           EST <td>DZA</td> <td>Algeria</td> <td>Province</td> <td>Commune-Cotiere</td> <td>NA</td> <td>NA</td> <td></td>	DZA	Algeria	Province	Commune-Cotiere	NA	NA	
ECU         Exception         Province         Carticion         Particion         NA         NA           ECU         Export         Sport controlled         NA         NA         NA         NA           ECU         Export         Sport controlled         NA         NA         NA         NA           ESH         Sintea         Begone         District         NA         NA         NA           ESH         Sintea         Autonomous Community         Province         Commerc         Municipality         Image: Controlled           ESH         Sission         Autonomous City         Altonomous City         Commerc         Municipality         Image: Controlled         Municipality         Image: Controlled         Municipality         Image: Controlled         Manage: Controlled         Manage: Controlled         Municipality         Image: Controlled         Manage: Controlled         Manage: Controlled         Municipality         Image: Controlled         Manage: Contro	DZA	Algeria	Province	Chef-Lieu-Wilaya	NA	NA	
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EGY         Egypt         Governosate         NA         NA         NA           ESI         Etters         Region         Dates         NA         NA         NA           ESI         Mestern Sahara         Province         NA         NA         NA         NA           ESP         Sajan         Autonomus Carp         Autonomus Carp         Cornera         Manicipally         Image: Cornera           ESP         Sajan         Autonomus Carp         Autonomus City         Cornera         Manicipally         Image: Cornera           ESP         Sajan         Autonomus Carpurating         Cornera         Manicipally         Image: Cornera         NA         NA<	ECU	Ecuador	Province	Canton	Parish	NA	
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Spain   Autonomous Community   Province   Commirca   Municipality   EST   Spain   Autonomous City   Autonomous City   Autonomous City   Commirca   County   Portoh   NA   NA   NA   NA   NA   NA   NA   N	ERI		Region	District	NA	NA	
Spain	ESH	Western Sahara	Province	NA	NA	NA	
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Fix Mar.         allatand Islands         NA         NA         NA         NA           FRA         France         Region         Department         Districts         Controns           FRA         France         Region         Department         Districts         Water body           FRA         France         Region         Department         Water body         Water body           FRA         France         Region         Department         Water body         Water body           FRA         France Islands         Region         Commune         NA         NA         NA           SBM         Micronesia         State         NA         NA         NA         NA           GBB         United Kingdom         Kingdom         London Borough         NA         NA         NA           GBR         United Kingdom         Kingdom         United Mrade         NA         NA         NA           GBR         United Kingdom         Province         District         NA         NA         NA           GBR         United Kingdom         Kingdom         Unitary Authority         NA         NA         NA           GBR         United Kingdom         Kingdom <t< td=""><td></td><td>Ethiopia</td><td>Administrative State</td><td>Zone</td><td>District</td><td>NA</td><td></td></t<>		Ethiopia	Administrative State	Zone	District	NA	
FRA         France         Region         Department         Districts         Cantons           FRA         France         Region         Department         Districts         Water body         Image: Canton of Series           FRA         France         Region         Department         Water body         Weder body           FRO         Face Islands         Region         Commune         NA         NA           GBR         United Kingdom         Province         Department         NA         NA           GBR         United Kingdom         Kingdom         London Borough         NA         NA           GBR         United Kingdom         Kingdom         United Ares         NA         NA         NA           GBR         United Kingdom         Kingdom         Unitary District (city)         NA         NA         NA           GBR         United Kingdom         Kingdom         Unitary District (city)         NA         NA         NA           GBR         United Kingdom         Kingdom         Unitary District (city)         NA         NA         NA           GBR         United Kingdom         Kingdom         Unitary District (city)         NA         NA         NA <td< td=""><td>FIN</td><td>Ethiopia Finland</td><td>Administrative State Province</td><td>Zone Region</td><td>District Sub-Region</td><td>NA Municipality</td><td></td></td<>	FIN	Ethiopia Finland	Administrative State Province	Zone Region	District Sub-Region	NA Municipality	
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GHA     Ghana     Region     Municipal District     NA     NA       GHA     Ghana     Region     Metropolitan District     NA     NA       GIB     Gibraltar     NA     NA     NA     NA       GIN     Guinea     Region     Prefecture     Sub-prefecture     NA       GLP     Guadeloupe     District     Commune     NA     NA       GMB     Gambia     Division     District     NA     NA       GMB     Gambia     Independent City     District     NA     NA	FIN FJI FJI FLK FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Islands Micronesia Gabon United Kingdom Georgia Georgia Georgia Georgia Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Ringdom Kingdom Ringdom Region Region Autonomous Republic Region Independent City	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District Unitary Authority London Borough (royal) County London Borough (royal) County Unitary Authority (city) London Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (county) London Borough (city) Unitary Authority (county) District District City City City	District Sub-Region NA NA Districts Districts Water body NA	NA Municipality NA NA Cantons Water body Water body NA	
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GIB Gibraltar NA	FIN FJI FJI FLK FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Islands Micronesia Gabon United Kingdom Georgia Georgia Georgia Georgia Georgia Georgia Georgia Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Region Autonomous Republic Region Independent City NA Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) Unitary Authority (city) London Borough (city) Unitary Authority (wales Metropolitan County Metropolitan Borough (city) Unitary Authority (county) London Borough (city) Unitary Authority (county) District District District City City City City NA District	District Sub-Region NA NA Districts Districts Water body NA	NA Municipality NA NA Cantons Water body Water body NA	
GIN Guinea Region Prefecture Sub-prefecture NA S	FIN FJI FLK FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Faroe Islands Micronesia Gabon United Kingdom Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Ringdom Region Autonomous Republic Region Independent City NA Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (county) London Borough (city) Unitary Authority (county) District District City City City City City NA District Municipal District	District Sub-Region NA NA Districts Districts Water body NA	NA Municipality NA NA Cantons Water body Water body NA	
GLP Guadeloupe District Commune NA NA NA GMB Gambia Division District NA NA NA GMB Gambia Independent City District NA NA NA NA NA GMB MA NA NA MA	FIN FJI FLK FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Faroe Islands Micronesia Gabon United Kingdom Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Ringdom Ringdom Ringdom Ringdom Independent City NA Region Region Region Region Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (county) London Borough (city) Unitary Authority (county) District District City City City City NA District Municipal District Metropolitan District	District Sub-Region NA NA Districts Districts Water body NA	NA Municipality NA NA Cantons Water body Water body NA	
GMB Gambia Division District NA NA NA GMB Gambia Independent City District NA NA NA NA COMPANDE COMPAN	FIN FJI FJI FLK FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France   France	Administrative State Province Division NA Region Region Region Region State Province Kingdom Ringdom Ringdom Ringdom Principality Kingdom Kingdom Region Autonomous Republic Autonomous Republic Region Independent City NA Region Region Region Region Region Region Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (wales Metropolitan County Metropolitan County London Borough (city) Unitary Authority (county) District District City City City City City City City Cit	District Sub-Region NA NA Districts Districts Water body NA	NA Municipality NA NA Cantons Water body Water body NA	
GMB Gambia Independent City District NA NA	FIN FJI FLK FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Salands Micronesia Gabon United Kingdom Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Independent City NA Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District (city) District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (city) Unitary Authority (city) London Borough (city) Unitary Authority (county) London Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (county) District District District City City City City NA District Municipal District Metropolitan District NA Prefecture	District           Sub-Region           NA           NA           Districts           Districts           Water body           NA           NA <t< td=""><td>NA Municipality NA NA Cantons Water body Water body NA NA</td><td></td></t<>	NA Municipality NA NA Cantons Water body Water body NA	
	FIN FJI FJI FLK FRA FRA FRA FRO GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Salands Micronesia Gabon United Kingdom Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Independent City NA Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District (city) District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (city) Unitary Authority (city) London Borough (city) Unitary Authority (county) London Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (county) District District District City City City City NA District Municipal District Metropolitan District NA Prefecture	District           Sub-Region           NA           NA           Districts           Districts           Water body           NA           NA <t< td=""><td>NA Municipality NA NA Cantons Water body Water body NA NA</td><td></td></t<>	NA Municipality NA NA Cantons Water body Water body NA	
GNB         Guinea-Bissau         Region         Sector         NA         NA	FIN FIL FIL FIL FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Faroe Islands Micronesia Gabon United Kingdom Georgia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Independent City NA Region	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District (city) District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (rity) Unitary Authority (city) London Borough (royal) County Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (wales Metropolitan Borough (city) Unitary Authority (county) District District City City City City NA District Municipal District Metropolitan District Metropolitan District NA Prefecture Commune	District Sub-Region NA NA Districts Districts Water body NA	NA Municipality NA NA Cantons Water body Water body NA	
	FIN FIL FIL FIL FRA FRA FRA FRO FSM GAB GBR GBR GBR GBR GBR GBR GBR GBR GBR GB	Ethiopia Finland Fiji Falkland Islands France France France France Salonds Micronesia Gabon United Kingdom Gengia Georgia Georgia Georgia Georgia Georgia Georgia Georgia Georgia Gibraltar Gibraltar Guinea Guadeloupe Gambia	Administrative State Province Division NA Region Region Region Region State Province Kingdom Ringdom Independent City NA Region District Division	Zone Region Province NA Department Department Department Commune NA Department London Borough Island Area Unitary District (city) District Unitary Authority Unitary Authority London Borough (royal) County Unitary Authority (city) London Borough (royal) County Unitary Authority (city) Unitary Authority (city) London Borough (royal) County Unitary Authority (city) Unitary Authority (city) Unitary Authority (county) Unitary Authority (county) Unitary Authority (county) District District City City City City NA District Municipal District Metropolitan District NA Prefecture Commune District	District           Sub-Region           NA           NA           Districts           Districts           Water body           NA	NA Municipality NA NA Cantons Water body Water body NA	

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GNB	Guinea-Bissau	Autonomous Sector	Sector	NA	NA NA	
GNQ GRC	Equatorial Guinea Greece	Province	NA Prefecture	NA NA	NA NA	
GRC	Greece	Region Autonomous Monastic State	Autonomous Monastic State	NA NA	NA NA	
GRD			NA NA			
GRD	Grenada Grenada	Dependency Parish	NA NA	NA NA	NA NA	
GRL	Greenland	Province	Municipality	NA NA	NA NA	
GTM	Guatemala	Department	Municipality	NA	NA	
GTM	Guatemala	Department	Water body	NA	NA	
GUF	French Guiana	Arrondissement	Commune	NA	NA	
GUM	Guam	Municipality	NA	NA	NA	
GUY	Guyana	Region	Neighbourhood Democratic	NA	NA	
GUY	Guyana	Region	Not Classified	NA	NA	
GUY	Guyana	Region	Municipality	NA	NA	
GUY	Guyana	Region	Conservancy	NA	NA	
HKG	Hong Kong	District	NA	NA	NA	
HMD	Heard Island and McDonald Islands	NA	NA	NA	NA	
HND	Honduras	Department	Municipality	NA	NA	
HRV	Croatia	County	NA	NA	NA	
HRV	Croatia	City	NA	NA	NA	
HTI	Haiti	Department	NA	NA	NA	
HUN	Hungary	County	Subregion	NA	NA	
HUN	Hungary	Capital City	Subregion	NA	NA	
IDN	Indonesia	Province	Regency	NA	NA	
IDN	Indonesia	Province	Municipality	NA	NA	
IDN	Indonesia	City	Municipality	NA	NA	
IDN	Indonesia	City	Regency	NA	NA	
IDN	Indonesia	Autonomous Province	Regency	NA	NA	
IDN	Indonesia	Autonomous Province	Municipality	NA	NA	
IDN	Indonesia	Province	City	NA	NA	
IDN	Indonesia	Special region	Regency	NA	NA	
IDN	Indonesia	Province	Water body	NA	NA	
IDN	Indonesia	Province	Unknown	NA	NA	
IDN	Indonesia	Special region	Municipality	NA	NA	
IDN	Indonesia	Special district	Regency	NA	NA	
IDN	Indonesia	Special district	Municipality	NA	NA	
IMN	Isle of Man	NA	NA NA	NA	NA	
IND	India	State	District	Taluk	NA	
IND	India	Union Territory	District	Taluk	NA	
IOT	British Indian Ocean Territory	NA	NA	NA	NA	
IRL	Ireland	County	NA NA	NA NA	NA	
IRN				NA NA	NA	
IRN	Iran	Province	County			
	Iran	Province	Unknown	NA	NA	
	l •		7.1. 1	114	214	
IRN	Iran	Province	Island	NA	NA	
IRQ	Iraq	Province	NA	NA	NA	
IRQ ISL	Iraq Iceland	Province Region	NA Municipality	NA NA	NA NA	
IRQ ISL ISL	Iraq Iceland Iceland	Province Region Independent Town	NA Municipality Municipality	NA NA NA	NA NA	
IRQ ISL ISL ISR	Iraq Iceland Iceland Israel	Province Region Independent Town District	NA Municipality Municipality NA	NA NA NA	NA NA NA	
IRQ ISL ISL ISR ITA	Iraq Iceland Iceland Israel Italy	Province Region Independent Town District Autonomous Region	NA Municipality Municipality NA Province	NA NA NA NA Commune	NA NA NA NA	
IRQ ISL ISL ISR ITA	Iraq Iceland Iceland Israel Italy	Province Region Independent Town District Autonomous Region Region	NA Municipality Municipality NA Province Province	NA NA NA Commune Commune	NA NA NA NA NA	
IRQ ISL ISL ISR ITA ITA JAM	Iraq Iceland Iceland Israel Italy Italy Jamaica	Province Region Independent Town District Autonomous Region Region Parish	NA Municipality Municipality NA Province Province NA	NA NA NA Commune Commune NA	NA NA NA NA NA NA NA	
IRQ ISL ISL ISR ITA ITA JAM JEY	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey	Province Region Independent Town District Autonomous Region Region Parish NA	NA Municipality Municipality NA Province Province NA NA	NA NA NA Commune Commune NA NA	NA	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan	Province Region Independent Town District Autonomous Region Region Parish NA Province	NA Municipality Municipality NA Province Province NA NA Sub-Province	NA NA NA Commune Commune NA NA NA	NA	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City	NA NA NA Commune Commune NA NA NA NA NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town	NA NA NA NA Commune Commune NA NA NA NA NA NA NA	NA N	
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IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN JPN JPN JPN JPN JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan Japan Japan Japan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town City Village	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN JPN JPN JPN JPN JPN JPN JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan Japan Japan Japan Japan Japan Japan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Prefecture Metropolis	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Prefecture Metropolis Circuit	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan Japan Japan Japan Japan Japan Japan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Urban Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Metropolis Metropolis Metropolis Metropolis	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town City Village Special Ward Village Town City City City City City City City City	NA NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Urban Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Metropolis Metropolis Metropolis Metropolis	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town City Village Special Ward Village Town City City City City City City City City	NA NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City City NA	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Circuit Urban Prefecture Circuit	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town City Village Special Ward Village Town City City City NA Capital	NA NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Circuit Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town City Village Special Ward Village Town City City City NA Capital Unknown	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Urban Prefecture Urban Prefecture Metropolis Circuit Urban Prefecture Metropolis Circuit Urban Prefecture Urban Prefecture Metropolis Circuit Urban Prefecture Urban Prefecture Metropolis Prefecture Metropolis Oricuit Urban Prefecture Metropolis Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town City Village Special Ward Village Town City City NA Capital Unknown Village	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Metropolis Circuit Urban Prefecture Urban Prefecture Metropolis Circuit Urban Prefecture Urban Prefecture Metropolis Prefecture Urban Prefecture Metropolis Prefecture Metropolis Prefecture Urban Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City NA Capital Unknown Village Water body	NA           NA           NA           NA           Commune           Commune           NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Urban Prefecture Urban Prefecture Metropolis Prefecture Urban Prefecture Urban Prefecture Metropolis	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City Ullage Town City City Village Town City City NA Capital Unknown Village Water body Town	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Urban Prefecture Urban Prefecture Metropolis Prefecture Urban Prefecture Urban Prefecture Metropolis Region	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City Uilage Uity City NA Capital Unknown Village Water body Town Assembly	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Circuit Circuit Circuit Urban Prefecture Urban Prefecture Circuit Urban Prefecture Urban Prefecture Urban Prefecture Circuit Retropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Urban Prefecture Prefecture Urban Prefecture Prefecture Metropolis Region Region Province	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village City City Uilage Unknown Village Water body Town Assembly District District	NA NA NA NA Commune Commune NA	NA           Location	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Urban Prefecture Circuit Retropolis Prefecture Urban Prefecture Metropolis Prefecture Metropolis Prefecture Circuit Region Prefecture Urban Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City Uilage Town City City NA Capital Unknown Village Water body Town Assembly District District	NA NA NA NA Commune Commune NA	NA           Location	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kazakhstan Kenya Kenya Kenya	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Urban Prefecture Circuit Urban Prefecture Urban Prefecture Metropolis Prefecture Metropolis Prefecture Urban Prefecture	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City Uilage Town City City Uilage Town City City City Disrict District Distric	NA NA NA NA Commune Commune NA	NA	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kazakhstan Kenya Kenya Kenya Kyrgyzstan	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Gircuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Circuit Prefecture Urban Prefecture National Capital Area Region City	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City Uilage Town City City Uilage Town City City City Disrict District District District NA NA	NA           NA	NA	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kazakhstan Kenya Kenya Kerya Kerya Kyrgyzstan Kyrgyzstan Kazakhodia	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Metropolis Prefecture Metropolis Prefecture Urban Prefecture Metropolis Prefecture Urban Prefecture Region Region Province National Capital Area Region City Province	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City Uilage Town City City Uilage Town City City District District District NA NA NA District	NA NA NA NA Commune Commune NA	NA N	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kasakhstan Kenya Kerya Kyrgyzstan Kyrgyzstan Cambodia Cambodia	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Circuit Urban Prefecture Metropolis Prefecture Urban Prefecture Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Region Region Region Province National Capital Area Region City Province Municipality	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City NA Capital Unknown Village Water body Town Assembly District District District NA NA District	NA NA NA NA Commune Commune NA	NA           Village	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kapan Japan Japa	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Circuit Urban Prefecture Metropolis Prefecture Urban Prefecture Metropolis Region Region Region Province National Capital Area Region City Province Municipality NA	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City NA Capital Unknown Village Water body Town Assembly District District District NA NA District	NA NA NA NA Commune Commune NA	NA           Village           Village	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kapan Japan Japa	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Circuit Urban Prefecture Metropolis Prefecture Urban Prefecture Urban Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Circuit Prefecture Circuit Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Metropolis Region Region Region Province National Capital Area Region City Province Municipality NA Parish	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City NA Capital Unknown Village Water body Town Assembly District District District NA NA District NA	NA NA NA NA Commune Commune NA	NA	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kapan Japan Japa	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Wetropolis Circuit Region Prefecture Metropolis Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Metropolis Region Region Region Province National Capital Area Region City Province Municipality NA Parish District	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City NA Capital Unknown Village Water body Town Assembly District District District District NA NA District District NA NA District District NA NA NA NA Town   Municipal	NA NA NA NA NA Commune Commune NA	NA           Village           Village           NA           NA           NA           NA	
IRQ ISL ISL ISR ITA ITA JAM JEY JOR JPN	Iraq Iceland Iceland Israel Italy Italy Italy Jamaica Jersey Jordan Japan Kapan Japan Japa	Province Region Independent Town District Autonomous Region Region Parish NA Province Prefecture Prefecture Circuit Circuit Urban Prefecture Urban Prefecture Circuit Urban Prefecture Metropolis Prefecture Urban Prefecture Urban Prefecture Metropolis Circuit Urban Prefecture Metropolis Prefecture Circuit Urban Prefecture Metropolis Prefecture Circuit Prefecture Circuit Urban Prefecture Urban Prefecture Urban Prefecture Urban Prefecture Metropolis Region Region Region Province National Capital Area Region City Province Municipality NA Parish	NA Municipality Municipality NA Province Province NA NA Sub-Province City Town Town City Village Special Ward Village Town City City NA Capital Unknown Village Water body Town Assembly District District District NA NA District NA	NA NA NA NA Commune Commune NA	NA	

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KOR	South Korea	Metropolitan City	County	NA	NA	
KOR	South Korea	Metropolitan City	District	NA	NA	
KOR	South Korea	Capital Metropolitan City	District	NA	NA	
KWT	Kuwait	Province	NA	NA	NA	
LAO	Laos	Province	District	NA	NA	
LAO	Laos	Special Region   Zone	District	NA	NA	
LAO	Laos	Municipality Prefecture	District	NA	NA	
LBN	Lebanon	Province	County	NA	NA	
LBR	Liberia	County	District	Clan	NA	
		•				
LBY	Libya	Municipality   Governarate	NA	NA	NA	
LCA	Saint Lucia	Quarter	NA	NA	NA	
LIE	Liechtenstein	Commune	NA	NA	NA	
LKA	Sri Lanka	District	Division	NA	NA	
LSO	Lesotho	District	NA	NA	NA	
LTU	Lithuania	County	City Municipality	NA	NA	
LTU	Lithuania	County	District Municipality	NA	NA	
LTU	Lithuania	County	Municipality	NA	NA	
LUX	Luxembourg	District	Canton	Commune	Commune (same as level 3)	
LUX	Luxembourg	District	Canton	Commune	Quarter	
LVA	Latvia	Province	District	NA	NA	
MAC	Macao	District	NA	NA	NA	
MAF	Saint-Martin	NA	NA	NA	NA	
MAR	Morocco	Region	Province	District	Rural Commune	
MAR	Morocco	Region	Province	Unknown	Urban Commune	
MAR	Morocco	Region	Prefecture	District	Rural Commune	
MAR	Morocco	Region	Prefecture	Unknown	Urban Commune	
MAR	Morocco	Region	Province	District	Urban Commune	
MCO	Monaco	Commune	NA	NA	NA	
MDA	Moldova	District	NA	NA	NA	
MDA	Moldova	City	NA	NA	NA	
MDA	Moldova	Territorial Unit	NA	NA	NA	
MDA	Moldova	Autonomous Territory	NA	NA	NA	
MDG	Madagascar	Autonomous Province	Region	District	Commune	
MDV	Maldives	NA	NA .	NA	NA	
MEX	Mexico	State	Municipality	NA	NA	
MEX	Mexico	Federal District		NA NA	NA	
			Municipality			
MHL	Marshall Islands	NA	NA	NA	NA	
MKD	Macedonia	Statistical Region	Municipality	NA	NA	
MKD	Macedonia	Statistical Region	Waterbody	NA	NA	
MLI	Mali	Region	Circle	Arrondissement	Commune	
MLI	Mali	Region	Circle	Arrondissement	Urban Commune	
MLI	Mali	District	Circle	Arrondissement	Commune	
MLT	Malta	NA	NA	NA	NA	
MMR	Myanmar	Division	District	Village   Township	NA	
MMR	Myanmar	State	District	Village Township	NA	
MNE			NA		NA	
	Montenegro	Municipality		NA		
MNG	Mongolia	Province	Sum	NA	NA	
MNG	Mongolia	Municipality	Sum	NA	NA	
MNP	Northern Mariana Islands	Municipality	NA	NA	NA	
MOZ	Mozambique	Province	District	Locality	NA	
MRT	Mauritania	Region	Department	NA	NA	
MRT	Mauritania	District	Department	NA	NA	
MSR	Montserrat	NA	NA	NA	NA	
MTQ	Martinique	Arrondissement	Commune	NA	NA	
MUS	Mauritius	District	NA	NA NA	NA NA	
MWI	Malawi	District	Traditional Authority	Unknown	NA	
MWI	Malawi	District	Sub-chief	Unknown	NA	
MWI	Malawi	District	National Park	Unknown	NA	
MWI	Malawi	District	Headquarter	Unknown	NA	
MWI	Malawi	District	Water body	Unknown	NA	
MWI	Malawi	District	Town	Unknown	NA	
MWI	Malawi	District	Reserve	Unknown	NA	
MWI	Malawi	District	City	Unknown	NA	
MWI	Malawi	District	Urban	Unknown	NA	
MYS	Malaysia	State	District	NA	NA	
MYT	Mayotte	Commune	NA .	NA	NA	
NAM	Namibia	Region	Constituency	NA	NA	
NCL	New Caledonia	Province	Commune	NA	NA	
NER	Niger	Department	Arrondissement	Commune	NA	
NER	Niger	Capital District	Arrondissement	Commune	NA	
NFK	Norfolk Island	NA	NA	NA	NA	
NGA	Nigeria	State	Local Authority	NA	NA	
NGA	Nigeria	Water body	Local Authority	NA NA	NA	
		-				
NIC	Nicaragua	Department	Municipality	NA	NA	
NIC	Nicaragua	Department	Water body	NA	NA	
NIC	Nicaragua	Autonomous Region	Municipality	NA	NA	
NIC	Nicaragua	Water body	Water body	NA	NA	
NIU	Niue	NA	NA	NA	NA	
NLD	Netherlands	Province	Municipality	NA	NA	
NLD					NA	
		-	·			
	Netherlands Norway Nepal	Water body County Development Region	Municipality Water body Municipality Administrative Zone	NA NA NA District		

				la	1	
	Nepal	NA	NA	District	NA	
NPL	Nepal	Development Region	Administrative Zone	NA	NA	
NRU	Nauru	District	NA	NA	NA	
NZL	New Zealand	Regional Council	District	Unknown	NA	
NZL	New Zealand	Regional Council	Unknown	NA	NA	
NZL	New Zealand	Territorial Authority	Territory	Unknown	NA	
NZL	New Zealand	Regional Council	City	Unknown	NA	
	New Zealand	Unitary Authority	District	Unknown	NA	
	New Zealand	Regional Council	Unknown	Unknown	NA	
	New Zealand	Unitary Authority	City	Unknown	NA	
OMN	Oman	Region	Province	NA	NA	
OMN	Oman	Province	Province	NA	NA	
PAK	Pakistan	Province	Division	District	NA	
PAK	Pakistan	Centrally Administered Area	Division	District	NA	
PAK	Pakistan	Territory	Division	District	NA	
PAK	Pakistan	Capital Territory	Division	District	NA	
PAN	Panama	Province	District	Municipality	NA	
	Panama	Indigenous Territory	District	Municipality	NA	
	Panama	Province	Indigenous Territory	Municipality	NA	
	Panama	Indigenous Territory	Indigenous Territory	Municipality	NA	
	Panama	Province	Water body	Water body	NA	
PAN	Panama	Province	Indigenous Territory	Indigenous Territory	NA	
PCN	Pitcairn Islands	NA	NA	NA	NA	
PER	Peru	Department	Province	District	NA	
PHL	Philippines	Province	Municipality	Village	NA	
	Philippines	Province	City	Village	NA	
	Philippines	Province	Waterbody	Waterbody	NA	
			-	· ·		
	Palau Palau Cuirra	State	NA	NA	NA	
	Papua New Guinea	Province	NA	NA	NA	
	Poland	Voivodeship   Province	County	NA	NA	
	Poland	Voivodeship   Province	City	NA	NA	
PRI	Puerto Rico	Municipality	NA	NA	NA	
PRK	North Korea	Province	County	NA	NA	-
PRK	North Korea	Province	City	NA	NA	
	North Korea	Special City	NA	NA	NA	
	North Korea	Special City	County	NA	NA	
	North Korea	Directly Governed City	County	NA	NA	
	North Korea	Directly Governed City	Ward	NA	NA	
	North Korea	Special Administrative Region	City	NA	NA	
PRK	North Korea	Province	Ward	NA	NA	
PRK	North Korea	Special Administrative Region	NA	NA	NA	
PRT	Portugal	District	Municipality	Parish	NA	
PRT	Portugal	Autonomous region	Municipality	Parish	NA	
PRY	Paraguay	Department	District	NA	NA	
	Paraguay	Capital District	District	NA	NA	
		Department	Water body	NA NA	NA NA	
	Paraguay Palestina	· · · · · · · · · · · · · · · · · · ·	·			
		District	Governorate	NA	NA	
	French Polynesia	NA	NA	NA	NA	
QAT	Qatar	Municipality	NA	NA	NA	
REU	Reunion	Arrondissement	Commune	NA	NA	
ROU	Romania	County	NA	NA	NA	
ROU	Romania	City	NA	NA	NA	
RUS	Russia	Region	District	NA	NA	
	Russia	Territory	District	NA	NA	
	Russia	Republic	District	NA	NA	
	Russia	Region	City	NA	NA	
	Russia	Region	Water body	NA	NA	
	Russia	Autonomous Province	City	NA	NA	
	Russia	Republic	City	NA	NA	
RUS	Russia	Autonomous Province	District	NA	NA	
RUS	Russia	Region	NA	NA	NA	
RUS	Russia	City	NA	NA	NA	
	Russia	Autonomous Province	Autonomous Okurg	NA	NA	
	Russia	Republic	Water body	NA	NA	
	Russia	Territory	City	NA	NA	
			-			
	Russia	Territory	Water body	NA	NA	
	Russia	Autonomous Region	District	NA	NA	
	Russia	Republic	NA	NA	NA	
RWA	Rwanda	Prefecture	Commune	NA	NA	
			NA	NA	NA	
	Saudi Arabia	Region	1.0.			
SAU	Saudi Arabia Sudan	Region Region	State	District	Unknown	
SAU SDN	Sudan	Region	State			
SAU SDN SEN	Sudan Senegal	Region Region	State Department	Arrondissement	NA	
SAU SDN SEN SEN	Sudan Senegal Senegal	Region Region	State Department Department	Arrondissement Arrondissement	NA Commune	
SAU SDN SEN SEN SGP	Sudan Senegal Senegal Singapore	Region Region Region NA	State Department Department NA	Arrondissement Arrondissement NA	NA Commune NA	
SAU SDN SEN SEN SGP SGS	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands	Region Region Region NA NA	State Department Department NA NA	Arrondissement Arrondissement NA NA	NA Commune NA NA	
SAU SDN SEN SEN SGP SGS SHN	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands Saint Helena	Region Region Region NA NA Administrative Area	State Department Department NA NA NA	Arrondissement Arrondissement NA NA NA	NA Commune NA NA	
SAU SDN SEN SEN SGP SGS SHN SHN	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands Saint Helena Saint Helena	Region Region Region NA NA Administrative Area Dependency	State Department Department NA NA NA NA NA NA	Arrondissement Arrondissement NA NA NA NA NA	NA Commune NA NA NA NA	
SAU SDN SEN SEN SGP SGS SHN SHN	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands Saint Helena	Region Region Region NA NA Administrative Area	State Department Department NA NA NA	Arrondissement Arrondissement NA NA NA	NA Commune NA NA	
SAU SDN SEN SEN SGP SGS SHN SHN SJM	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands Saint Helena Saint Helena	Region Region Region NA NA Administrative Area Dependency	State Department Department NA NA NA NA NA NA	Arrondissement Arrondissement NA NA NA NA NA	NA Commune NA NA NA NA	
SAU SDN SEN SEN SGP SGS SHN SHN SJM SLB	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands Saint Helena Saint Helena Svalbard and Jan Mayen	Region Region Region NA NA Administrative Area Dependency Territory	State Department Department NA NA NA NA NA NA NA NA NA	Arrondissement Arrondissement NA NA NA NA NA NA NA NA	NA Commune NA NA NA NA NA NA NA NA	
SAU SDN SEN SEN SGP SGS SHN SHN SJM SLB SLE	Sudan Senegal Senegal Singapore South Georgia and the South Sandwich Islands Saint Helena Saint Helena Svalbard and Jan Mayen Solomon Islands	Region Region Region NA NA Administrative Area Dependency Territory Province	State Department Department NA	Arrondissement Arrondissement NA	NA Commune NA	

SAME         Same Martino         Municipality         NA         NA         NA           SCMX         Strict         NA         NA         NA         NA           SCMX         Strict         Region         District         NA         NA         NA           SPA         Sprity Listeds         NA         NA         NA         NA         NA           SPA         Saint Pierra and Mujurion         Commune         NA         NA         NA         NA           SRB         Sechia         City         Town Municipally         NA         NA         NA           SRB         Sechia         City         Town Municipally         NA         NA         NA           SRIC         Surrison         Region         District         NA         NA         NA           SVE         Surrison         Satalization         NA         NA         NA         NA           SVE         Surrison         Septimizer         NA         NA         NA         NA         NA           SVE         Suscein         County         Municipality         NA         NA         NA         NA           SVE         Sweeden         County         County	
SPM         Spring yillands         NA         NA         NA         NA           SMB         Serbin         District         Town Municipal         NA         NA         NA           SMB         Serbin         District         Town Municipal         NA         NA         NA           SMB         Serbin         City         Town Municipality         NA         NA         NA           SMD         South Sudan         Region         District         NA         NA         NA           SWI         Sursame         District         Resport         NA         NA         NA           SWI         Sivorabia         Resport         District         NA         NA         NA           SWI         Sweeder         County         Marciagally         NA         NA         NA           SWZ         Sweeders         County         Marciagally         NA         NA         NA           SYC         Sweeders         County         Marciagally         NA         NA         NA           SYC         Sweeders         County         Marciagally         NA         NA         NA           SYC         Systematic Province         District	
Seminar   Semi	
SRB         Serbita         District         Town (Municipal)         NA         NA           SSB         South Sudan         Region         Sote         District         Unknown           STP         South Sudan         Region         Sote         District         Unknown           STP         Sote Tome and Principe         Marine District         NA	
SBB         Gerba         City         Towny Municipal         NA         NA           SDD         Such Sudfaun         Region         State         District         Unknown           STP         Sao Tome and Principe         Municipality         NA         NA         NA           SVK         Survision         District         Resport         NA         NA           SVK         Survision         Statistical Region         District         NA         NA           SVE         Sweden         Country         Municipality         NA         NA           SVE         Sweden         Country         Municipality         NA         NA           SVE         Sweden         Country         Municipality         NA         NA           SVE         Syeden         Country         Municipality         NA         NA           SVE         Syeden         Country         Municipality         NA         NA           SVE         Syeden         Country         Municipality         NA         NA           SVE         Sweden         District         NA         NA           SVE         Syeden         NA         NA         NA	
SDD         South Sudain         Region         Sate         District         Unknown           SUR         Surname         Municipality         NA         NA         NA           SUR         Surname         District         Resort         NA         NA         NA           SVK         Slowcian         Region         District         NA         NA         NA           SWE         Sweeden         County         Municipality         NA         NA         NA           SWE         Sweedend         District         NA         NA         NA         NA         NA           SYC         Sweedend         District         NA         NA         NA         NA         NA           SYC         Sweelend         District         NA         NA         NA         NA         NA           SYC         Sweelend         District         NA         NA         NA         NA         NA           SYC         Sweelend         District         NA         NA         NA         NA         NA           TCD         Chad         Prefecture         District         NA         NA         NA         NA         NA         NA	
SIP         Sao Tome and Principe         Municipality         NA         NA         NA           SUR         SURRED         District         Resport         NA         NA         NA           SVK         Slovakia         Region         District         NA         NA         NA           SVR         Sveeden         County         Morrisophity         NA         NA         NA           SVE         Sweeden         County         Morrisophity         NA         NA </td <td></td>	
Surname	
SVK         Slovesha         Region         District         NA         NA           SVM         Sowerlen         Statistical Region         Commune (Municipality)         NA         NA           SVE         Swelen         County         Municipality         NA         NA           SVE         Sweleneles         NA         NA         NA         NA         NA           SVE         Swyleneles         NA         NA         NA         NA         NA           SVE         Sychelles         NA         NA         NA         NA         NA           SVE         Sychelles         NA         NA         NA         NA         NA           SVE         Sychelles         Department         Department         NA         NA           TCA         Turks and Calcos Islands         District         NA         NA         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TCD         Togo         Region         Commune and Prefecture         NA         NA           TTA <td< td=""><td></td></td<>	
SWE         Storeden         Statistical Region         Commune (Municipality)         NA         NA           SWE         Sweden         County         Municipality         NA         NA         NA           SWE         Sweden         District         NA	
SWE         Sweden         County         Municipality         NA         NA           SWZ         Swepiteles         NA	
SWZ         Sweatland         Oistrict         NA         NA         NA         NA           SYC         Seychelles         NA         N	
SVC         Seychelles         NA         NA         NA         NA         NA           SYR         Syrla         Province         District         NA         NA         NA           TCA         Turks and Calcos Islands         District         NA         NA         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TGD         Chad         Prefecture         Department         Sub-district         NA           TGD         Chall         Region         Commune and Prefecture         NA         NA           THA         Thalland         Leke         Leke         Leke         Leke         Leke	
Syria         Syria         Privrince         District         NA         NA         NA           TCA         Turks and Calcos Islands         District         NA         NA         NA         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TSO         Togo         Region         Commune and Prefecture         NA         NA           TGO         Togo         Region         Commune and Prefecture         NA         NA           THA         Thailand         Province         District         Sub district         NA           THA         Thailand         Province         Minor district         Sub district         NA           THA         Thailand         Province         NA         NA         NA	
Syria         Syria         Privrince         District         NA         NA         NA           TCA         Turks and Calcos Islands         District         NA         NA         NA         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TSO         Togo         Region         Commune and Prefecture         NA         NA           TGO         Togo         Region         Commune and Prefecture         NA         NA           THA         Thailand         Province         District         Sub district         NA           THA         Thailand         Province         Minor district         Sub district         NA           THA         Thailand         Province         NA         NA         NA	
Table	
TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TCD         Chad         Prefecture         Department         Sub-prefecture         NA           TGO         Togo         Region         Prefecture         NA         NA           TGO         Togo         Region         Commune and Prefecture         NA         NA           THA         Thalland         Province         District         Sub district         NA           THA         Thalland         Province         Minor district         Sub district         NA           THA         Thalland         Lake         Lake         Lake         NA           THA         Thalland         Lake         Lake         Lake         NA           TMA         Thalland         Region         NA         NA         NA           TKM         Taylistan         Region         NA         NA         NA         NA           TKL         Taylistan         Region         NA         NA         NA         NA         NA           TKM         Taylistan         Province         NA         NA         NA         NA         NA           TMA	
FCD         Chad         Préfecture         Department         Sub-préfecture         NA           TGO         Togo         Region         Préfecture         NA         NA           TGO         Togo         Region         Commune and Préfecture         NA         NA           THA         Thalland         Province         District         Sub district         NA           THA         Thalland         Province         Minor district         Sub district         NA           THA         Thalland         Loke         Loke         Loke         NA           TKI         Thalland         Loke         Loke         Loke         NA           TKI         Tokelau         Axiol         NA         NA         NA           TKI         Tokelau         Axiol         NA         NA         NA         NA           TKI         Tokeleau         Axiol         NA         NA         NA         NA         NA           TKI         Tokeleau         Axiol         NA	
TGO         Togo         Region         Prefecture         NA         NA           TGO         Togo         Region         Commune and Prefecture         NA         NA           THA         Thalland         Province         District         Sub district         NA           THA         Thalland         Lake         Lake         Lake         Lake         NA           TIK         Tajikistan         Region         NA         NA         NA         NA           TKL         Tokelau         Atoll         NA         NA         NA         NA           TKM         Turkmeistan         Province         NA         NA         NA         NA           TLS         East Timor         District Regencies         Sub-district         NA         NA         NA           TLS         East Timor         District Regencies         Sub-district         NA         NA         NA           TLO         Trinidad and Tobago         Region         NA         NA         NA         NA         NA           TLO         Trinidad and Tobago         Region         NA         NA         NA         NA         NA           TLO         Trinidad and Tobago <t< td=""><td></td></t<>	
TGO         Togo         Region         Commune and Prefecture         NA         NA           THA         Thailand         Province         District         Sub district         NA           THA         Thailand         Province         Minor district         Sub district         NA           THA         Thailand         Lake         Lake         Lake         NA         NA           TKL         Tokelau         Atoll         NA         NA         NA         NA <td< td=""><td></td></td<>	
THA         Thailand         Province         District         Sub district         NA           THA         Thailand         Province         Minor district         Sub district         NA           TIK         Tajikistan         Region         NA         NA         NA         NA           TIK         Tokelau         Atoll         NA         NA         NA         NA           TKM         Turkmenistan         Province         NA         NA         NA         NA           TLM         Turkmenistan         Province         NA         NA         NA         NA           TLM         Turkmenistan         Province         NA         NA         NA         NA           TLM         Turkmenistan         Province         Sub-district         NA         NA         NA           TLM         Turkmenistan         Province         Sub-district         NA         NA         NA           TLM         Turkidan         And         NA         NA         NA         NA           TLD         Turildad and Tobago         Region         NA         NA         NA         NA           TLD         Turildad and Tobago         Borough         NA	
THA         Thailand         Province         Minor district         Sub district         NA           THA         Tahaland         Lake         Lake         Lake         NA	
THA         Thailand         Lake         Lake         NA           TIK         Tajikistan         Region         NA         NA         NA           TKL         Tokelau         Atoll         NA         NA         NA           TKM         Turkmenistan         Province         NA         NA         NA           TLS         East Timor         District Regencies         Sub-district         NA         NA           TLON         Tonga         Island Group         NA         NA         NA           TLON         Tonga         Island Group         NA         NA         NA           TLO         Trinidad and Tobago         City         NA         NA         NA           TLO         Trinidad and Tobago         Brough         NA         NA         NA	
TJK         Tajikistan         Region         NA         NA         NA           TKL         Tokelau         Atoll         NA         NA         NA         NA           TKM         Turkmenistan         Province         NA         NA         NA         NA           TLS         East Timor         District Jegencies         Sub-district         NA         NA         NA           TON         Tonga         Island Group         NA         NA         NA         NA           TOD         Trinidad and Tobago         Region         NA         NA         NA         NA           TO         Trinidad and Tobago         Berough         NA         NA         NA         NA           TUN         Turkidad and Tobago         Berough         NA         NA         NA         NA           TUN         Turkidad and Tobago         Berough         NA         NA         NA         NA           TUN         Turkidad and Tobago         Berough         NA         NA         NA         NA           TUN         Turkidad and Tobago         Berough         NA         NA         NA         NA           TUN         Turkidad         Turkidad         <	
TKL         Tokelau         Atoll         NA         NA         NA           TKM         Turkmenistan         Province         NA         NA         NA         NA           TLS         East Timor         District Regencies         Sub-district         NA         NA         NA           TON         Tonga         Island Group         NA         NA         NA         NA           TTO         Trinidad and Tobago         Region         NA         NA         NA         NA           TTO         Trinidad and Tobago         Borough         NA         NA         NA         NA           TUN         Tunisia         Governorate         Delegation         NA         NA         NA           TUN         Tunisia         Governorate         Water Body         NA         NA         NA           TUN         Turkey         Province         District         NA         NA         NA           TUV         Tuvalu         Island Council         NA         NA         NA         NA           TUV         Tuvalu         Town Council         NA         NA         NA         NA           TWN         Taiwan         Province         County </td <td></td>	
TKL         Tokelau         Atoll         NA         NA         NA           TKM         Turkmenistan         Province         NA         NA         NA         NA           TLS         Est Timor         District Regencies         Sub-district         NA         NA         NA           TON         Tonga         Island Group         NA         NA         NA         NA           TTO         Trinidad and Tobago         Region         NA         NA         NA         NA           TTO         Trinidad and Tobago         Borough         NA         NA         NA         NA           TUN         Tunisia         Governorate         Delegation         NA         NA         NA           TUN         Tunisia         Governorate         Water Body         NA         NA         NA           TUN         Tunisia         Governorate         District         NA         NA         NA           TUN         Tunisia         Governorate         District         NA         NA         NA           TUN         Tunisia         Governorate         District         NA         NA         NA           TUN         Tunisia         Governorate	
TKM         Turkmenistan         Province         NA         NA         NA           TLS         East Timor         District Regencies         Sub-district         NA         NA         NA           TON         Tonga         Island Group         NA         NA         NA         NA           TTO         Trinidad and Tobago         City         NA         NA         NA         NA           TLO         Trinidad and Tobago         City         NA         NA         NA         NA           TLO         Trinidad and Tobago         Borough         NA         NA         NA         NA           TLO         Trinidad and Tobago         Governorate         Delegation         NA         NA         NA           TLUN         Tunisia         Governorate         Delegation         NA         NA         NA           TLUN         Tunisia         Governorate         Water Body         NA         NA         NA           TUV         Tuvalu         Island Council         NA         NA         NA         NA           TUV         Tuvalu         Island Council         NA         NA         NA         NA           TWN         Taiwan         Pro	
TLS         East Timor         District   Regencies         Sub-district         NA         NA           TON         Tonga         Island Group         NA         NA         NA         NA           TTO         Trinidad and Tobago         City         NA         NA         NA           TTO         Trinidad and Tobago         Borough         NA         NA         NA           TUN         Trividad and Tobago         Borough         NA         NA         NA           TUN         Trividad and Tobago         Borough         NA         NA         NA           TUN         Turbida         Governorate         Delegation         NA         NA           TUN         Turbida         Governorate         Water Body         NA         NA           TUV         Tuvalu         Island Counc	
TON         Tonga         Island Group         NA         NA         NA           TTO         Trinidad and Tobago         Region         NA         NA         NA           TTO         Trinidad and Tobago         City         NA         NA         NA           TTO         Trinidad and Tobago         Borough         NA         NA         NA           TUN         Tunisia         Governorate         Delegation         NA         NA         NA           TUN         Tunisia         Governorate         Water Body         NA         NA         NA           TUV         Tuvalu         Island Council         NA         NA         NA         NA         NA           TUV         <	1
TTO         Trinidad and Tobago         Region         NA         NA         NA           TTO         Trinidad and Tobago         City         NA         NA         NA         NA           TTO         Trinidad and Tobago         Borough         NA         NA         NA         NA           TUN         Trunisia         Governorate         Delegation         NA         NA           TUN         Tunisia         Governorate         Water Body         NA         NA           TUN         Tursia         Governorate         Water Body         NA         NA           TUV         Tuvalu         Island Council         NA         NA         NA           TUV         Tuvalu         Town Council         NA         NA         NA         NA           TUV         Tuvalu         Town Council         NA         NA         NA         NA         NA           TUV         Tuvalu         Town Council         NA	
TTO         Trinidad and Tobago         City         NA         NA         NA           TTO         Trinidad and Tobago         Borough         NA         NA         NA         NA           TUN         Tunisia         Governorate         Delegation         NA         NA           TUN         Tunisia         Governorate         Water Body         NA         NA           TUR         Turkey         Province         District         NA         NA           TUV         Tuvalu         Island Council         NA         NA         NA           TUV         Tuvalu         Town Council         NA         NA         NA           TWN         Taiwan         Province         County         NA         NA           TWN         Taiwan         Province         Municipality         NA         NA           TWN         Taiwan         Province         Municipality         NA         NA           TWN         Taiwan         Province         Municipality         NA         NA           TWN         Taiwan         NA         NA         NA         NA           TWN         Taiwan         NA         NA         NA         NA	
TTO Trinidad and Tobago Borough NA NA NA NA NA TUN Tunisia Governorate Delegation NA NA NA TUN Tunisia Governorate Water Body NA NA NA TUN Tunisia Governorate Water Body NA NA NA TUN Turkey Province District NA NA NA TUV Tuvalu Island Council NA NA NA NA TUV Tuvalu Tuvalu Town Council NA NA NA NA NA TUN Taiwan Province County NA NA NA NA TWN Taiwan Province Municipality NA NA NA TWN Taiwan Special Municipality Special Municipality NA NA TWN Taiwan NA NA NA NA TWN Taiwan NA NA NA NA NA TWN Taiwan NA NA NA NA NA NA TWN Taiwan NA NA NA NA NA NA TZA Tanzania Region District Division NA TZA Tanzania Region Water body Water body NA TZA Tanzania Region District County Sub-county Parish UGA Uganda District Municipality Sub-county Parish UGA Uganda District City council Sub-county Parish UGA Uganda Water body Water body Water body UKR Ukraine Region District NA	
TUN Tunisia Governorate Delegation NA NA NA TUN Tunisia Governorate Water Body NA NA NA TUR Turkey Province District NA NA NA TUV Tuvalu Island Council NA NA NA TUV Tuvalu Tuvalu Town Council NA NA NA NA TWN Taiwan Province County NA NA NA TWN Taiwan Province Municipality NA NA NA TWN Taiwan Special Municipality Special Municipality NA NA TWN Taiwan NA NA NA TZA Tanzania Region District Division NA TZA Tanzania Region District Water body NA UGA Uganda District County Water body NA UGA Uganda District County NA UGA Uganda District Municipality Sub-county Parish UGA Uganda District City council Sub-county Parish UGA Uganda District Na Na NA UKR Ukraine Region District NA N	
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USA United States State County NA NA	
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USA United States State Water body NA NA	
USA United States State Borough NA NA	
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USA United States State Municipality NA NA	
USA United States State City and Borough NA NA	1
USA United States State Independent City NA NA	
USA United States Federal District District NA NA	
UZB Uzbekistan Automonous Region City NA NA NA	
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UZB Uzbekistan Automonous Region Waterbody NA NA	
UZB Uzbekistan City City NA NA	
VAT         Vatican City         NA         NA         NA         NA	
VCT Saint Vincent and the Grenadines Parish NA NA NA NA	

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VEN	Venezuela	NA	Municipality	NA	NA	
VEN	Venezuela	NA	Water Body	NA	NA	
VGB	British Virgin Islands	NA	NA	NA	NA	
VIR	Virgin Islands, U.S.	District	NA	NA	NA	
VNM	Vietnam	Region	Province	District	Commune	
VNM	Vietnam	Region	Province	City	Commune	
VNM	Vietnam	Region	Province	Township	Commune	
VNM	Vietnam	Region	Province	District	Townlet	
VNM	Vietnam	Region	Province	City	Ward	
VNM	Vietnam	Region	Province	Township	Ward	
VNM	Vietnam	Region	City Municipality Thanh Pho	District	Ward	
VNM	Vietnam	Region	City Municipality Thanh Pho	Urban District	Ward	
VNM	Vietnam	Region	City Municipality Thanh Pho	District	Commune	
VNM	Vietnam	Region	Province	District	Ward	
VNM	Vietnam	Region	City Municipality Thanh Pho	District	Townlet	
VNM	Vietnam	Region	City Municipality Thanh Pho	District	Town	
VNM	Vietnam	Region	City Municipality Thanh Pho	Island	Commune	
VNM	Vietnam	Region	City Municipality Thanh Pho	Township	Ward	
VNM	Vietnam	Region	City Municipality Thanh Pho	Township	Commune	
VNM	Vietnam	Region	City Municipality Thanh Pho	Urban District	Commune	
VNM	Vietnam	Region	Province	District	Sub Town	
VNM	Vietnam	Region	Province	Island	Commune	
VNM	Vietnam	Region	Province	Township	Townlet	
VUT	Vanuatu	Province	NA	NA	NA	
WLF	Wallis and Futuna	Kingdom	District	NA	NA	
WSM	Samoa	District	Unknown	NA	NA	
YEM	Yemen	Governorate	District	NA	NA	
YEM	Yemen	City	District	NA	NA	
ZAF	South Africa	Province	Magisterial District	NA	NA	
ZMB	Zambia	Province	District	NA	NA	
ZWE	Zimbabwe	Province	District	NA	NA	
ZWE	Zimbabwe	City	District	NA	NA	