



# Understanding the KSSL Laboratory Data

# Soil samples grouped by Project

## KSSL Laboratory Project Name

Type 'C' - characterization, 'I' - investigation, 'R' - reference, 'O' - other, 'S' - standard

Fiscal Year in four digit format

FIPS country code

FIPS US state code (or secondary administrative code for foreign countries)

Sequential Number within the fiscal year starting at one in three digit format

Example: R2004TU01037 - Reference, 2004, Turkey, Adana (province), 37<sup>th</sup> project

## SSL Laboratory Project Name

Type 'C' - characterization, 'R' - reference

Longevity 'P' - permanent, 'Z' - temporary

Fiscal Year in two digit format, implied 19<sup>th</sup> century

FIPS US state code or FN for foreign country

Sequential Number within the fiscal year starting at one in three digit format

Example: CP78IN024 - Characterization, 1978, Indiana, 24<sup>th</sup> project

## Cooperating Laboratory Project Name

Varies, but always contains Fiscal Year in four digit format, Sequential Number within the fiscal year, and laboratory identifier

Example: VTC201201 - Virginia Tech, 2012 (year data was loaded), 1<sup>st</sup> project

Name	Date modified	Type	Size
I2009USTX127			
I2009USVA055			
I2009USWI012			
I2010HA06101			
I2010HA06102			
I2010HA06103			
I2010PM08055			
I2010USCO056			
I2010USFN040			
I2010USFN071			
I2010USFN097			
I2010USFN132			
I2010USHI133			
I2010USIN050			
I2010USMT107			
I2010USNE053			
I2010USNL024			
I2010USNL031			
I2010USNM070			
I2010USPA003			
I2010USTN048			
I2010USTN085			
I2010USVA051			
I2010USVT004			
I2011AF13183			
I2011USDE187			
I2011USCN027			
146657respray	5/30/2013 12:45 PM	Adobe Acrobat Docum...	101 KB
146654respray	5/30/2013 12:44 PM	Adobe Acrobat Docum...	97 KB
146664	5/30/2013 10:33 AM	Adobe Acrobat Docum...	95 KB
146661	5/30/2013 10:29 AM	Adobe Acrobat Docum...	97 KB
146657	5/30/2013 10:25 AM	Adobe Acrobat Docum...	101 KB
146654	5/30/2013 10:21 AM	Adobe Acrobat Docum...	99 KB
Re samples received at NRCS soil lab b	12/22/2010 8:59 AM	HTML Document	63 KB
RE samples received at NRCS soil lab	12/17/2010 1:34 PM	HTML Document	34 KB
ProjAnalList	12/17/2010 1:31 PM	HTML Document	108 KB
ProjAnalList1	12/17/2010 1:31 PM	HTML Document	97 KB
PaPim Haiti Soils NRCS updated sample l...	11/29/2010 10:39 ...	Text Document	1 KB
PaPim Haiti Soils NRCS updated sample l...	11/29/2010 9:35 AM	Microsoft Excel Worksh...	12 KB
projcoverltr5	8/25/2010 4:22 PM	Adobe Acrobat Docum...	43 KB
projcoverltr5	8/25/2010 4:21 PM	HTML Document	35 KB
projcoverltr4	8/25/2010 4:05 PM	HTML Document	5 KB
projcoverltr3	8/25/2010 3:56 PM	HTML Document	5 KB
projcoverltr2	8/25/2010 3:56 PM	HTML Document	5 KB
projcoverltr1	8/25/2010 3:49 PM	HTML Document	5 KB
projcoverltr	8/25/2010 3:49 PM	HTML Document	5 KB
AfSIS Soil Reference Methods 2010524	8/25/2010 9:59 AM	Microsoft Word 97 - 20...	852 KB
Re_ Haiti Digital Soil Map	8/23/2010 3:10 PM	Adobe Acrobat Docum...	83 KB
Haiti samples from Columbia UN.	6/30/2010 8:17 AM	Text Document	1 KB
FW Haiti Digital Soil Map	6/30/2010 8:17 AM	HTML Document	62 KB
PaPim Haiti Soils NRCS	6/25/2010 1:53 PM	Microsoft Excel Worksh...	32 KB
Soil Permit Letter Fischer	6/7/2010 2:15 PM	Adobe Acrobat Docum...	175 KB

# Project-Site-Pedon-Horizon-Sample

## KSSL Soil Sampling Project - Information Sheet and Instructions for Submitting Samples to the Kellogg Soil Survey Laboratory

Project Name:

Project Leader or Submitter Phone #:

MO #:

	Name	Email
NSSC Liaison/project coordinator		
Project Leader or Submitter		
SDQS		
State Soil Scientist or RO Director		
Others who should receive lab data		

KSSL Pedon Field Sheet																
Soil Name ==>			User Pedon ID ==>			Sampled Date ==>										
Tax Class					Datum		Lat ==>		Long ==>							
Ctrl Sect Top >		Ctrl Sect Bot ==>		MLRA Code >		SSA Code ==>		NASIS Pedon Record ID ==>								
Field Observations					# of Samples		Volume		Weight		Volume % (estimated)					
Field #	Top Depth (cm)	Bot. Depth (cm)	Hzn #	Horizon Nomenclature	Field Texture	# Bulk Samp Bag	# Bulk Density clod (3)	# Natural Fabric Clod (2)	# Other (core, compliant cavity...)	Volume (cc) of core or compliant cavity	< 20 mm (<3/4 in) less tare	20-75mm (3/4-3 in) less tare	2-150mm (6.1-6 in)	150-360mm (6-15.5 in)	360-600mm (15.5-25 in)	>600mm (>25 in)
0			1													
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			10													
			11													
			12													
			13													
			14													
			15													
			16													

Reason For Sampling:

C2014HA11043 - Project View

Project Lab Name: C2014HA11043

Status: in progress

Project Submit Name: Haiti Soil Survey Pilot Project 2014

Project Coordinator: Steve Monteith

Project Priority: 1

Reimbursement: ☐

SSL Only Project: ☐

Project: C2014HA11043 - Haiti Soil Survey Pilot Project 2014

Site ID: S2014HA00U001

P: 14N0356 - S2014HA00U001 [ 25-100 ];

L: 14N01930 - S2014HA00U001-1 ( A1 ) [ 0.0-10.0 ] Silt loam

S: 226221 bulk [1443.600 grams]- normal

S: 226301 clod [ grams]- normal

S: 226302 clod [ grams]- normal

S: 226303 clod [ grams]- normal

L: 14N01931 - S2014HA00U001-2 ( A2 ) [ 10.0-30.0 ] Sandy loam

S: 226222 bulk [1036.300 grams]- normal

S: 226304 clod [ grams]- normal

S: 226305 clod [ grams]- normal

S: 226306 clod [ grams]- normal

L: 14N01932 - S2014HA00U001-3 ( Bw1 ) [ 30.0-70.0 ] Silt loam

S: 226223 bulk [1200.500 grams]- normal

S: 226307 clod [ grams]- normal

S: 226308 clod [ grams]- normal

S: 226309 clod [ grams]- normal

L: 14N01933 - S2014HA00U001-4 ( Bw2 ) [ 70.0-110.0 ] Silt loam

S: 226224 bulk [1120.800 grams]- normal

S: 226310 clod [ grams]- normal

S: 226311 clod [ grams]- normal

S: 226312 clod [ grams]- normal

L: 14N01934 - S2014HA00U001-5 ( C1 ) [ 110.0-155.0 ] Silt loam

S: 226225 bulk [1166.900 grams]- normal

S: 226313 clod [ grams]- normal

S: 226314 clod [ grams]- normal

S: 226315 clod [ grams]- normal

L: 14N01935 - S2014HA00U001-6 ( Ck ) [ 155.0-200.0 ] Silt loam

S: 226226 bulk [1263.200 grams]- normal

S: 226316 clod [ grams]- normal

S: 226317 clod [ grams]- normal

S: 226318 clod [ grams]- normal



# Analysis scheme requests Preparations

- [-] Atterberg Limits (58)
- [-] Bulk Density, Clod (52)
- [-] Calcium Carbonate Equivalent, <2mm (89)
- [-] Calcium Carbonate Equivalent, 2-20mm (48)
- [-] CEC and Cations, Routine (125)
- [-] Clay Mineralogy, X-ray Diffraction (13)
- [-] Effervescence, 1N HCl (81)
- [-] Elements, Mehlich III (86)
- [-] Extractable Acidity, BaCl2-TEA (80)
- [-] Gypsum, <2mm (84)
- [-] KCl Extract (83)
- [-] Major Elements (82)
- [-] Micromorphology, Thin Section (1)
- [-] Mid Infrared (80)
- [-] Optical Analysis, Full Count (23)
- [-] pH, Routine (83)
- [-] Phosphorus, Mehlich III (147)
- [-] Phosphorus, Olsen (109)
- [-] PSDA, Air-dry, <2 mm Particles (87)
- [-] Salt Predict (83)
- [-] Saturated Paste and Soluble Salts (40)
- [-] Total Nitrogen, Carbon and Sulfur (126)
- [-] Trace Elements (82)
- [-] Visible Near Infrared (80)
- [-] Water Retention, 15 Bar, Pressure-Plate, <2mm (80)
- [-] Water Retention, 2 Bar, Pressure-Plate, <2mm (80)
- [-] Water Retention, ADOD (125)

## Selected Preparations

	Name	Code	Sample Type	Container Type	Master Code	Moist State	Original SF	Final SF	Master Abbrev
▶	S Prep, 2 to 20 mm Particles, Wor	S_SK-WKPT	bulk	pint	S_SK	air-dry	2-20 mm	<2 mm	Sgj
	S Prep, <2 mm Storage Preparati	S-2MMSTR	bulk	pint	S	air-dry	<2 mm	<2 mm	Sjj
	S Prep, Air-dry/Ovendry Preparati	S-ADOD	bulk	weighing can	S	air-dry	<2 mm	<2 mm	Sjj
	S Prep, Bulk Storage Preparation	S-BULKSTR	bulk	sample bag, 8	S	air-dry	whole soil	whole soil	Saa
	S Prep, Fine Grind Preparation	S-FNGD	bulk	scintillation vial	S	air-dry	<2 mm	<80 Mesh	Sjf
	S Prep, Working Pint Preparation	S-WKPT	bulk	pint	S	air-dry	<2 mm	<2 mm	Sjj
	HM Prep, 200 Mesh	HM-F200	bulk	scintillation vial	HM	air-dry	<2 mm	<200 Mesh	Hjv
	S Prep, VNIR Preparation	S-VNIR	bulk	scintillation vial	S	air-dry	<2 mm	<2 mm	Sjj



S-BULKSTR Air-dry Whole Soil



M-WKPT Moist <2 mm



S-FNGD Air-dry <80 mesh

# Analyses results are aggregated

NATIONAL SOIL SURVEY CENTER - SOIL SURVEY LABORATORY																							
---- CATION EXCHANGE CAPACITY - EXTRACTED BASES ----																							
		PREP	<-- NH4OAC EXTRACTABLE -->					SUM	BASE	EXTR	CA/MG	CA	VOL	<--- DIL RATIO --->				SAMP	TITER	HCL	ADDD	GYPSUM	LIMS
SAMPLE ID	HORIZON	CODE	CEC	CA	MG	NA	K	BASE	SAT	NA	Ratio	SAT	EXT	CA	MG	NA	K	WT		NORM	CORR	Batch	
<----- MEQ/100 gm ----->									%	%	Ratio	%	ml					gm	ml		RATIO	FLAG	ID
S2012NC1350 02-25	Bt1		13.2	2.7	2.2	--	0.6		42		1.2	20.5	58.67										
192818		S	No Titer	2.2	2.1	0	0.6						56.19	20	20	20	20	2.502		0.092	1.024		36355-20
192818		S	No Titer	2.3	2.1	0	0.6						58.5	20	20	20	20	2.499		0.092			36355-21
192818		S	12.4	0	2	0	0.6						58.38	20	20	20	20	0.499	0.659	0.092	1.024		36553-3
192818		S	22	0	2	0	0.5						61.32	20	20	20	20	0.5	1.168	0.092			36553-4
192818		S	14	2.9	2.2	0	0.5						58.71	20	20	20	20	1.001	1.482	0.092	1.024		36624-3
192818		S	13	2.9	2.2	0	0.5						58.22	20	20	20	20	1.001	1.384	0.092			36624-4
192818		S	12.8	2.4	2.3	0	0.6						59.03	20	20	20	20	1.005	1.317	0.0956	1.024		38031-1
192818		S	12.8	2.5	2.2	0	0.5						58.73	20	20	20	20	0.996	1.302	0.0956	1.024		38031-2

Layer Label	Layer Sample Number	Horizon	Top Depth	Bottom Depth	Analyte	Value	Number of	Std Dev	Procedure	Preparation	Size Fractio	Instrument Set
S04NE-153-017-001	04N05105	Ap	0	10	ph_h2o	6.398333	6	0.514	PHROUT	S	<2 mm	Titroprocessors
	LIMS Batch	Position	Sample		Analyte	Value	Status		Procedure	Preparation	Size Fractio	Instrument Set
		9210	10	68159	Ap	ph_h2o	6.62	validated	PHROUT	S-WKPT	<2 mm	Titroprocessors
		10973	6	68159	Ap	ph_h2o	6.98	validated	PHROUT	S-WKPT	<2 mm	Titroprocessors
		11104	6	68159	Ap	ph_h2o	6.95	validated	PHROUT	S-WKPT	<2 mm	Titroprocessors
		9210	11	68160	Ap	ph_h2o	5.9	validated	PHROUT	S-WKPT	<2 mm	Titroprocessors
		11104	7	68160	Ap	ph_h2o	5.88	validated	PHROUT	S-WKPT	<2 mm	Titroprocessors
		10973	7	68160	Ap	ph_h2o	6.06	validated	PHROUT	S-WKPT	<2 mm	Titroprocessors



# Laboratory data for the NCSS

## NCSS Lab Data Mart

National Cooperative Soil Survey  
Universities, State Agencies,  
Federal Agencies, and Private Members

Home / Basic Query Advanced Query Sampled Pedon Locations Sampled Pedon Locations with Geochemical Data Data Usage User Manual FAQs Links Contact Us

### Welcome

Welcome to the website for the National Cooperative Soil Survey (NCSS) Soil Characterization Database. This application allows you to generate, print, and download reports containing soil characterization data from the National Soil Survey Center (NSSC) Kellogg Soil Survey Laboratory (KSSL) and cooperating laboratories. The data are stored and maintained by the NSSC-KSSL. Data can be viewed onscreen or downloaded in comma-delimited text files for use in other applications.

If you are a first-time user, please read the [Data Usage](#) information before accessing the database.

[Sign up for E-mail updates on the NCSS Lab Data Mart](#)

#### NCSS Soil Characterization Basic Query

Clear All Search Criteria

Site Information

Country  State or Other Administrative Division  County

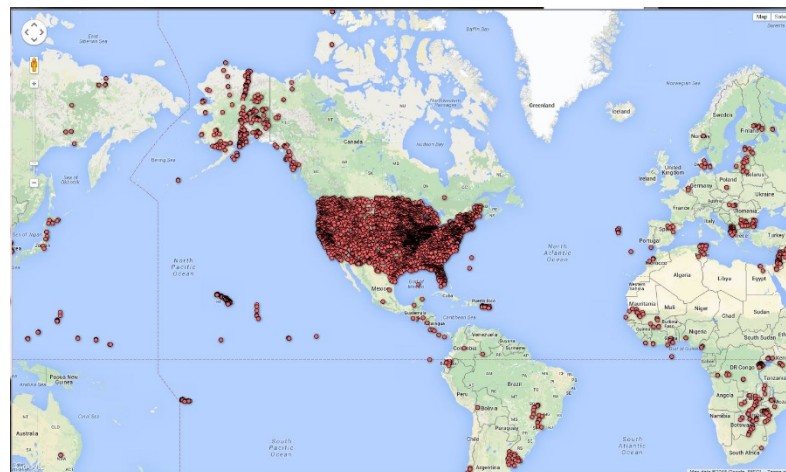
Lab Pedon Number

User Pedon ID

Soil Series

Execute Query

## NCSS Microsoft Access Soil Characterization Database



## Locations of Sampled Pedons

FILE

HOME

CREATE

EXTERNAL DATA

DATABASE TOOLS

REELS

TOOLS

Undo

Cut

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy

Copy