Country Soil Information Survey

This survey is conducted by the Global Soil Partnership as a step towards establishing the Global Soil Information System (GLOSIS). The survey aims to assess soil databases and information systems currently existing on the national level, in order to plan global activities according to the capacities and needs of the countries.

In case of several soil property databases or information systems existing in your country, please submit a separate form for each database / information system.

Any issues with this form can be reported to the GSP Secretariat via GSP-Pillar4@fao.org

*Required

Contact Details

Please provide contact details of the person submitting this form.

1.	Country *
2.	Name *
3.	Surname *
4.	E-mail *
5.	Institution / affiliation *

Databases of Soil Properties

Datal nat, e.g. Oracle, MySQL, P ived maps of soil pr

ostgreSQL, Micro	ng measured values of soil properties in a digital form soft Access, Excel, csv, txt, dbf, shp, tab, etc. (for deri ee section Soil Information Systems)
6. Does your co <i>Mark only one</i>	untry have digital databases of soil properties? *
Yes	
○ No	Skip to question 27.
In proc	ess of establishing

General Questions (database)

7.	7. Name of the database (affiliation) *	
8.	8. Reference (website/paper)	
9.	9. Who are the users of the database? For what purposes the data is used country?	l in your
10.	0. Is the data publicly available? *	
	Mark only one oval.	
	Yes	
	No	
	Other:	
Da	atabase content	
11.	1. What is the main spatial unit of the database? * Mark only one oval.	
	Point-based	
	Polygon-based	
	Other:	
12.	2. How many soil profiles are there in the database? *	
13.	3. How many topsoil samples are there in the database? *	

14.	How many locations with fixed-depth sampling are there in the database? *	
15.	What are the depths for fixed-depth sampling? *	
16.	Is all data georeferenced?*	
	Mark only one oval.	
	Yes	
	No	
	Other:	
17.	What is the age of the data? (e.g. 1980-1990 *	
	hich soil properties are consi Part 1: General Properties *	dered in the database?
	_	
	Soil type	
	Soil depth	
	Organic carbon / organic matter	
	Texture class	
	Sand content	
	Silt content	
	Clay content Bulk density (measured)	
	Coarse fragments (stoniness)	
	pH	
	CEC (cation exchange capacity)	
	Water storage capacity	
	Soil biodiversity paramaters	
	None None	
	Other:	

19. Part 2: Plant Nutrients *		
Tick all that apply.		
Nitrogen (N)		
Phosphorus (P)		
Potassium (K)		
Calcium (Ca)		
Magnesium (Mg)		
Sulfur (S)		
Boron (B)		
Chlorine (CI)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Molybdenum (Mo)		
Zink (Zn)		
None		
Other:		
Guier.		
20. Part 3: Soil Salinity *		
20. Part 3: Soil Salinity * Tick all that apply.		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (Cl-)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (Cl-)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (CI-) Sulfate (SO4)		
20. Part 3: Soil Salinity * Tick all that apply. Electric conductivity (EC) Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (CI-) Sulfate (SO4) Carbonate (CO3)		

	k all that apply.
	Heavy metals (Pb, Cr, Zn, As, Cu, Hg, Ni, Cd, Co)
	PAHs (e.g. oil pollution etc.)
	POPs (e.g. pesticide residues, pharmaceuticals, etc)
	None
	Other:
	base structure & format
rlease	provide information about the database structure.
	at is the format of the database? *
_	. Oracle, MySQL, PostgreSQL, Microsoft cess, Excel, csv, txt, dbf, shp, tab, etc.
Acc	5000, Excer, 600, Ixt, abi, 311p, tab, 616.
23. W r	at kind of metadata is included in the database? *
Tic	k all that apply.
	Measurement units
	Soil analysis methods
	Time (date) of soil survey / soil analysis
	Data source
	Data authorship/ownership
	None
	Other:
24. Ple	ease describe the database structure (optional)
25. Do	you have a quality control for the data in the database? *
	rk only one oval.
	Yes
	No Skip to question 27.
	,

Quality control / quality assessment

26. P	Please describe the quality control/assessment procedure *
-	
_	
_	
An ele	I Information Systems (SIS) ectronic system which allows the users to access (browse, query, download) soil and related nation via an interactive interface (online or through a corporate network)
	Poes your country have a Soil Information System (SIS)? * Mark only one oval.
(Yes
(No Skip to question 40.
(In process of establishing
28. N	lame of the SIS (affiliation) *
S	Poes the SIS derive information from the database, described above in "Databases of soil Properties" section? * Mark only one oval.
(Yes
(No
(Other:
30. R	Reference (website/paper)
	Who are the users of the SIS? For what ourposes SIS is used in your country?
_	

32. Is the data <i>Mark only</i>	a publicly available? * one oval.
() Yes	
O No	
	ner:
Ou Ou	lei
SIS Struc	ture and Content
33. What com	ponents does the SIS have? *
Tick all tha	
Soil	data
Land	use / land management data
Supp etc),	olementary environmental data (land cover, topography, climate, geology, water,
Envir	ronment protection data (soil threats, degradation processes, etc.)
Admi	inistrative boundaries
Othe	r:
Soil h	t data - soil profiles norizons (layers) data associated with profile location t data - topsoil samples gon data - soil mapping units er data - derived soil properties
Othe	
35. Please sp Tick all tha	ecify land use / land management data format (if applicable) * at apply.
Polyg	gon/raster data - land use types
Polyg	gon/raster data - major crops
Polyg	gon/raster data - agricultural systems
Polyg	gon/raster data - crop productivity
Polyg	gon/raster data - irrigation
Polyg	gon data - land owners
None	
Othe	r:

	Polygon/raster data - land cover types (e.g. cropland, grassland, forest, urban, etc.)
	Polygon/raster data - topography (e.g. elevation, slope, etc.)
	Polygon/raster data - climate (e.g. mean temperature, rainfall, etc.)
	Polygon/raster data - geology (e.g. geology map, map of Quaternary sediments, etc
eve	Polygon/raster data - water (e.g. watersheds, water quality for irrigation, ground wat l, etc.)
	None
	Other:
	Point data - soil monitoring sites
ICK	all that apply.
	Point data - contaminated sites
_	Polygon/raster data - contaminated areas
	Raster data - greenhouse gas emissions
	Raster data - carbon sequestration potential
	Polygon/raster data - eroded soils
	Polygon/raster data - soil erosion risk
	Polygon/raster data - salt-affected areas
	Polygon/raster data - salinization risk
	Polygon/raster data - salinization risk Polygon/raster data - soil compaction
	•
	Polygon/raster data - soil compaction
	Polygon/raster data - soil compaction Polygon/raster data - soil acidification
	Polygon/raster data - soil compaction Polygon/raster data - soil acidification Polygon/raster data - soil sealing

39. Please, describe the pri	inciples of organization of the SIS (optional)
Soil Monitoring	
	e a soil monitoring system? *
Mark only one oval.	
Yes	
No Skip to qu	uestion 45.
Other:	
Which soil propert	ies are being monitored?
41. Part 1: General Propert	ies *
Tick all that apply.	
Soil type	
Soil depth	
Organic carbon / or	ganic matter
Texture class	
Sand content	
Silt content	
Clay content	
Bulk density (measi	ured)
Coarse fragments (stoniness)
pH	
CEC (cation exchar	nge capacity)
Water storage capa	city
Soil biodiversity par	amaters
None	
Other:	

42. Part 2: Plant Nutrients *		
Tick all that apply.		
Nitrogen (N)		
Phosphorus (P)		
Potassium (K)		
Calcium (Ca)		
Magnesium (Mg)		
Sulfur (S)		
Boron (B)		
Chlorine (CI)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Molybdenum (Mo)		
Zink (Zn)		
None		
Other:		
43. Part 3: Soil Salinity / Alkalinity *		
Tick all that apply.		
Electric conductivity (EC)		
Sodium Adsorption Ratio (SAR)		
Sodium Adsorption Ratio (SAR) Total Soluble Salts (TSS)		
Total Soluble Salts (TSS)		
Total Soluble Salts (TSS) Sodium (Na+)		
Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++)		
Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++)		
Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (Cl-)		
Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (Cl-) Sulfate (SO4)		
Total Soluble Salts (TSS) Sodium (Na+) Magnesium (Mg++) Calcium (Ca++) Chloride (CI-) Sulfate (SO4) Carbonate (CO3)		

44. Part 4: Soil Pollution / Contamination *	
Tick all that apply.	
Heavy metals (Pb, Cr, Zn, As, Cu, Hg, Ni,	Cd, Co)
PAHs (e.g. oil pollution etc.)	
POPs (e.g. pesticide residues, pharmace	uticals, etc)
None	
Other:	
Final questions and remarks	
45. Do you think it is necessary for your country to improve the existing ones)? * Mark only one oval.	y to develop a Soil Information System (or
Yes	
No	
46. Comments / remarks	

