

# Web Soil Survey

Carmen L. Santiago  
USDA –NRCS, Caribbean Area  
State Soil Scientist  
[carmen.santiago@pr.usda.gov](mailto:carmen.santiago@pr.usda.gov)

# ¿Qué es el “Web Soil Survey”?

- El “Web Soil Survey (WSS, por sus siglas en Inglés) provee **información o datos oficiales sobre suelos.** Esta información es producida por el Programa Nacional Cooperativo de Levantamientos de Suelos de EUA.
- La información de suelo se puede obtener a través de mapas.
- La página interactiva es la única fuente oficial de información de suelos actualizada.

# ¿Cómo acceso al “Web Soil Survey”?

- Puedes acceder al “web soil survey” utilizando las siguientes direcciones electrónicas:
  - <http://soils.usda.gov/>
  - <http://websoilsurvey.nrcs.usda.gov/app/>
  - <http://www.pr.nrcs.usda.gov/>
- Para acceder un folleto, en español, con instrucciones del WSS:
  - [ftp://ftp-fc.sc.egov.usda.gov/NSSC/pub/WSS\\_brochure\\_spanish.pdf](ftp://ftp-fc.sc.egov.usda.gov/NSSC/pub/WSS_brochure_spanish.pdf)

Search

Caribbean Area  
Enter Keywords GO

Quick Access

- ▶ Earth Team
- ▶ Volunteers
- ▶ Electronic Government
- ▶ Employment
- ▶ Employee Directory
- ▶ Farm Bill
- ▶ Hurricane Preparedness
- ▶ Legislative
- ▶ NRCS en Español
- ▶ Photo Gallery
- ▶ Publications
- ▶ Site Map
- ▶ USDA en Español

▶ Find a Service Center

Welcome to the NRCS Caribbean Area: Puerto Rico & U.S. Virgin Islands Web Site!

- ▶ 2007 Caribbean Area Natural Resources Inventory now available!
- ▶ Caribbean Area NRCS: Proud to Celebrate USDA's 150th Anniversary! (en Español) (PDF, 92 KB)
- ▶ Highly Erodible Land Conservation and Wetland Conservation Compliance Factsheet (PDF, 163 KB) - NEW!
- ▶ NRCS "The Caribbean" Newsletter - March 2012 Issue now available! (PDF, 647 KB)



NRCS Announces National Water Quality Initiative Conserva...

NRCS Caribbean Area Director, Edwin Almodóvar, announces the launch of a new **National Water Quality Initiative** committed to improving impaired waterways in western Puerto Rico. USDA's Natural Resources Conservation Service (NRCS) will manage the initiative by making funds available to farmers, ranchers and forest landowners in the **Rio Grande de Añasco** watershed. All applications for funding consideration during this fiscal year must be received by **June 15, 2012**.

..More Info on NWQI (en Español)



NRCS Funds Emergency Watershed Protection in Puerto Rico (en Español)

NRCS Caribbean Area Director, Edwin Almodóvar, announces that the Caribbean Area NRCS has been allocated \$1,800,000 in Emergency Watershed Protection (EWP) funds to help nine (9) communities in Puerto Rico recover from damages caused by Hurricane Irene in August 2011.

..More Info on EWP (en Español)



New CRP Highly Erodible Cropland Conservation Initiative

USDA announces a new Conservation Reserve Program (CRP) initiative to protect up to 750,000 acres nationwide by helping producers identify their most highly erodible cropland (HEL). CRP provides resources to enable producers to plant wildlife-friendly cover on their land. Producers can enroll land on a continuous basis, beginning this summer, with their [local Farm Service Agency \(FSA\) county office](#). FSA local staff will be able to quickly determine a producer's eligibility in the initiative. For more information, [contact your local FSA office](#).

..More Info on Conservation Reserve Program



FY12 Conservation Program Sign-up Continues

The NRCS Caribbean Area announces that the Environmental Quality Incentives Program (EQIP) sign-up for 2012 is continuing and applications will be accepted year-round. Caribbean Area agricultural producers will also be able to apply for cost share funding for the EQIP Organic and On-Farm Energy Initiatives.

..More Info on EQIP

Selecciona "Soils"

Information About:

- ▶ Soils
- ▶ Water
- ▶ Air
- ▶ Plants
- ▶ Animals

Information For:

- ▶ Communities
- ▶ Farmers and Ranchers
- ▶ Homeowners
- ▶ CB NRCS Employees
- ▶ Policy Makers
- ▶ Teachers and Students
- ▶ Technical Service Providers (en Español)
- ▶ Volunteers



Web Soil Survey

Energy Estimator



Search

Caribbean Area Enter Keywords GO

Technical Resources

- > Agronomy
- > Biology
- > Ecology
- > eFOTG
- > Engineering
- > Natural Resources Inventory
- > Plants
- > Soils
- > Water

Find a Service Center

## Caribbean Area Soils

### Helping People Understand Soils

Updated June 18, 2012

The Caribbean Area, comprised of Puerto Rico and the United States Virgin Islands, is part of the National Cooperative Soil Survey (NCSS) program. The National Cooperative Soil Survey (NCSS) is a nationwide partnership of federal, regional, state, and local agencies and institutions. This partnership works together to cooperatively investigate, inventory, document, classify, and interpret soils and to disseminate, publish, and promote the use of information about the soils of the United States and its trust territories. The activities of the NCSS are carried out on national, regional, and state levels.

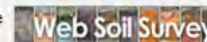
NEW! Unlock the Secrets of Soil - USDA-NRCS YouTube video



### Caribbean Area Soils Information

Some of this information requires [Adobe Acrobat](#)

- [New San Germán Soil Survey Now Available!](#)
- [Soil Data Mart](#) - The most current official soil information. Determine and download soil tabular and spatial data for one soil survey area at a time. Generate a variety of reports for one soil survey area at a time.
- [Web Soil Survey](#) - Access to soil survey information is provided through maps. All text and tables relate to the map symbols and the areas delineated on these maps.



Selecciona el enlace "Web Soil Survey"



USDA United States Department of Agriculture Natural Resources Conservation Service

Web Soil Survey

Home About Soils Help Contact Us

Inicie su sesión de "Web Soil Survey" aquí.



- Search
- Enter Keywords
- All NRCS Sites
- Browse by Subject
- Soils Home
  - National Cooperative Soil Survey (NCSS)
  - Archived Soil Surveys
  - Status Maps
  - Official Soil Series Descriptions (OSD)
  - Soil Series Extent Mapping Tool
  - Soil Data Mart
  - Geospatial Data Gateway
  - eFOTG
  - National Soil Characterization Data
  - Soil Geochemistry Spatial Database
  - Soil Quality
  - Soil Geography
  - Geospatial One Stop

Welcome to web Soil Survey (WSS)



Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service (NRCS) and provides access to the largest natural resource information system in the world. NRCS has soil maps and data available online for more than 95 percent of the nation's counties and

anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

Four Basic Steps

1 Define.

Area of Interest (AOI)

Use the Area of Interest tab to define your area of interest.



Click to view larger image.

2 View.

Soil Map

Click the Soil Map tab to view or print a soil map, and detailed descriptions of the soils in your Area of Interest.



I Want To...

- Start Web Soil Survey (WSS)
- Know the requirements for running Web Soil Survey — will Web Soil Survey work in my web browser?
- Know the Web Soil Survey hours of operation
- Find what areas of the U.S. have soil data

Announcements/Events

- Web Soil Survey 2.3 has been released! View description of new features.
- Web Soil Survey Release History

I Want Help With...

- Getting Started With Web Soil Survey
- How to use Web Soil Survey
- How to use Web Soil Survey Online Help
- Known Problems and Workarounds
- Frequently Asked Questions
- Citing Web Soil Survey as a source of soils data

Seleccione su área de interés (AOI)

File Edit View Favor

http://websoilsurvey.nrc.usda.gov/nrc/Default.aspx?Page=WebSoilSurvey.aspx

Favorites | Fre

Web Soil Survey

USDA United States Department of Agriculture Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download S | Data | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

- Search
- Area of Interest
  - Import AOI
- Quick Navigation
  - Address
  - State and County
  - Soil Survey Area
  - Latitude and Longitude
  - PLSS (Section, Township, Range)
  - Bureau of Land Management
  - Department of Defense
  - Forest Service
  - National Park Service
  - Hydrologic Unit

**Area of Interest Interactive Map**

View Extent: Contiguous U.S.

Scale: (not to scale)

0 480mi

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

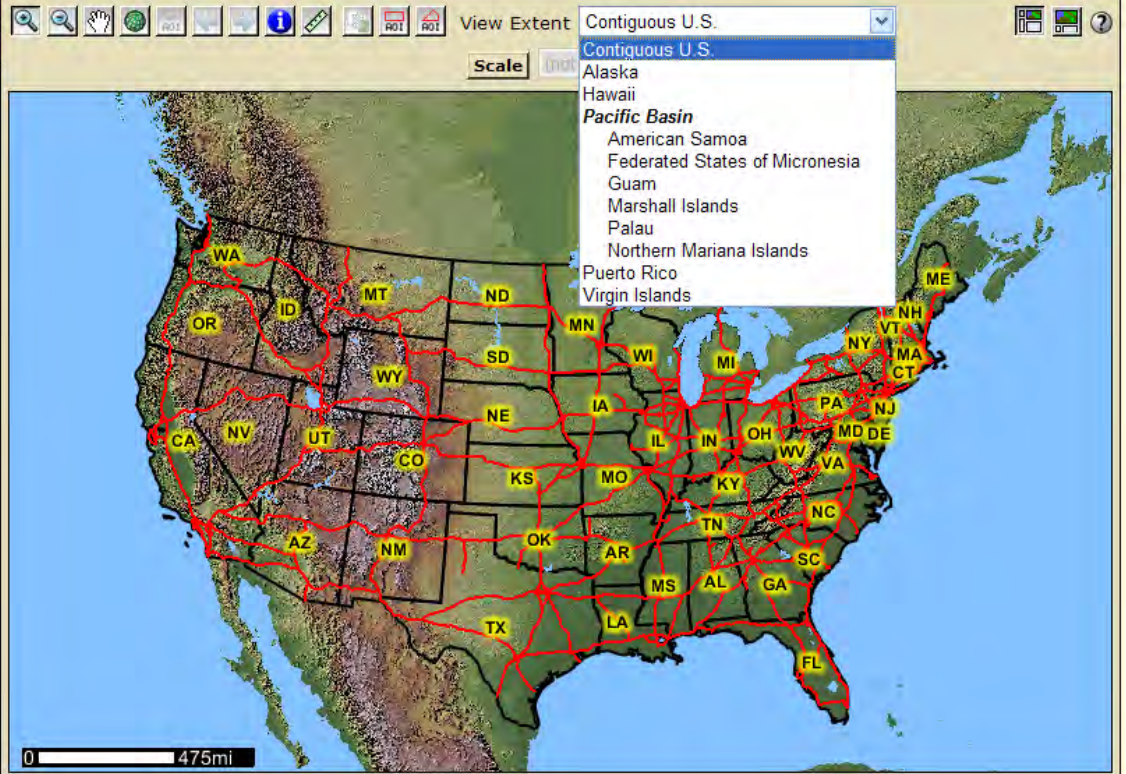
Department of Defense

Forest Service

National Park Service

Hydrologic Unit

Area of Interest Interactive Map



En el menú, seleccione a Puerto Rico o las Islas Vírgenes



Puede importar archivos ".shp" "shapefile" o "zipped shapefile" comprimido con su área de interés (AOI)

Necesita ambas extensiones, ".shp" y ".prj"

**IMPORTANTE:**  
El archivo importado debe ser una delineación simple, sin subdivisiones

**Search**

**Area of Interest**

**Import AOI**

**Create AOI from Shapefile**

Set AOI ?

.shp file  Browse...

.prj file  Browse...

Set AOI

Create AOI from Zipped Shapefile

**Quick Navigation**

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit



Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Search

Area of Interest

Import AOI

Create AOI from Shapefile

Create AOI from Zipped Shapefile

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

View ?

Latitude, Longitude 182742N,662440W

Show location marker

View

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

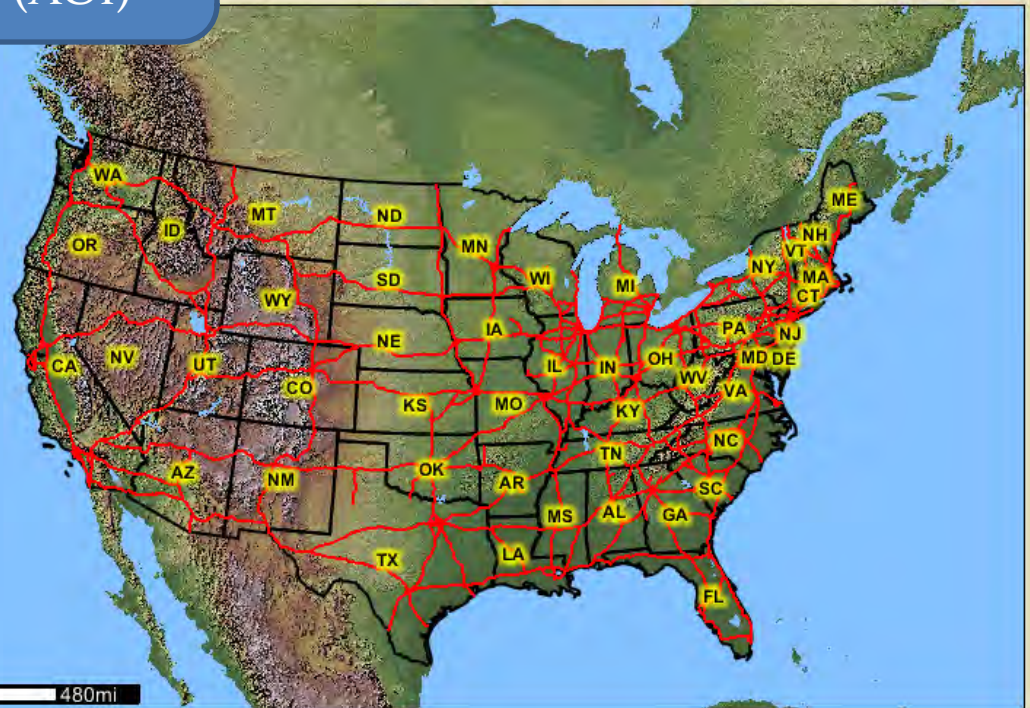
National Park Service

Hydrologic Unit

Puedes utilizar la latitud y longitud de su área de interés (AOI)

View Extent Contiguous U.S.

Scale 1:100,000



Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI View

State Puerto Rico

County (optional)

Soil Survey Area San German Area, Southwestern Puert

Show Soil Survey Areas Layer in Map

Set AOI View

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

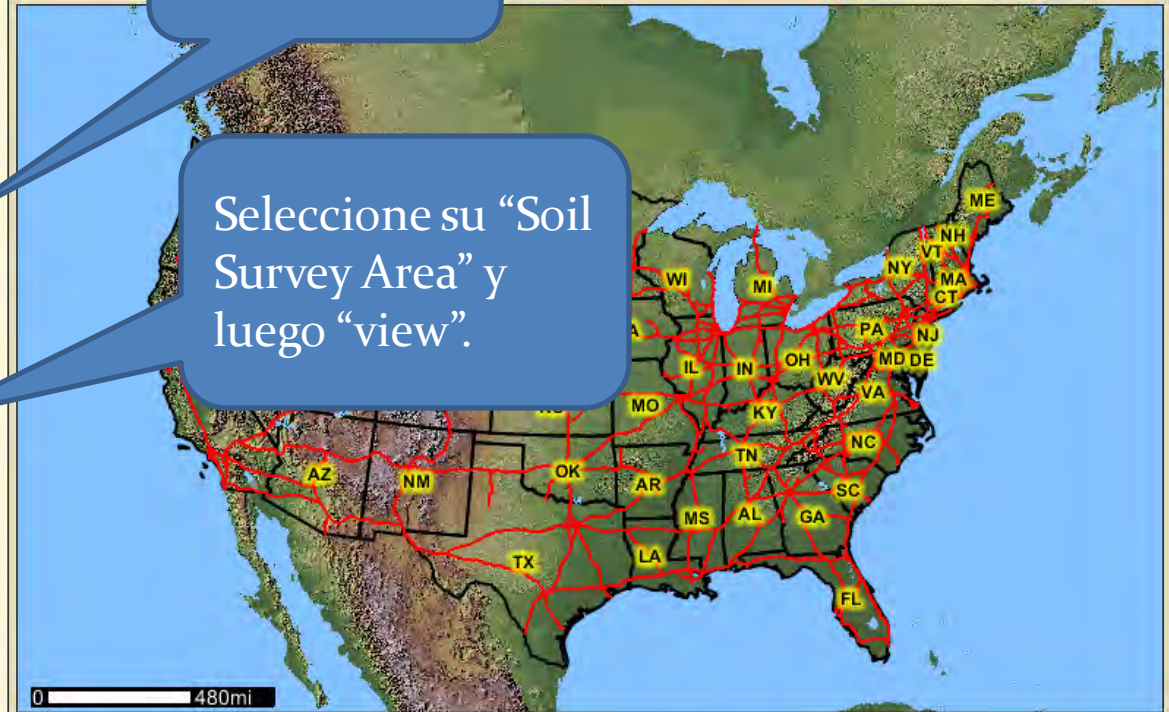
Hydrologic Unit

Area of Inter

Legend

Seleccione su Estado

Seleccione su "Soil Survey Area" y luego "view".



Vaya a la leyenda

**Search**

**Area of Interest**

Import AOI

**Quick Navigation**

Address

State and County

**Soil Survey Area**

Set AOI View

State: Puerto Rico

County (optional):

Soil Survey Area: San German Area, Southwestern Puerto Rico

Show Soil Survey Areas Layer in Map

Set AOI View

Latitude and Longitude

PLSS (Section, Township, Range)

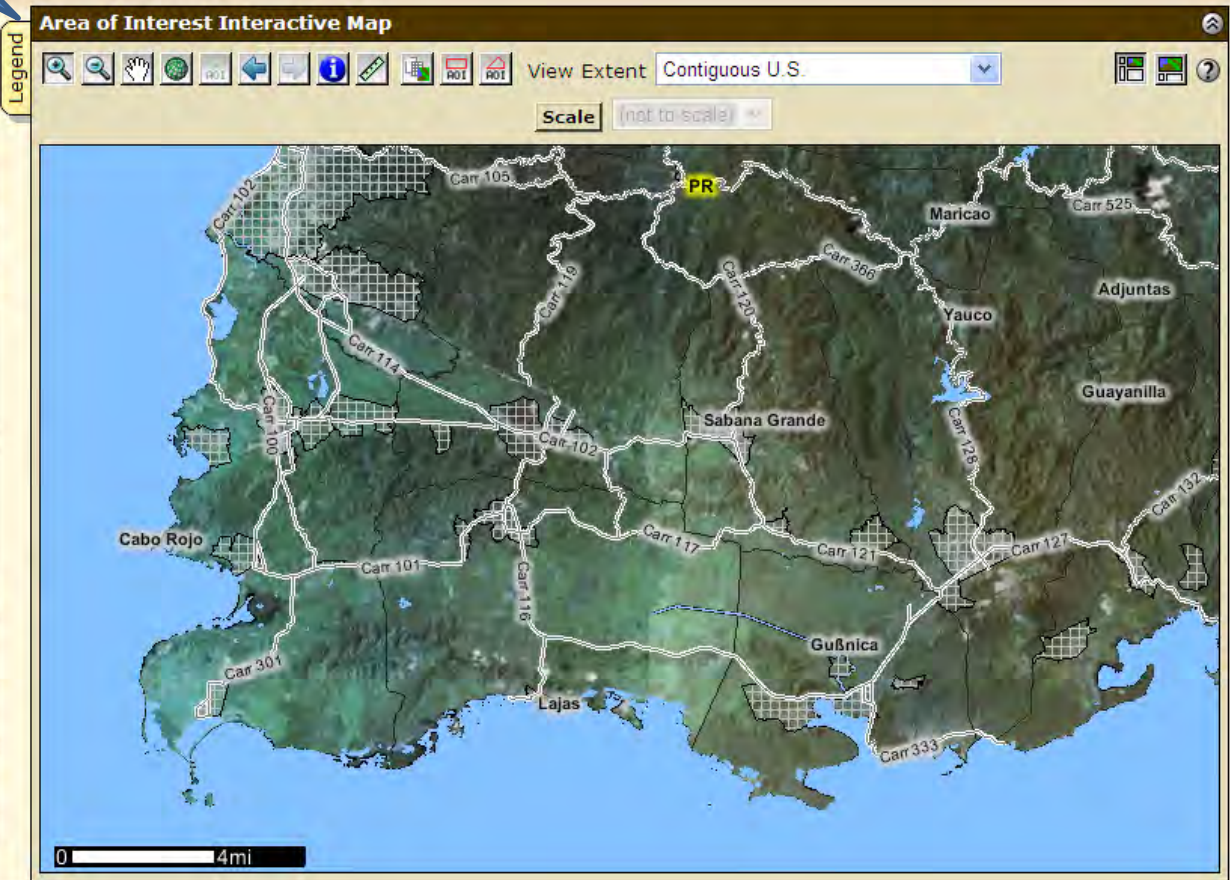
Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit



Puede ver las capas digitales disponibles y cambiar el fondo de fotografía aérea a mapa topográfico.

Area of Interest (AOI) Soil Map Soil Data

Search Map Legend

Map Legend

- PLSS Township and Range
- PLSS Section
- Federal Land
  - Bureau of Land Management
  - Bureau of Reclamation
  - Department of Defense
  - Fish and Wildlife Service
  - Forest Service
  - National Park Service
  - Tennessee Valley Authority
- Water Features
  - Oceans
  - Water
  - Streams and Canals
  - 8-Digit Hydrologic Units
- Transportation
  - Rails
  - Interstate Highways
  - US Routes
  - Major Roads
  - Local Roads
- Background (only one is visible at a time)
  - Aerial Photography
  - Topographic Map
  - Shaded Relief

View Extent Contiguous U.S.

Scale (not to scale)

0 4mi

Aquí se encuentra la barra de herramientas interactivas

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI View ?

State Puerto Rico

County (optional)

Soil Survey Area San German Area, Southwestern Puerto Rico

Show Soil Survey Areas Layer in Map

Set AOI View

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

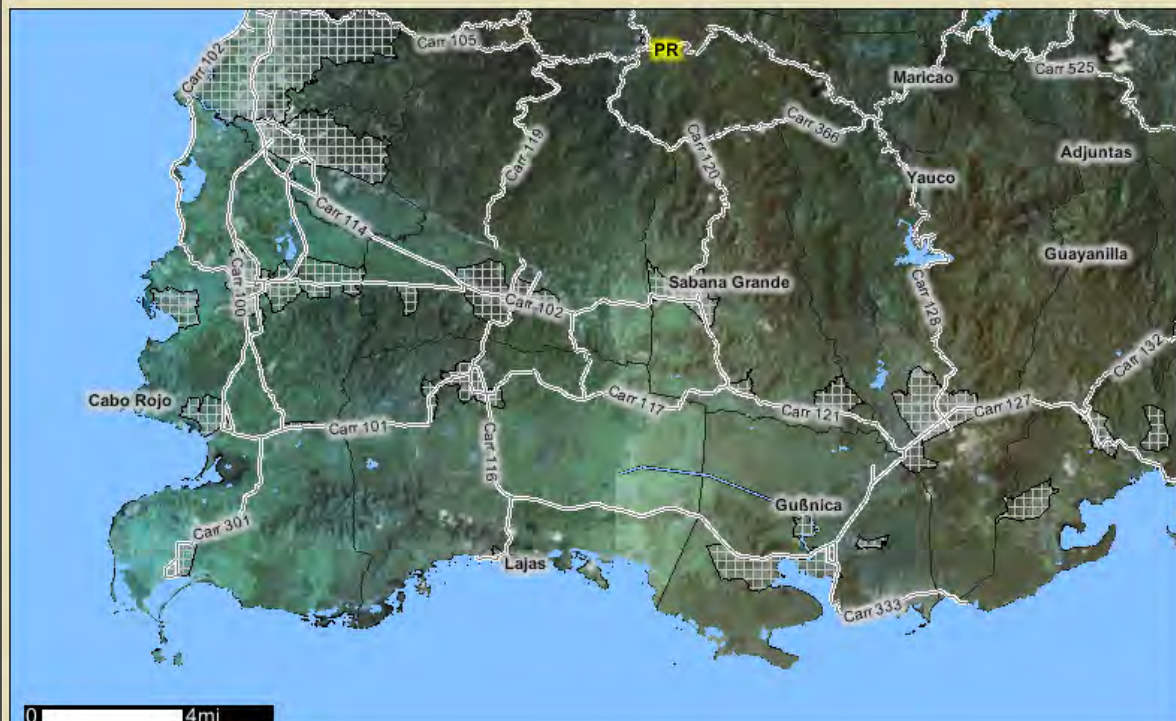
National Park Service

Hydrologic Unit

Area of Interest Interactive Map

View Extent Contiguous U.S.

Scale (not to scale)



0 4mi

Selecciona el área de interés con el rectángulo (AOI)

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI

View

State Puerto Rico

County (optional)

Soil Survey Area San German Area, Southwestern Puerto Rico

Show Soil Survey Areas Layer in Map

Set AOI

View

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit

Area of Interest Interactive Map

Legend

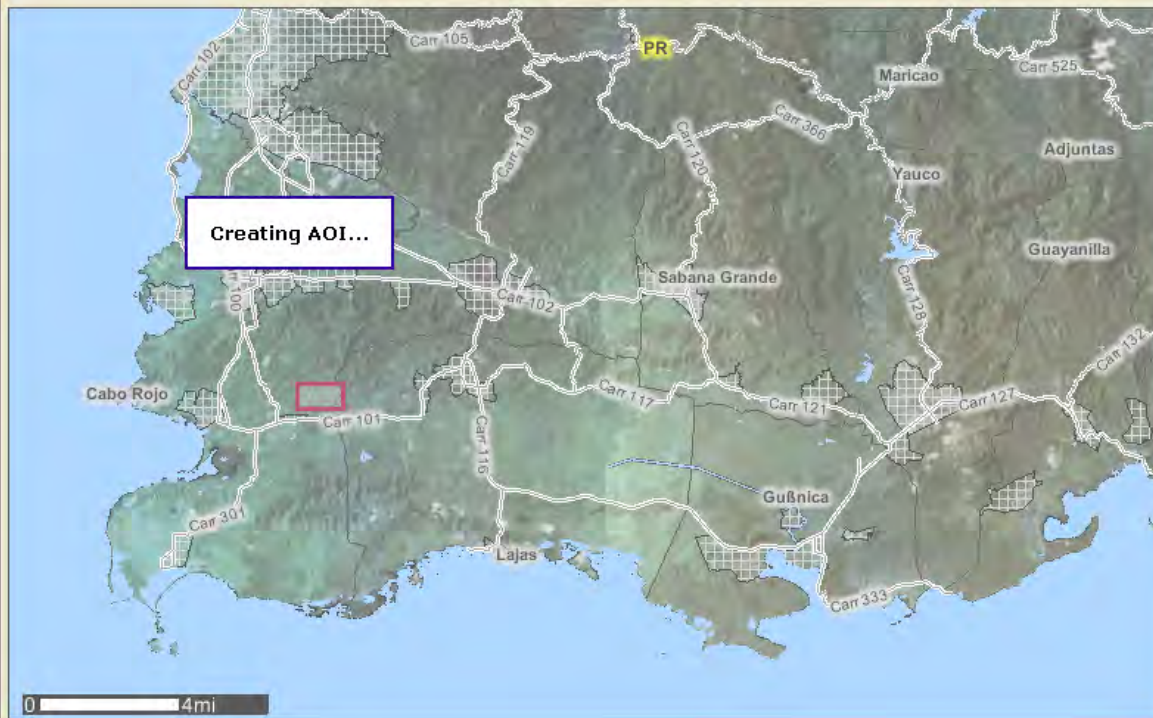
Map navigation icons

View Extent Contiguous U.S.

Scale

1:100,000 Scale

Creating AOI...



Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Search

Area of Interest Interactive Map

Area of Interest

AOI Properties

AOI Information

Name

Map Unit Symbols

- Use Soil Survey Area Map Unit Symbols
- Use National Map Unit Symbols

Area (acres)

769.5

Soil Data Available from Web Soil Survey

San German Area, Southwestern Puerto Rico (PR787)

Spatial Data Version 1, Dec 17, 2007

Tabular Data Version 2, Dec 3, 2008

Clear AOI

Import AOI

Export AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI

View

El área de interés (AOI) se muestra en el recuadro.





Usando el polígono, trace su área de interés. Haga doble "click" en el último punto para cerrar la colindancia.

Area of Interest (AOI) Soil Map Soil Data Ex

Search

Area of Interest

Open All Close All

AOI Properties

Clear AOI

AOI Information

Name

Map Unit Symbols

- Use Soil Survey Area Map Unit Symbols
- Use National Map Unit Symbols

Area (acres) 769.5

Soil Data Available from Web Soil Survey

San German Area, Southwestern Puerto Rico (PR787)

Spatial Data Version 1, Dec 17, 2007

Tabular Data Version 2, Dec 3, 2008

Clear AOI

Import AOI

Export AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI View

Area of Interest Interactive Map

Legend

View Extent Contiguous U.S.

Scale (not to scale)

Creating AOI...



Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Search

Area of Interest

Open All Close All

AOI Properties

Clear AOI

AOI Information

Name

Map Unit Symbols

- Use Soil Survey Area Map Unit Symbols
- Use National Map Unit Symbols

Area (acres)

123.0

Soil Data Available from Web Soil Survey

San German Area, Southwestern Puerto Rico (PR787)

Spatial Data Version 1, Dec 17, 2007

Tabular Data Version 2, Dec 3, 2008

Clear AOI

Import AOI

Export AOI

Quick Navigation

Address

State and County

Soil Survey Area

Set AOI View

Su área de interés (AOI) se muestra en la zona sombreada



Ahora, vaya a la pantalla "Soil Map"

Puede imprimir el mapa de suelo

File Edit View Favorites http://websoil...ey.aspx

Web Soil Survey

USDA United States Department of Agriculture Natural Resources Conservation Service

Contact Us Download Soils Data Archived Soil Surveys Soil Survey Status Glossary Preferences Link Logout Help

Area of Interest (AOI) **Soil Map** Soil Data Explorer Shopping Cart (Free)

Printable Version Add to Shopping Cart

**Search**

**Map Unit Legend**

**San German Area, Southwestern Puerto Rico (PR787)**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Cartagena clay, 0 to 2 percent slopes	3.9	3.2%
DsD	Descalabrado clay, 12 to 20 percent slopes	6.2	5.1%
DsF	Descalabrado clay, 20 to 60 percent slopes	5.7	4.6%
FrA	Fraternidad clay, 0 to 2 percent slopes	21.4	17.4%
FrB	Fraternidad clay, 2 to 5 percent slopes	13.4	10.9%
JaB	Jacana clay, 0 to 5 percent slopes	6.7	5.4%
JaC	Jacana clay, 5 to 12 percent slopes	18.8	15.3%
ScA	San Anton clay loam, 0 to 2 percent slopes, occasionally flooded	12.2	9.9%
SdF	San German cobbly clay loam, 20 to 60 percent slopes	34.6	28.2%
<b>Totals for Area of Interest</b>		<b>123.0</b>	<b>100.0%</b>

**Soil Map**

Scale (not to scale)

0 828ft

**Warning: Soil Map may not be valid at this scale.**

You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The design of map units and the level of detail shown in the resulting soil map are dependent on that map scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and

Area of Interest (AOI)

Soil Map

Shopping Cart (Free)

Printable Version

Add to Shopping Cart

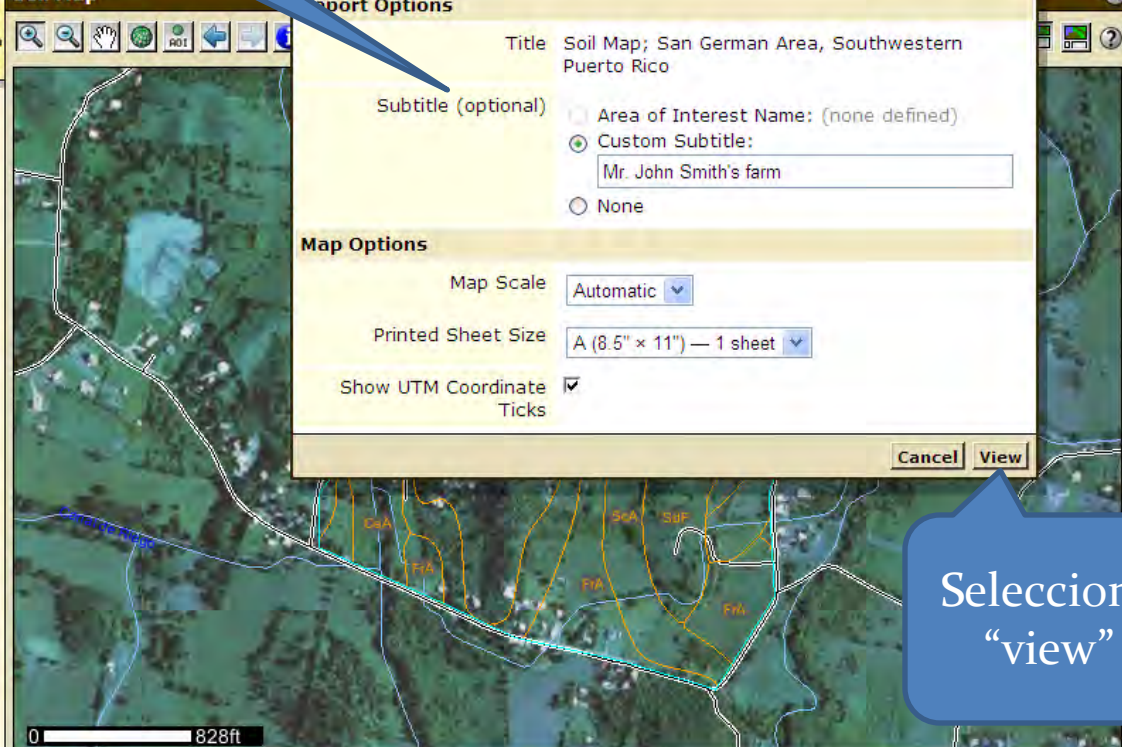
Search

Map Unit Legend

San German Area, Southwestern Puerto Rico (PR787)

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Soil Map



Puede darle un título a su informe.

Printable Version Options

Report Options

Title Soil Map; San German Area, Southwestern Puerto Rico

Subtitle (optional)

Area of Interest Name: (none defined)

Custom Subtitle:

Mr. John Smith's farm

None

Map Options

Map Scale Automatic

Printed Sheet Size A (8.5" x 11") — 1 sheet

Show UTM Coordinate Ticks

Cancel View

Selecciona "view"

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Soil Map—San German Area, Southwestern Puerto Rico  
(Mr. John Smith's farm)



Puede grabar o imprimir su mapa

Navigation and control icons: Print, Home, Previous, Next, Page 1 / 3, Zoom In (+), Zoom Out (-), and Refresh.

Add to Shopping Cart Options

Title Soil Map

Subtitle (optional)

Cancel OK

Puede darle un título

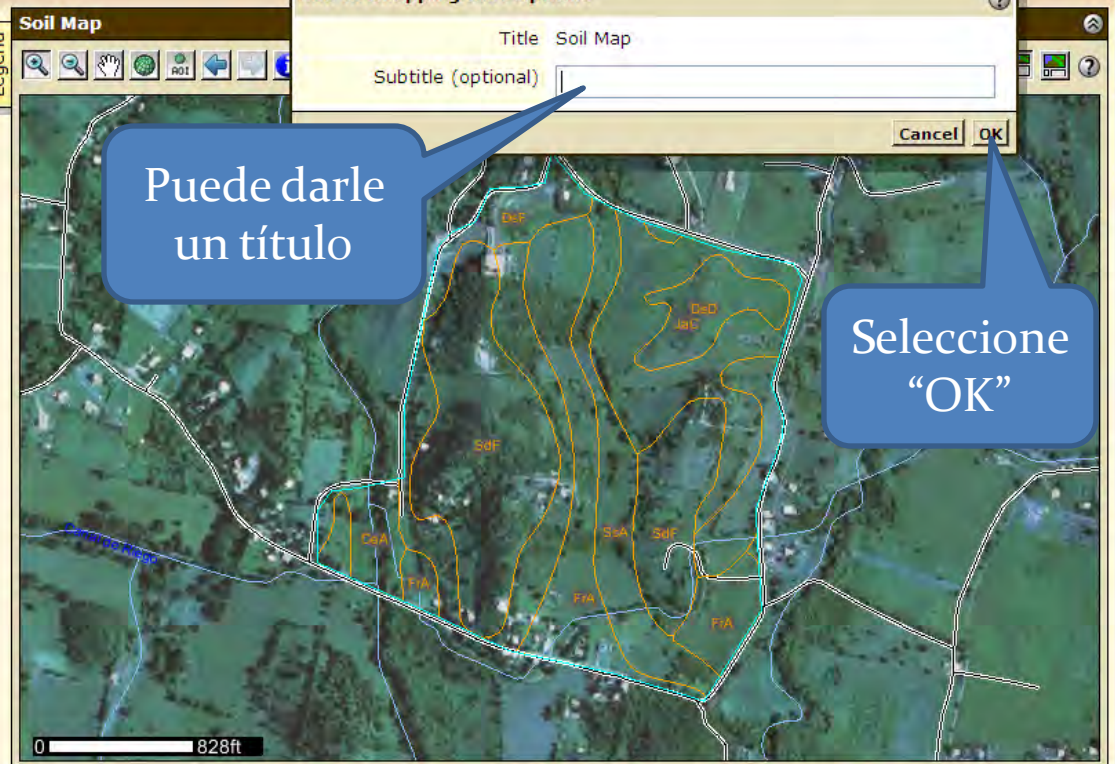
Seleccione "OK"

Search

Map Unit Legend

San German Area, Southwestern Puerto Rico (PR787)

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O puede agregar su mapa de suelo al "Shopping cart" y descargar un documento completo al final.

**Suitabilities and Limitations Ratings**

Open All Close All

**Building Site Development**

- Corrosion of Concrete
- Corrosion of Steel
- Dwellings With Basements
- Dwellings Without Basements
- Lawns, Landscaping, and Golf Fairways
- Local Roads and Streets
- Shallow Excavations
- Small Commercial Buildings

**Construction Materials**

- Gravel Source
- Roadfill Source
- Sand Source
- Source of Reclamation Material
- Topsoil Source

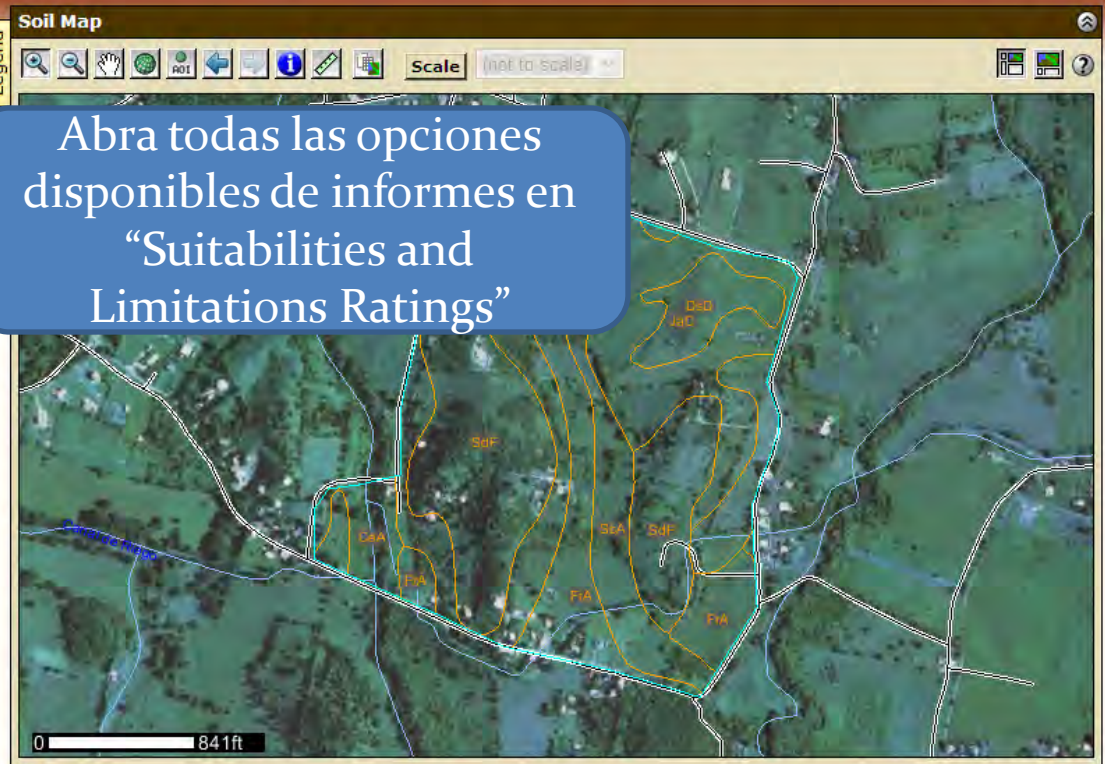
**Disaster Recovery Planning**

- Catastrophic Mortality, Large Animal Disposal, Pit
- Catastrophic Mortality, Large Animal Disposal, Trench
- Clay Liner Material Source
- Composting Facility - Subsurface
- Composting Facility - Surface
- Composting Medium and Final Cover
- Rubble and Debris Disposal, Large-Scale Event

**Land Classifications**

Luego vaya a la pantalla "Soil Data Explorer"

Abra todas las opciones disponibles de informes en "Suitabilities and Limitations Ratings"



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You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The

Recuerda que puede imprimir o agregar su mapa y tablas al "Shopping cart"

# Web Soil Survey - Windows Internet Explorer

File Edit View Favorites Tools Help  
http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx  
Web Soil Survey

View Soil Information By Use: All Uses [Printable Version](#) [Add to Shopping Cart](#)

Intro to Soils **Suitabilities and Limitations for Use** Soil Properties and Qualities Ecological Site Assessment Soil Reports

**Search**

**Suitabilities and Limitations Ratings**  
[Open All](#) [Close All](#)

**Building Site Development**

- Corrosion of Concrete
- Corrosion of Steel
- Dwellings With Basements
- Dwellings Without Basements
- Lawns, Landscaping, and Golf Fairways
- Local Roads and Streets

**Shallow Excavations**  
[View Description](#) [View Rating](#)

**View Options**

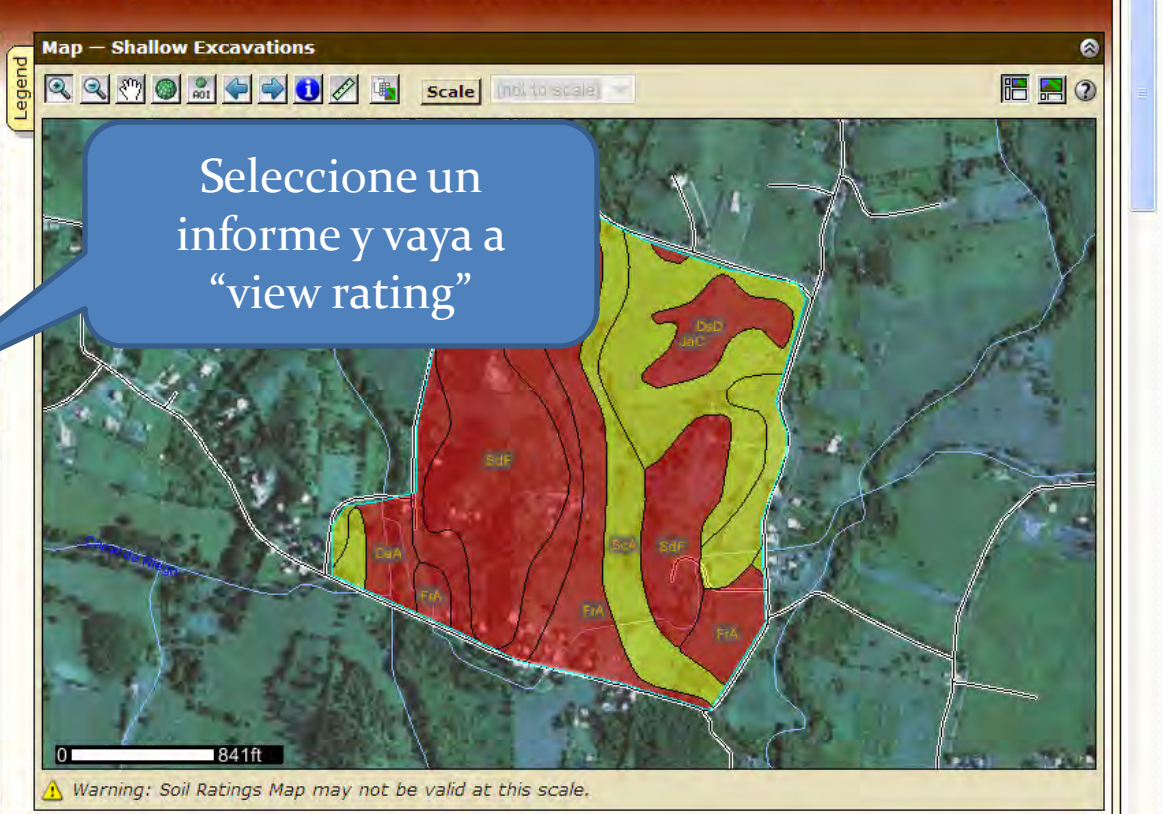
- Map
- Table
- Component Breakdown and Rating Reasons
  - Numeric Values
- Description of Rating
- Rating Options 
  - Detailed Description

**Advanced Options**  
[View Description](#) [View Rating](#)

Small Commercial Buildings

**Construction Materials**

- Gravel Source
- Roadfill Source
- Sand Source



Seleccione un informe y vaya a "view rating"

**Tables - Shallow Excavations - Summary By Map Unit**

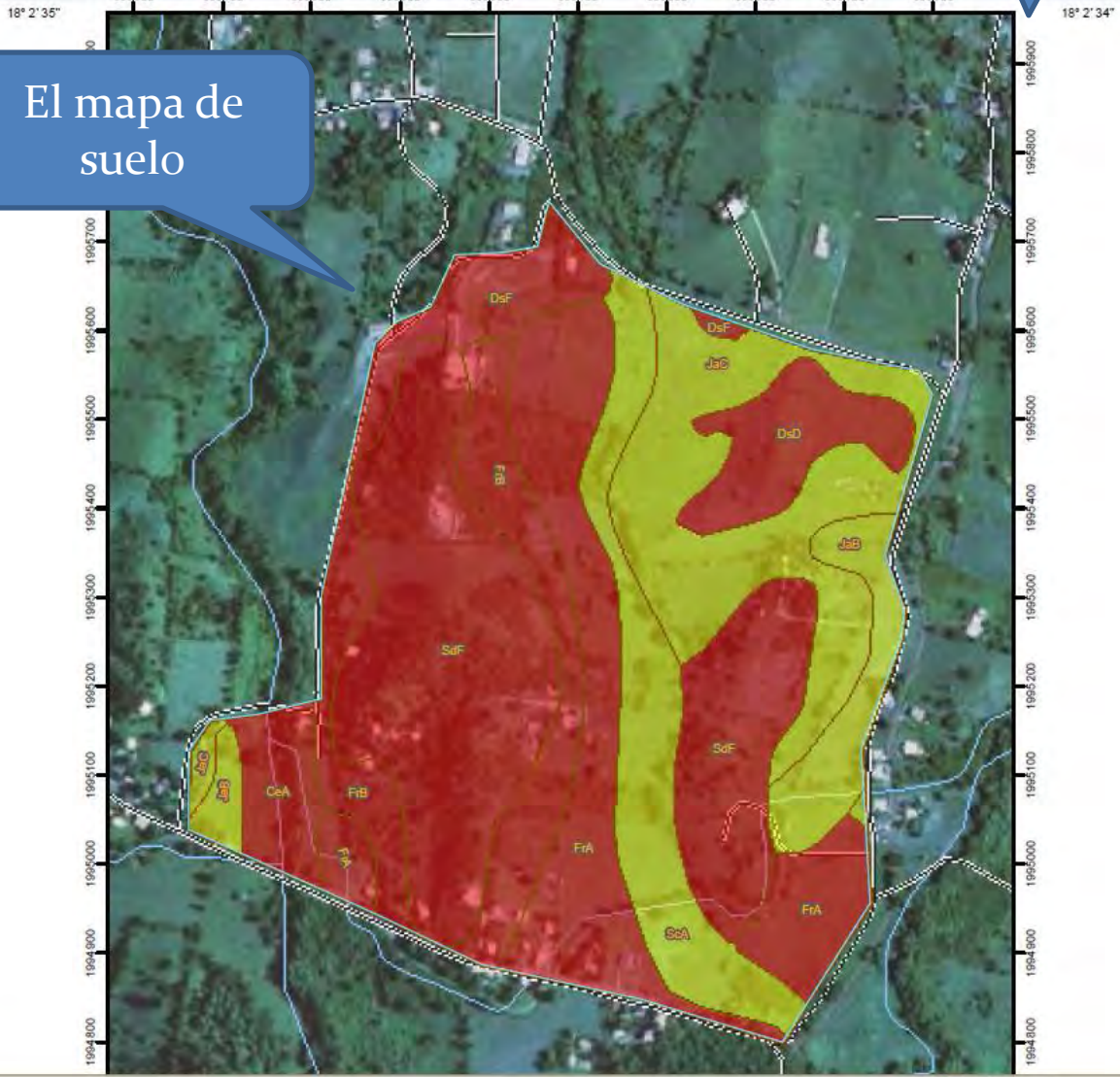
**Summary by Map Unit - San German Area, Southwestern Puerto Rico (PR787)**

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CeA	Cartagena clay, 0 to 2 percent slopes	Very limited	Cartagena (85%)	Cutbanks cave (1.00)	3.9	3.2%



Este es el informe que obtendrá

El mapa de suelo



La leyenda del mapa

Shallow Excavations-San Germa  
(Mr. John S

### MAP LEGEND

- Area of Interest (AOI)**
  - Area of Interest (AOI)
- Soils**
  - Soil Map Units
- Soil Ratings**
  - Very limited
  - Somewhat limited
  - Not limited
  - Not rated or not available
- Political Features**
  - Cities
- Water Features**
  - Streams and Canals
- Transportation**
  - Rails
  - Interstate Highways
  - US Routes
  - Major Roads
  - Local Roads

### MAP INFORMATION

Map Scale: 1:6,540 if printed on A size (8.5" x 11") sheet.  
The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.  
Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 19N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San German Area, Southwestern Puerto Rico  
Survey Area Data: Version 3, Dec 8, 2008

Date(s) aerial images were photographed: 2004

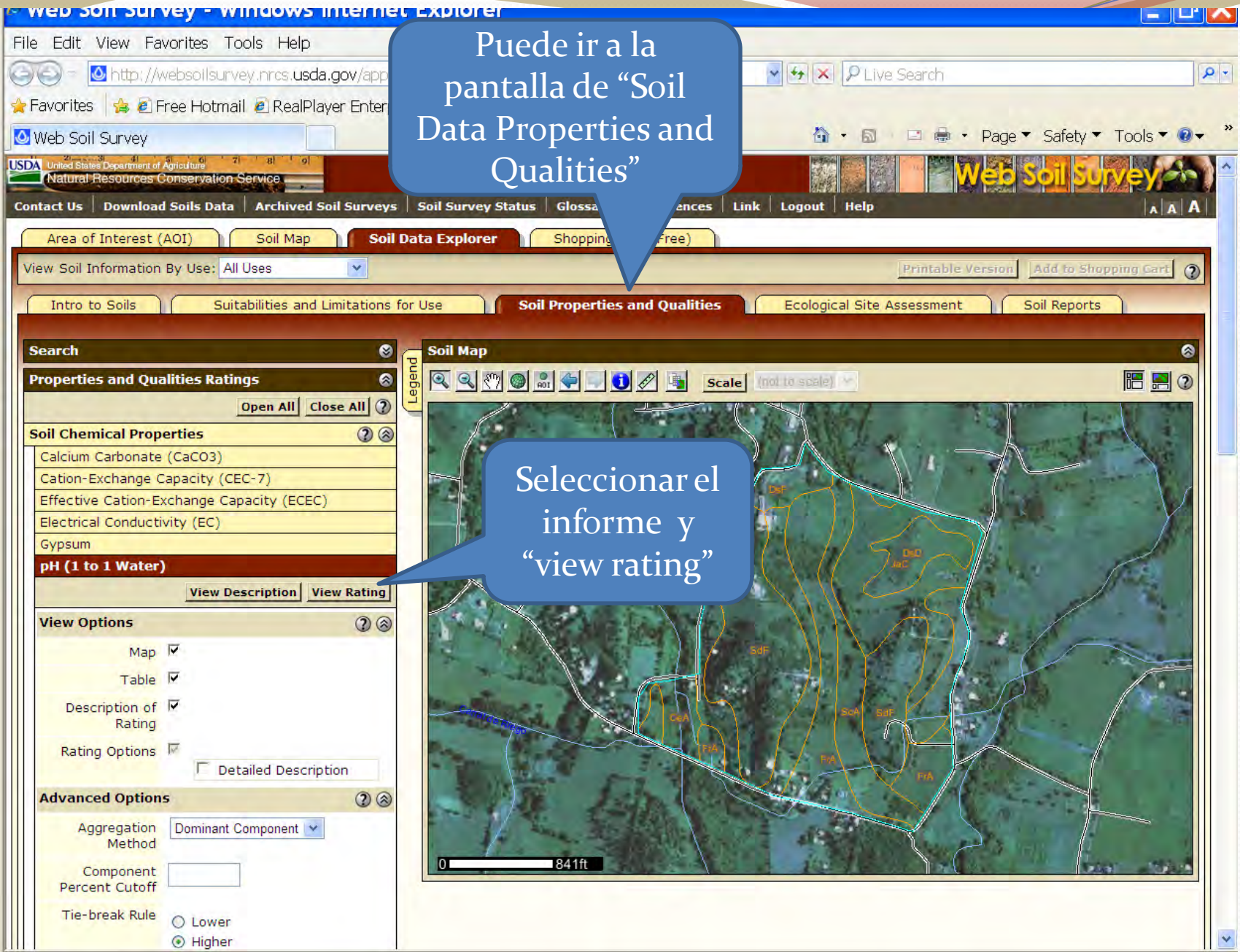
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Tabla de interpretaciones

Shallow Excavations—San German Area, Southwestern Puerto Rico

### Shallow Excavations

Shallow Excavations— Summary by Map Unit — San German Area, Southwestern Puerto Rico (PR787)						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CeA	Cartagena clay, 0 to 2 percent slopes	Very limited	Cartagena (85%)	Cutbanks cave (1.00)	3.9	3.2%
				Too clayey (1.00)		
			Aguirre (15%)	Ponding (1.00)		
				Too clayey (1.00)		
				Cutbanks cave (1.00)		
DsD	Descalabrado clay, 12 to 20 percent slopes	Very limited	Descalabrado (90%)	Depth to hard bedrock (1.00)	6.2	5.1%
				Depth to soft bedrock (1.00)		
				Slope (1.00)		
DsF	Descalabrado clay, 20 to 60 percent slopes	Very limited	Descalabrado (90%)	Depth to hard bedrock (1.00)	5.7	4.6%
				Depth to soft bedrock (1.00)		
				Slope (1.00)		
			San German (10%)	Depth to hard bedrock (1.00)		
				Slope (1.00)		
				Cutbanks cave (0.10)		
FrA	Fraternidad clay, 0 to 2 percent slopes	Very limited	Fraternidad (90%)	Cutbanks cave (1.00)	21.4	17.4%
				Too clayey (1.00)		
			Cartagena (5%)	Cutbanks cave (1.00)		



Puede ir a la pantalla de "Soil Data Properties and Qualities"

Seleccionar el informe y "view rating"

Search

Properties and Qualities Ratings

Open All | Close All

Soil Chemical Properties

- Calcium Carbonate (CaCO<sub>3</sub>)
- Cation-Exchange Capacity (CEC-7)
- Effective Cation-Exchange Capacity (ECEC)
- Electrical Conductivity (EC)
- Gypsum

**pH (1 to 1 Water)**

View Description | View Rating

View Options

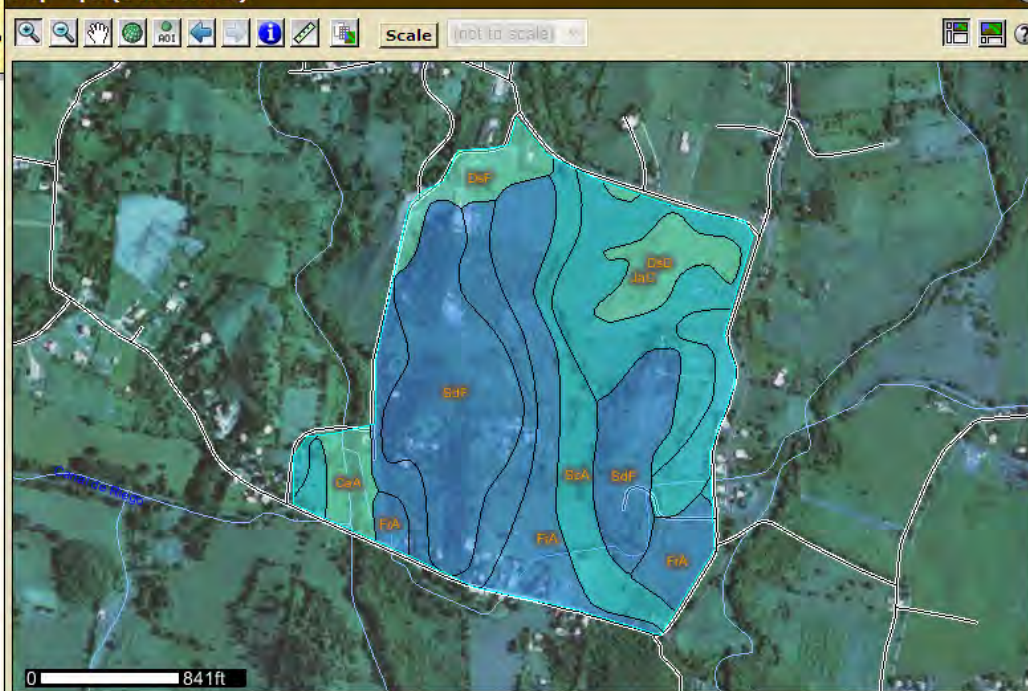
- Map
- Table
- Description of Rating
- Rating Options

Detailed Description

Advanced Options

- Aggregation Method: Dominant Component
- Component Percent Cutoff:
- Tie-break Rule:
  - Lower
  - Higher

Map - pH (1 to 1 Water)



**Warning: Soil Ratings Map may not be valid at this scale.**  
 You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The

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Search

Soil Reports

Open All Close All

AOI Inventory

- Component Legend
- Map Unit Description
- Map Unit Description (Brief)

**Map Unit Description (Brief, Generated)**

View Description View Soil Report

This report has no options.

View Description View Soil Report

- Selected Soil Interpretations
- Selected Survey Area Interpretation Descriptions
- Survey Area Data Summary

Building Site Development

- Dwellings and Small Commercial Buildings
- Roads and Streets, Shallow Excavations, and Lawns and Landscaping

Construction Materials

- Source of Reclamation Material, Roadfill, and Topsoil
- Source of Sand and Gravel

Disaster Recovery Planning

- AWM - Large Animal Disposal, Pit

Land Classifications

- Conservation Tree and Shrub Suitability Groups
- Hydric Soils

Soil Map

Legend

Map navigation tools: pan, zoom, AOI, scale (not to scale), print, help.



Vaya a "Soil Reports"

Seleccione el informe

Search

Soil Reports

Open All Close All

AOI Inventory

- Component Legend
- Map Unit Description
- Map Unit Description (Brief)
- Map Unit Description (Brief, Generated)**

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This report has no options.

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- Hydric Soils

Soil Map



Report - Map Unit Description (Brief, Generated)

Minor map unit components are excluded from this report.

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Al concluir, vaya a su "Shopping cart"

**Search**

**Report Properties**

**Title**

Title Custom Soil Resource Report for San German Area, Southwestern Puerto Rico

Subtitle  
 Area of Interest Name: (none defined)  
 Custom Subtitle:  
Mr. John Smith's farm  
 None

**Size**

Total Size 1,751 KB (1.7 MB)

**Map Options**

Map Scale Automatic

Printed Sheet Size A (8.5" x 11") — 1 sheet

Show UTM Coordinate Ticks

**Table of Contents**

<input checked="" type="checkbox"/>	Custom Soil Resource Report for San German Area, Southwestern Puerto Rico: Mr. John Smith's farm	1,751 KB
<input checked="" type="checkbox"/>	Cover	518 KB
<input checked="" type="checkbox"/>	Preface	3 KB

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**Delivery Options**

Select a Delivery Method

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Este es el informe creado.

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for San German Area, Southwestern Puerto Rico

Mr. John Smith's farm



Incluye una introducción

- Bookmarks
- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)

## Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://soils.usda.gov/sqi/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nracs>) or your NRCS State Soil Scientist ([http://soils.usda.gov/contact/state\\_offices/](http://soils.usda.gov/contact/state_offices/)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies. State agencies including the Agricultural

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
- Suitabilities and Limitations for Use
  - Building Site Development
    - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)

Incluye tabla de contenido

# Contents

<b>Preface</b> .....	2
<b>How Soil Surveys Are Made</b> .....	5
<b>Soil Map</b> .....	7
Soil Map.....	8
Legend.....	9
Map Unit Legend.....	10
Map Unit Descriptions.....	10
San German Area, Southwestern Puerto Rico.....	12
CeA—Cartagena clay, 0 to 2 percent slopes.....	12
DsD—Descalabrado clay, 12 to 20 percent slopes.....	13
DsF—Descalabrado clay, 20 to 60 percent slopes.....	14
FrA—Fraternidad clay, 0 to 2 percent slopes.....	15
FrB—Fraternidad clay, 2 to 5 percent slopes.....	16
JaB—Jacana clay, 0 to 5 percent slopes.....	17
JaC—Jacana clay, 5 to 12 percent slopes.....	19
ScA—San Anton clay loam, 0 to 2 percent slopes, occasionally flooded.....	20
SdF—San German cobbly clay loam, 20 to 60 percent slopes.....	21
<b>Soil Information for All Uses</b> .....	23
Suitabilities and Limitations for Use.....	23
Building Site Development.....	23
Shallow Excavations.....	23
Soil Properties and Qualities.....	30
Soil Chemical Properties.....	30
pH (1 to 1 Water).....	30
Soil Reports.....	34
AOI Inventory.....	34
Map Unit Description (Brief, Generated).....	34
Map Unit Description (Brief, Generated).....	39
<b>References</b> .....	45

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)

Explica como se realizan los estudios de suelos

## How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

- Bookmarks
  - Cover
  - Preface
  - Contents
  - How Soil Surveys Are Made
  - Soil Map
    - Soil Map
    - Legend
    - Map Unit Legend
  - Map Unit Descriptions
    - San German Area, Southwestern Puerto Rico
  - Soil Information for All Uses
    - Suitabilities and Limitations for Use
      - Building Site Development
        - Shallow Excavations
    - Soil Properties and Qualities
      - Soil Chemical Properties
        - pH (1 to 1 Water)
    - Soil Reports
      - AOI Inventory
        - Map Unit Description (Brief, Generated)

Incluye el mapa de suelo

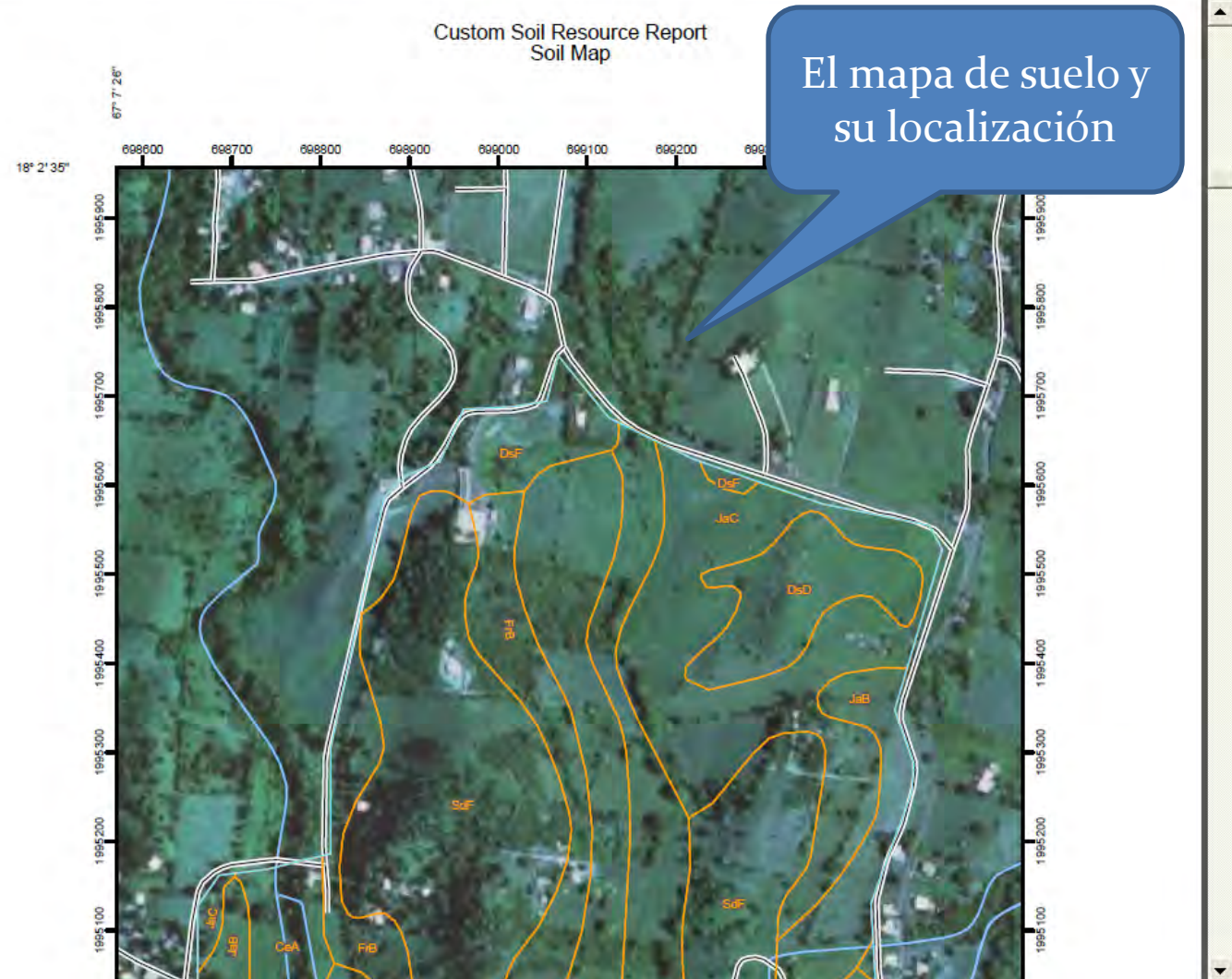
## Soil Map

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The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Bookmarks

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)



El mapa de suelo y su localización

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
  - Map Unit Descriptions
    - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

La leyenda del mapa

**MAP LEGEND**

Area of Interest (AOI)	Very Stony Spot
Soils	Wet Spot
Soil Map Units	Other
<b>Special Point Features</b>	<b>Special Line Features</b>
Blowout	Gully
Borrow Pit	Short Steep Slope
Clay Spot	Other
Closed Depression	<b>Political Features</b>
Gravel Pit	Cities
Gravelly Spot	<b>Water Features</b>
Landfill	Streams and Canals
Lava Flow	<b>Transportation</b>
Marsh or swamp	Rails
Mine or Quarry	Interstate Highways
Miscellaneous Water	US Routes
Perennial Water	Major Roads
Rock Outcrop	Local Roads
Saline Spot	
Sandy Spot	
Severely Eroded Spot	
Sinkhole	
Slide or Slip	
Sodic Spot	
Spoil Area	
Stony Spot	

**MAP INFORMATION**

Map Scale: 1:8,540 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.

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Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: UTM Zone 19N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San German Area, Southwestern Puerto Rico  
 Survey Area Data: Version 3, Dec 8, 2008

Date(s) aerial images were photographed: 2004

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

- Bookmarks
- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
  - Map Unit Descriptions
    - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

La leyenda de unidades cartográficas en el mapa y su descripción

### Map Unit Legend

San German Area, Southwestern Puerto Rico (PR787)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Cartagena clay, 0 to 2 percent slopes	3.9	3.2%
DsD	Descalabrado clay, 12 to 20 percent slopes	6.2	5.1%
DsF	Descalabrado clay, 20 to 60 percent slopes	5.7	4.6%
FrA	Fratemidad clay, 0 to 2 percent slopes	21.4	17.4%
FrB	Fratemidad clay, 2 to 5 percent slopes	13.4	10.9%
JaB	Jacana clay, 0 to 5 percent slopes	6.7	5.4%
JaC	Jacana clay, 5 to 12 percent slopes	18.8	15.3%
ScA	San Anton clay loam, 0 to 2 percent slopes, occasionally flooded	12.2	9.9%
SdF	San German cobbly clay loam, 20 to 60 percent slopes	34.6	28.2%
<b>Totals for Area of Interest</b>		<b>123.0</b>	<b>100.0%</b>

### Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally



- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit
  - Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
- Suitabilities and Limitations for Use
  - Building Site Development
    - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)

Custom Soil Resource R

## San German Area, Southwestern Puerto Rico

### CeA—Cartagena clay, 0 to 2 percent slopes

#### Map Unit Setting

*Elevation:* 10 to 160 feet  
*Mean annual precipitation:* 25 to 66 inches  
*Mean annual air temperature:* 66 to 89 degrees F  
*Frost-free period:* 365 days

#### Map Unit Composition

*Cartagena and similar soils:* 85 percent  
*Minor components:* 15 percent

#### Description of Cartagena

##### Setting

*Landform:* Fan skirts  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Linear, concave  
*Across-slope shape:* Linear  
*Parent material:* Alluvium derived from igneous and sedimentary rock and/or marine deposits derived from igneous and sedimentary rock

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Somewhat poorly drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low (0.01 to 0.14 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 25 percent  
*Maximum salinity:* Slightly saline to moderately saline (8.0 to 16.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 20.0  
*Available water capacity:* Moderate (about 7.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2s  
*Land capability (nonirrigated):* 3c

##### Typical profile

*0 to 7 inches:* Clay  
*7 to 15 inches:* Clay  
*15 to 46 inches:* Clay

Las descripciones de las unidades cartográficas en el mapa.

- Bookmarks
- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

Los informes o secciones seleccionadas en el estudio de suelo creado.

## Soil Information for All Uses

### Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

### Building Site Development

Building site development interpretations are designed to be used as tools for evaluating soil suitability and identifying soil limitations for various construction purposes. As part of the interpretation process, the rating applies to each soil in its described condition and does not consider present land use. Example interpretations can include corrosion of concrete and steel, shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns and landscaping.

### Shallow Excavations

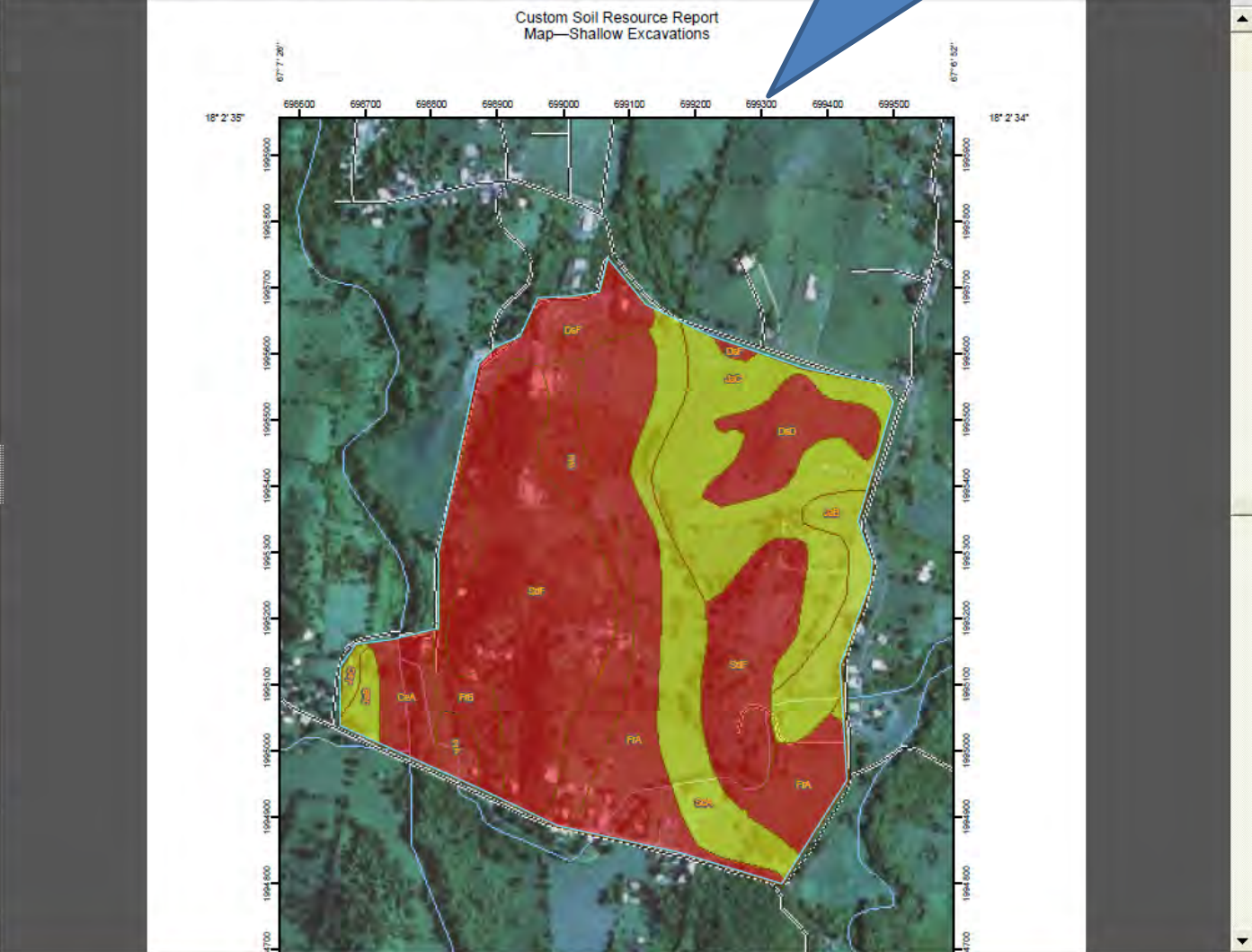
Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning

Los mapas asociados

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)



**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

Custom Soil



# La leyenda del mapa

## MAP LEGEND

- Area of Interest (AOI)**
  - Area of Interest (AOI)
- Soils**
  - Soil Map Units
- Soil Ratings**
  - Very limited
  - Somewhat limited
  - Not limited
  - Not rated or not available
- Political Features**
  - Cities
- Water Features**
  - Streams and Canals
- Transportation**
  - Rails
  - Interstate Highways
  - US Routes
  - Major Roads
  - Local Roads

## MAP INFORMATION

Map Scale: 1:6,540 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San German Area, Southwestern Puerto Rico  
 Survey Area Data: Version 3, Dec 8, 2008

Date(s) aerial images were photographed: 2004

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
    - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

La tabla interpretativa

Custom Soil Resource Report

**Tables—Shallow Excavations**

Shallow Excavations— Summary by Map Unit — San German Area, Southwestern Puerto Rico (PR767)						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CeA	Cartagena clay, 0 to 2 percent slopes	Very limited	Cartagena (85%)	Cutbanks cave (1.00)	3.9	3.2%
				Too clayey (1.00)		
			Aguirre (15%)	Ponding (1.00)		
				Too clayey (1.00)		
DsD	Descalabrado clay, 12 to 20 percent slopes	Very limited	Descalabrado (90%)	Depth to hard bedrock (1.00)	6.2	5.1%
				Depth to soft bedrock (1.00)		
				Slope (1.00)		
DsF	Descalabrado clay, 20 to 60 percent slopes	Very limited	Descalabrado (90%)	Depth to hard bedrock (1.00)	5.7	4.6%
				Depth to soft bedrock (1.00)		
				Slope (1.00)		
			San German (10%)	Depth to hard bedrock (1.00)		
				Slope (1.00)		
				Cutbanks cave (0.10)		
FrA	Fratemidad clay, 0 to 2 percent slopes	Very limited	Fratemidad (90%)	Cutbanks cave (1.00)	21.4	17.4%
				Too clayey (1.00)		
			Cartagena (5%)	Cutbanks cave (1.00)		
				Too clayey (1.00)		
				Ponding (1.00)		
			Santa Isabel (5%)	Cutbanks cave (1.00)		
				Too clayey (0.83)		
				Depth to saturated zone (0.05)		

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Condensed)

### Custom Soil Resource Report

## Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

## Soil Chemical Properties

Soil Chemical Properties are measured or inferred from direct observations in the field or laboratory. Examples of soil chemical properties include pH, cation exchange capacity, calcium carbonate, gypsum, and electrical conductivity.

### pH (1 to 1 Water)

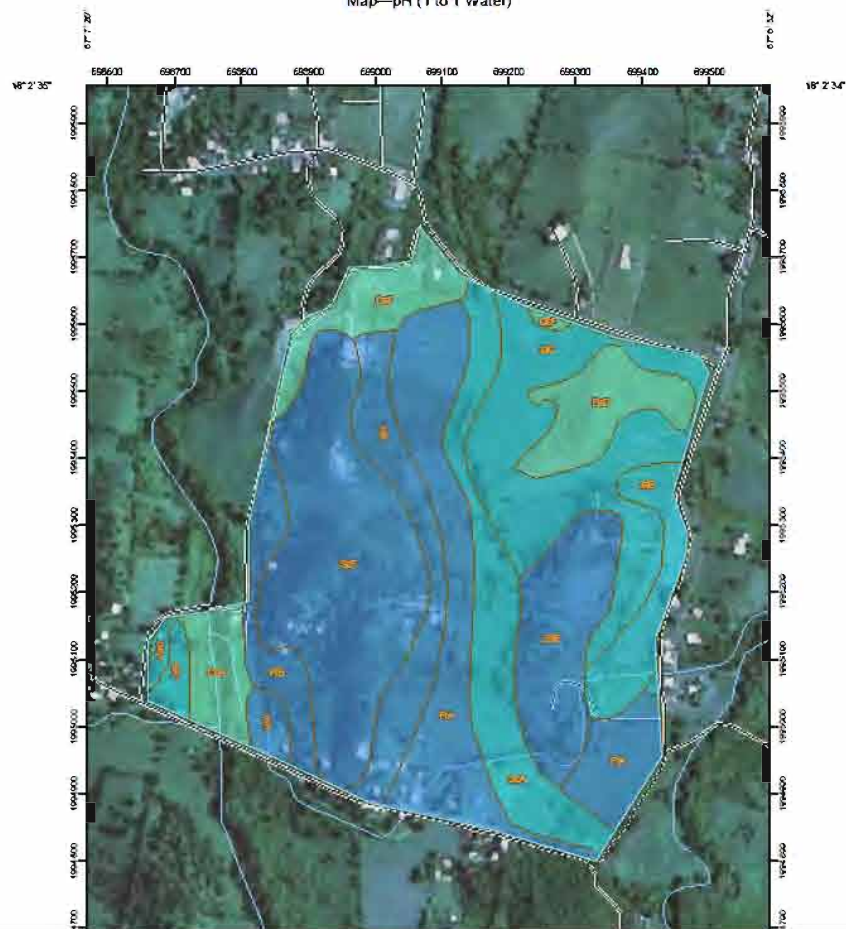
Soil reaction is a measure of acidity or alkalinity. It is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion. In general, soils that are either highly alkaline or highly acid are likely to be very corrosive to steel. The most common soil laboratory measurement of pH is the 1:1 water method. A crushed soil sample is mixed with an equal amount of water, and a measurement is made of the suspension.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Bookmarks

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
  - Map Unit Descriptions
    - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

Custom Soil Resource Report  
Map—pH (1 to 1 Water)



**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
  - Map Unit Descriptions
    - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
- Suitabilities and Limitations for Use
  - Building Site Development
    - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)

### Custom Soil Resource Report

#### MAP LEGEND

- |                                    |                           |
|------------------------------------|---------------------------|
| <b>Area of Interest (AOI)</b>      | <b>Political Features</b> |
| Area of Interest (AOI)             | Cities                    |
| <b>Soils</b>                       | <b>Water Features</b>     |
| Soil Map Units                     | Streams and Canals        |
| <b>Soil Ratings</b>                | <b>Transportation</b>     |
| Ultra acid (pH < 3.5)              | Rails                     |
| Extremely acid (pH 3.5 - 4.4)      | Interstate Highways       |
| Very strongly acid (pH 4.5 - 5.0)  | US Routes                 |
| Strongly acid (pH 5.1 - 6.0)       | Major Roads               |
| Moderately acid (pH 6.0 - 6.5)     | Local Roads               |
| Slightly acid (pH 6.1 - 6.5)       |                           |
| Neutral (pH 6.6 - 7.3)             |                           |
| Slightly alkaline (pH 7.4 - 7.8)   |                           |
| Moderately alkaline (pH 7.9 - 8.4) |                           |
| Strongly alkaline (pH 8.5 - 9.0)   |                           |
| Very strongly alkaline (pH > 9.0)  |                           |
| Not rated or not available         |                           |

#### MAP INFORMATION

Map Scale: 1:8,540 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San German Area, Southwestern Puerto Rico  
Survey Area Date: Version 3, Dec 8, 2008

Date(s) aerial images were photographed: 2004

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



**Bookmarks**

- 📄 Cover
- 📄 Preface
- 📄 Contents
- 📄 How Soil Surveys Are Made
- 📄 Soil Map
  - 📄 Soil Map
  - 📄 Legend
  - 📄 Map Unit Legend
- 📄 Map Unit Descriptions
  - 📄 San German Area, Southwestern Puerto Rico
- 📄 Soil Information for All Uses
  - 📄 Suitabilities and Limitations for Use
    - 📄 Building Site Development
      - 📄 Shallow Excavations
  - 📄 Soil Properties and Qualities
    - 📄 Soil Chemical Properties
      - 📄 pH (1 to 1 Water)
  - 📄 Soil Reports
    - 📄 AOI Inventory
      - 📄 Map Unit Description (Brief, Generated)

Custom Soil Resource Report

**Table—pH (1 to 1 Water)**

**pH (1 to 1 Water)— Summary by Map Unit — San German Area, Southwestern Puerto Rico (PR787)**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeA	Cartagena clay, 0 to 2 percent slopes	6.7	3.6	2.2%
DsD	Descalabrado clay, 12 to 20 percent slopes	6.8	6.2	5.1%
DsF	Descalabrado clay, 20 to 60 percent slopes	6.8	5.7	4.6%
FrA	Fratemidao clay, 0 to 2 percent slopes	7.9	21.4	17.4%
FrB	Fratemidao clay, 2 to 5 percent slopes	7.9	13.4	10.6%
JaB	Jacana clay, 0 to 5 percent slopes	7.5	6.7	5.4%
JaC	Jacana clay, 5 to 12 percent slopes	7.5	18.8	15.3%
ScA	San Anton clay loam, 0 to 2 percent slopes, occasionally flooded	7.6	12.2	9.6%
SdF	San German cobbly clay loam, 20 to 60 percent slopes	8.0	34.6	28.2%
<b>Totals for Area of Interest</b>			<b>123.0</b>	<b>100.0%</b>

**Rating Options—pH (1 to 1 Water)**

*Aggregation Method:* Dominant Component  
*Component Percent Cutoff:* None Specified  
*Tie-break Rule:* Higher  
*Interpret Nulls as Zero:* No  
*Layer Options:* Surface Layer

Bookmarks

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

## Soil Reports

The Soil Reports section includes various formatted tabular and narrative reports (tables) containing data for each selected soil map unit and each component of each unit. No aggregation of data has occurred as is done in reports in the Soil Properties and Qualities and Suitabilities and Limitations sections

The reports contain soil interpretive information as well as basic soil properties and qualities. A description of each report (table) is included

## AOI Inventory

This folder contains a collection of tabular reports that present a variety of soil information. Included are various map unit description reports, special soil interpretation reports, and data summary reports.

## Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

**Bookmarks**

- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
  - Suitabilities and Limitations for Use
    - Building Site Development
      - Shallow Excavations
  - Soil Properties and Qualities
    - Soil Chemical Properties
      - pH (1 to 1 Water)
  - Soil Reports
    - AOI Inventory
      - Map Unit Description (Brief, Generated)

Custom Soil Resource Report

**Report—Map Unit Description (Brief, Generated)**

**San German Area, Southwestern Puerto Rico**

**Map Unit:** CeA—Cartagena clay, 0 to 2 percent slopes

**Component:** Cartagena (85%)

The Cartagena component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on fan skirts on basins. The parent material consists of alluvium derived from igneous and sedimentary rock and/or marine deposits derived from igneous and sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 12 percent. The soil has a moderately saline horizon within 30 inches of the soil surface. The soil has a moderately sodic horizon within 30 inches of the soil surface.

**Component:** Aguirre (15%)

Generated brief soil descriptions are created for major components. The Aguirre soil is a minor component.

**Map Unit:** DsD—Descalabrado clay, 12 to 20 percent slopes

**Component:** Descalabrado (90%)

The Descalabrado component makes up 90 percent of the map unit. Slopes are 12 to 20 percent. This component is on ridges on mountains, mountain slopes on mountains, ridges on hills, hillslopes on hills. The parent material consists of residuum and colluvium. Depth to a root restrictive layer, bedrock, paralithic, is 10 to 16 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the F271XZ011PR Calamovilla

- Bookmarks
- Cover
- Preface
- Contents
- How Soil Surveys Are Made
- Soil Map
  - Soil Map
  - Legend
  - Map Unit Legend
- Map Unit Descriptions
  - San German Area, Southwestern Puerto Rico
- Soil Information for All Uses
- Suitabilities and Limitations for Use
  - Building Site Development
    - Shallow Excavations
- Soil Properties and Qualities
  - Soil Chemical Properties
    - pH (1 to 1 Water)
- Soil Reports
  - AOI Inventory
    - Map Unit Description (Brief, Generated)

Las referencias utilizadas

## References

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Area of Interest (AOI)

Soil Map

Search

Area of Interest

Open All Close All

AOI Properties

Import AOI

Create AOI from Shapefile

Create AOI from Zipped Shapefile

Export AOI

Export AOI as Zipped Shapefile

Base filename John\_Smith\_Farm

Export AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit

Al finalizar, pueda exportar su área de interés (AOI) como "zipped shapefile" para uso futuro.



Area of Interest (AOI)

Soil Map

Puede descargar su  
"AOI zipped  
shapefile" exportado.

Search

Area of Interest

Open All Close All

AOI Properties

Import AOI

- Create AOI from Shapefile
- Create AOI from Zipped Shapefile

Export AOI

Export AOI as Zipped Shapefile

Base filename John\_Smith\_Farm

Information

Your exported AOI

Download your exported AOI from:

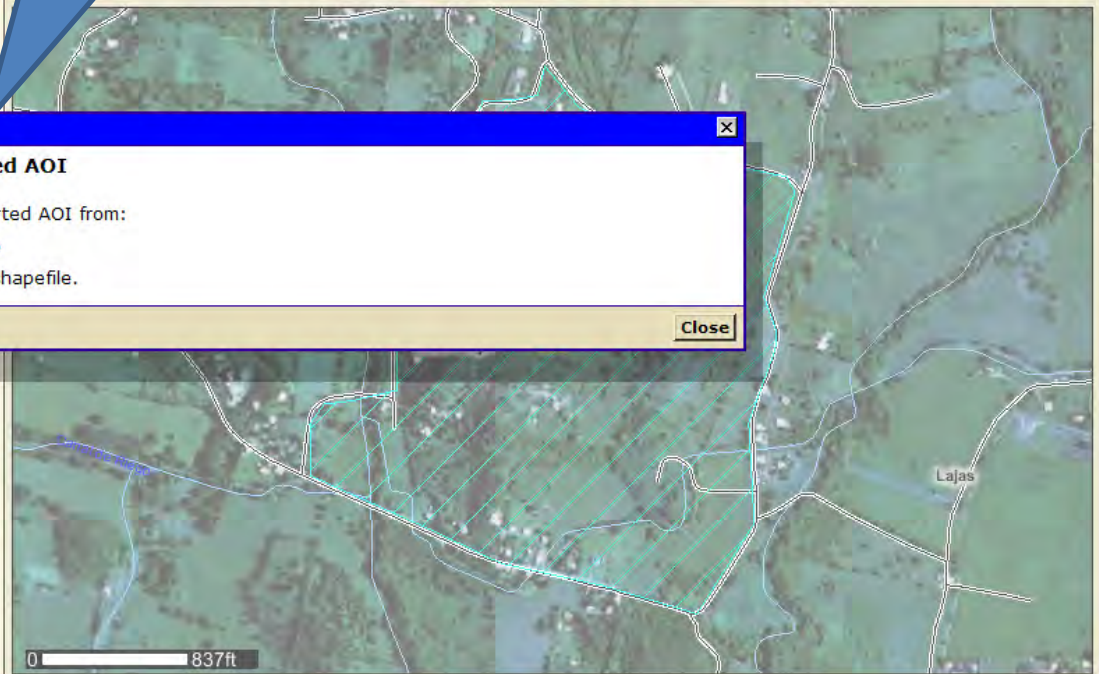
John\_Smith\_Farm.zip

This file is a zipped shapefile.

Close

Quick Navigation

- Address
- State and County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Section, Township, Range)
- Bureau of Land Management
- Department of Defense
- Forest Service
- National Park Service
- Hydrologic Unit



Area of Interest (AOI)

De necesitar información de otra área, puede borrar el AOI y comenzar de nuevo.

Search

Area of Interest

Open All Close All

AOI Properties

Clear AOI

AOI Information

Name John\_Smith\_Farm

Map Unit Symbols  
 Use Soil Survey Area Map Unit Symbols  
 Use National Map Unit Symbols

Area (acres) 123.0

Soil Data Available from Web Soil Survey

San German Area, Southwestern Puerto Rico (PR787)

Spatial Data Version 1, Dec 17, 2007

Tabular Data Version 2, Dec 3, 2008

Clear AOI

Import AOI

Export AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Area of Interest Interactive Map

Map navigation tools: pan, zoom, home, AOI, print, etc. View Extent: Contiguous U.S. Scale: (not to scale)



# IGUALDAD DE OPORTUNIDADES

**El Departamento de Agricultura de los Estados Unidos, USDA por sus siglas en Inglés, prohíbe el discrimen en todos sus programas y actividades por razones de raza, color, origen nacional, edad, incapacidad, y donde aplique, por razones de sexo, estado civil, estado familiar, estado parental, religión, orientación sexual, información genética, creencias políticas, reprimendas, o debido a que parte o la totalidad del ingreso de la persona se derive de cualquier programa público de asistencia. (No todas las prohibiciones aplican a todos los programas). Las personas con impedimentos que requieran métodos alternos de comunicación (Braille, impresos con letras de mayor tamaño, audio cintas, etc.) deberán referirse al Centro TARGET del USDA al (202) 720-2600 (voz y TDD).**

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