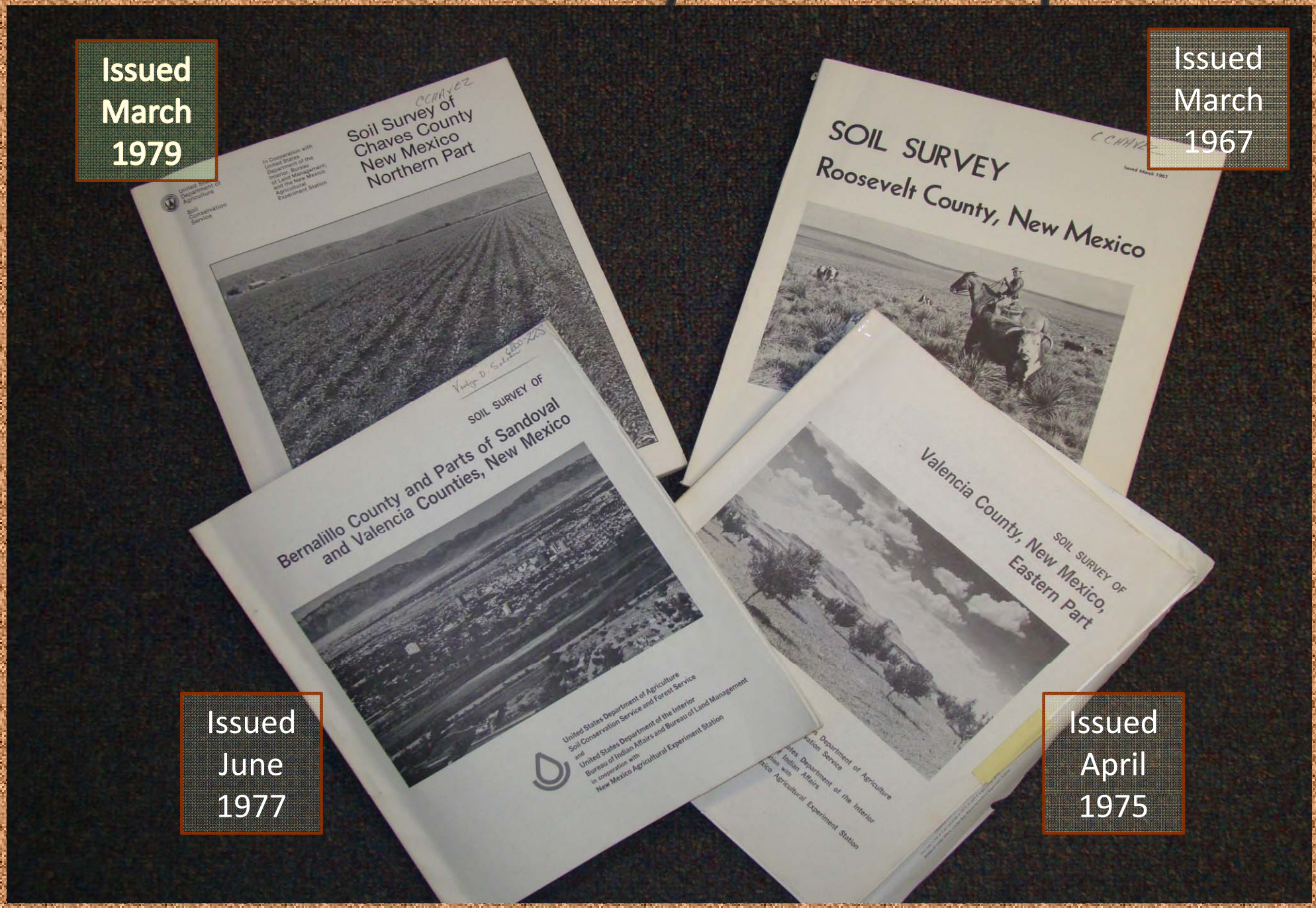
SOIL SURVEY MANUSCRIPT AND WEB SOIL SURVEY

By Clarence Chavez

Soil Survey Manuscripts

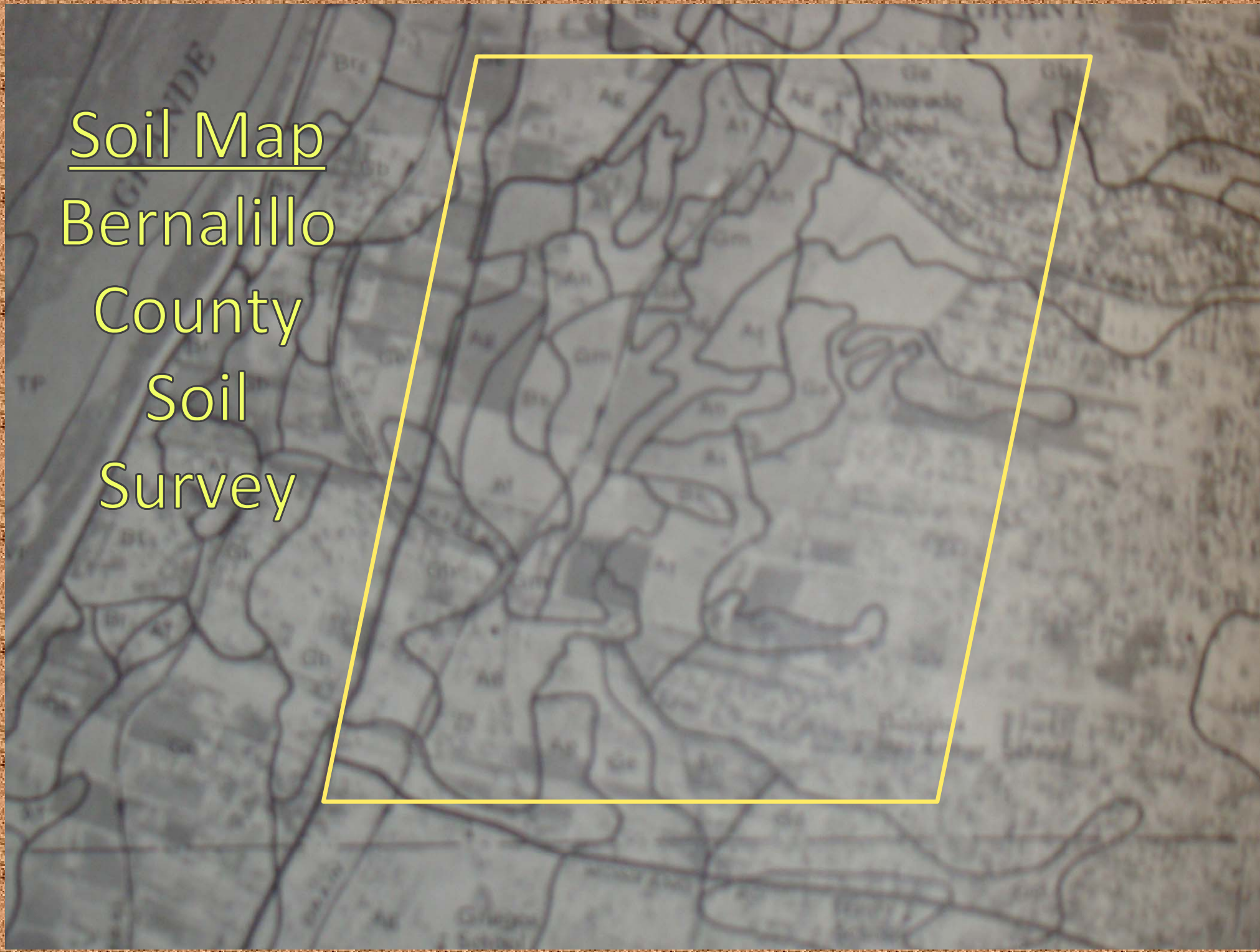


and estimated properties

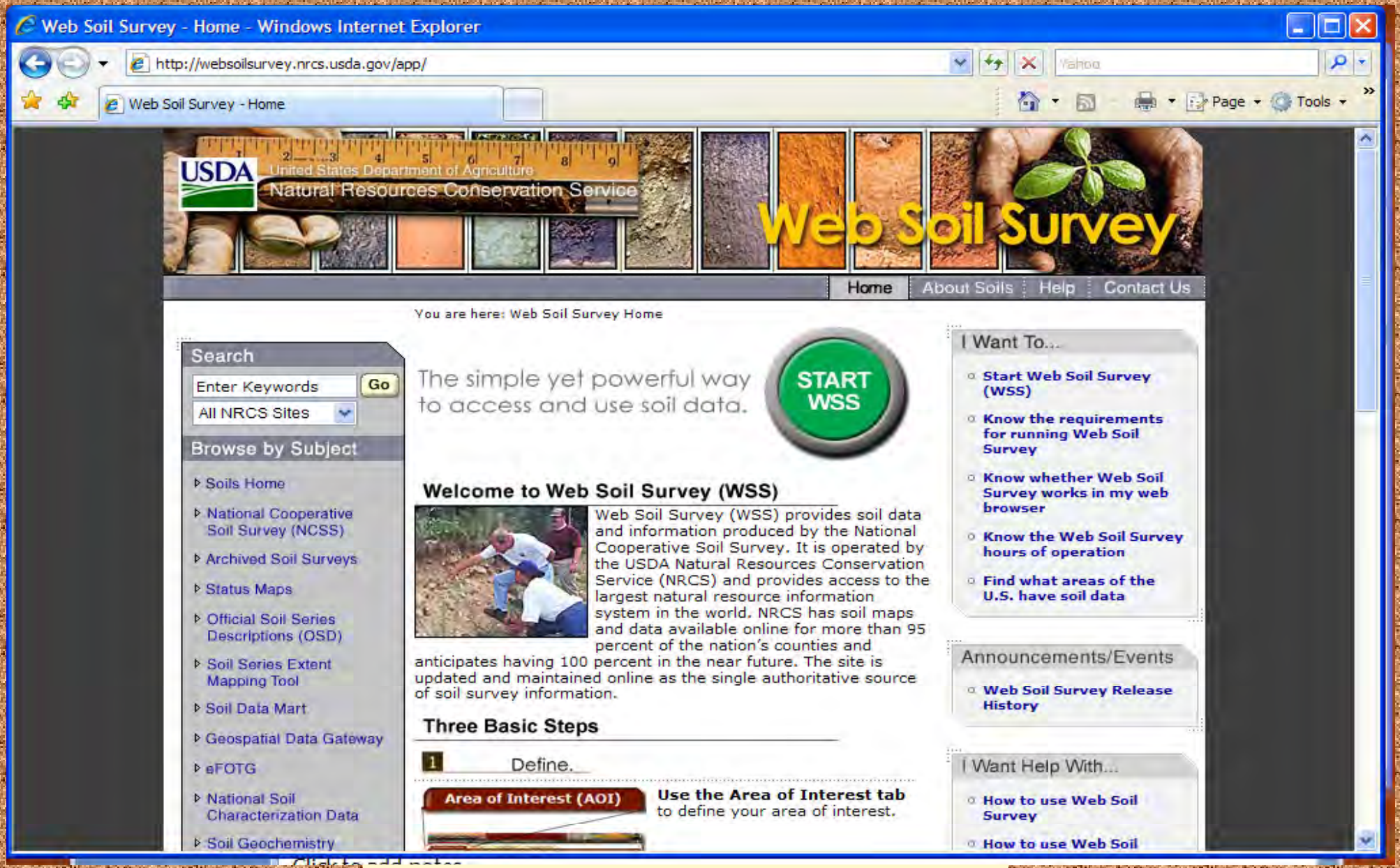
soils in such mapping units can have different properties and limitations, it is necessary to follow carefully the instructions for referring symbol > means more than; the symbol < means less than]

Percentage passing sieve—				Liquid limit	Plasticity index	Permeability	Available water capacity	Reaction	Salinity	Shrink-swell potential	Risk of corrosion to—	
No. 4 (4.7 mm)	No. 10 (2.0 mm)	No. 40 (0.42 mm)	No. 200 (0.074 mm)								Uncoated steel	Concrete
						Inches per hour	*Inches per inch of soil*	*pH*	*Millimhos per centimeter at 25° C*			
-------	100	85–100	60–90	20–35	5–15	0. 6–2. 0	0. 16–0. 20	7. 9–8. 4	1–4	Moderate---	Moderate---	Low.
-------	100	70–95	45–70	15–25	0–5	0. 6–2. 0	0. 13–0. 17	7. 9–8. 4	1–4	Low-------	Moderate---	Low.
-------	100	50–90	0–10	[2] NP	NP	6. 0–20. 0	0. 05–0. 07	7. 9–8. 4	0–1	Low-------	Low-------	Low.
-------	100	85–100	60–90	20–35	5–15	0. 2–2. 0	0. 13–0. 15	8. 5–9. 0	4–8	Moderate---	High-------	Low.
-------	100	90–95	40–60	NP	NP	0. 6–2. 0	0. 08–0. 10	8. 5–9. 0	4–8	Low-------	High-------	Low.
-------	100	50–90	0–10	NP	NP	6. 0–20. 0	0. 05–0. 07	7. 9–8. 4	1–4	Low-------	High-------	Low.
40–70	25–60	20–45	15–30	NP	NP	0. 6–2. 0	0. 05–0. 10	7. 9–8. 4	0–1	Low-------	High-------	Low.
90–100	90–100	85–95	30–50	15–25	0–10	0. 6–2. 0	0. 14–0. 18	7. 9–8. 4	2–4	Low-------	Moderate---	Low.
65–85	60–80	50–75	20–45	20–30	5–10	0. 6–2. 0	0. 07–0. 11	7. 9–8. 4	2–4	Low-------	Moderate---	Low.
-------	100	90–100	75–90	20–35	5–15	0. 2–0. 6	0. 19–0. 21	7. 9–8. 4	1–4	Low to moderate.	Moderate---	Low.
-------	100	90–100	75–85	25–40	10–20	0. 2–0. 6	0. 19–0. 21	7. 9–8. 4	1–4	Moderate---	Moderate---	Low.
-------	100	50–90	0–10	NP	NP	6. 0–20. 0	0. 05–0. 07	7. 9–8. 4	0–1	Low-------	Low-------	Low.
-------	100	90–100	75–85	25–35	10–15	0. 2–0. 6	0. 17–0. 19	7. 9–8. 4	1–4	Moderate---	High-------	Low.
-------	100	90–100	85–100	40–60	20–30	<0. 06	0. 12–0. 14	7. 9–8. 4	1–4	High-------	High-------	Low.
-------	100	50–90	5–20	NP	NP	6. 0–20. 0	0. 05–0. 07	7. 9–8. 4	1–4	Low-------	Low-------	Low.
-------	100	70–95	5–20	NP	NP	6. 0–20. 0	0. 07–0. 09	7. 4–8. 4	0–1	Low-------	Low-------	Low.

Soils Report – chem.

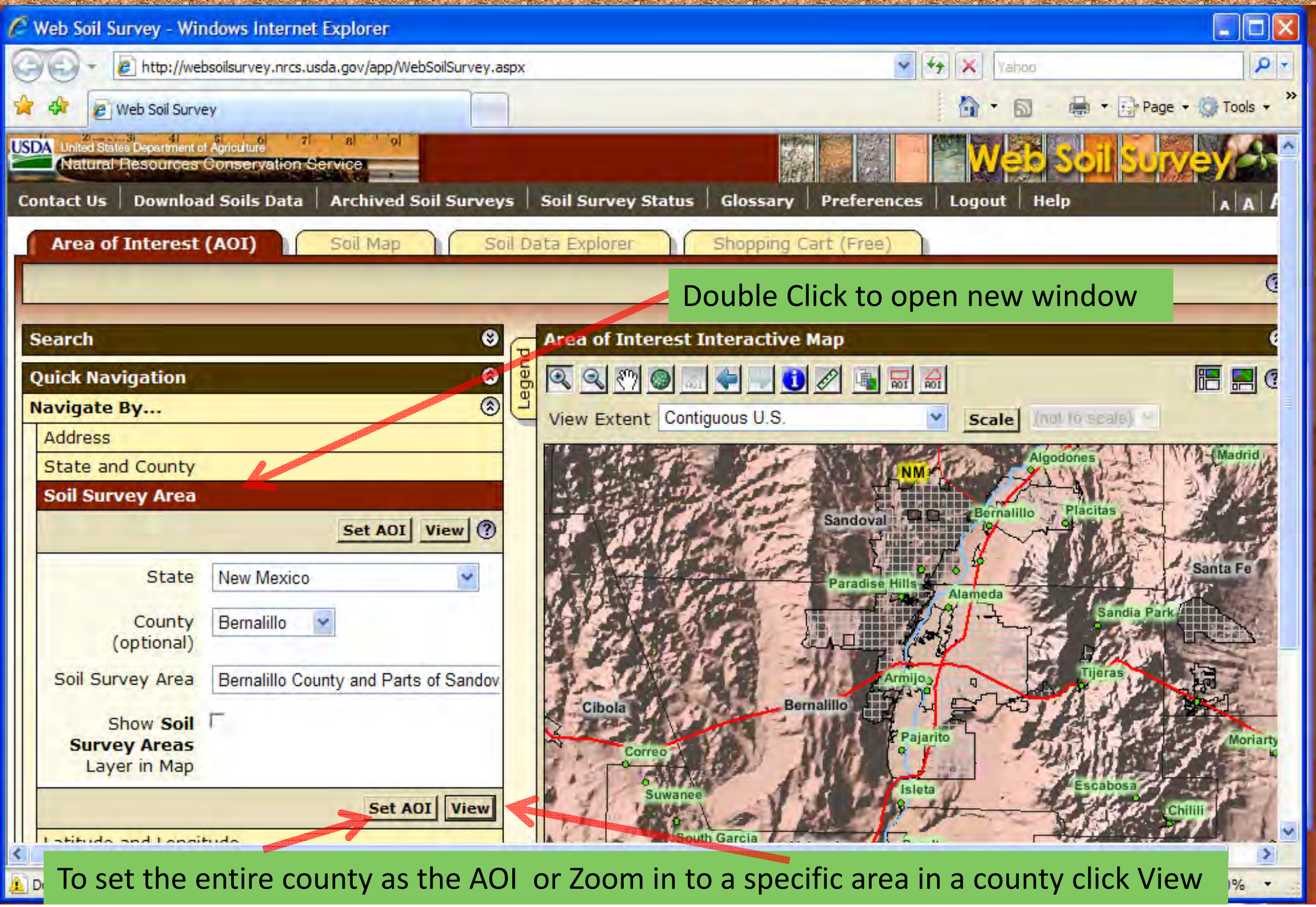

Soil Map
Bernalillo
County
Soil
Survey

WEB SOIL SURVEY

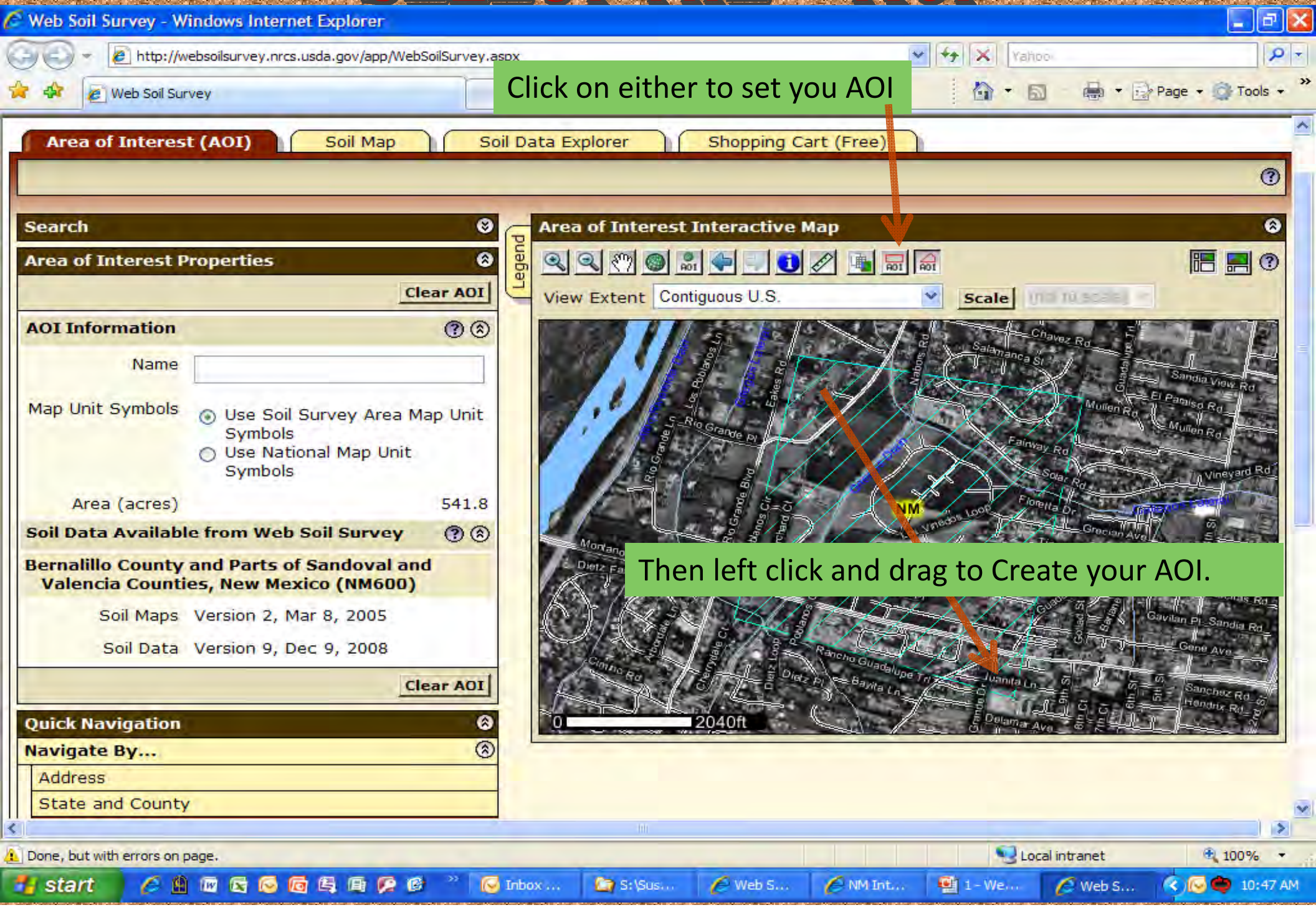


http://websoilsurvey.nrcs.usda.gov/app/

LOCATE YOUR SOIL MAPUNIT



SELECT THE -- AOI



SOIL MAPUNITS

Web Soil Survey - Windows Internet Explorer

Once the AOI has been set then, click on the next tab to see the soils map units. At this point you can print or add them to the shopping cart

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

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Map Unit Legend

Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico (NM600)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Af	Agua loam	86.2	15.9%
Ag	Agua silty clay loam	92.5	17.1%
An	Anapra silt loam	17.9	3.3%
Br	Brazito fine sandy loam	16.8	3.1%
Bs	Brazito silty clay loam	16.1	3.0%
Gb	Gila loam	160.8	29.7%
Ge	Gila clay loam	119.0	22.0%
Gm	Glendale clay loam	32.6	6.0%
Totals for Area of Interest		**541.8**	**100.0%**

Legend

Soil Map

SOIL MAPUNITS

The shopping cart is a place where you can add all of the reports, documents, maps
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Ag	Agua silty clay loam	92.5	17.1%
An	Anapra silt loam	17.9	3.3%
Br	Brazito fine sandy loam	16.8	3.1%
Bs	Brazito silty clay loam	16.1	3.0%
Gb	Gila loam	160.8	29.7%
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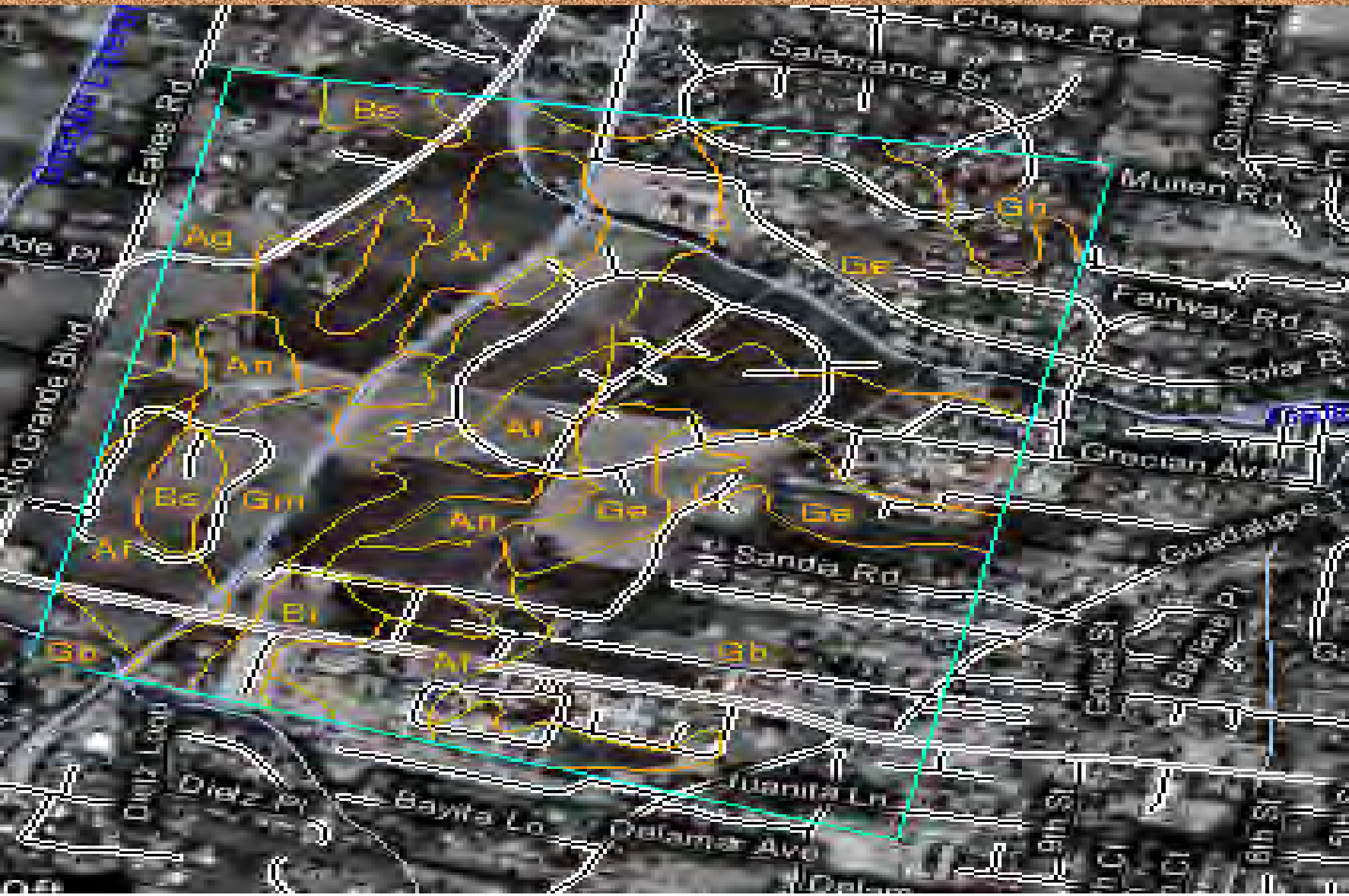
Legend

Soil Map

Scale

SOIL LINES AND SYMBOLS



SOIL CHEMICAL PROPERTIES

Click on the next tab to view reports and ratings

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Web Soil Survey

Page Tools

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

Search

Properties and Qualities Ratings

Open All | Close All

Soil Chemical Properties

- Calcium Carbonate (CaCO3)
- Cation-Exchange Capacity (CEC-7)
- Effective Cation-Exchange Capacity (ECEC)
- Electrical Conductivity (EC)
- Gypsum
- pH (1 to 1 Water)
- Sodium Adsorption Ratio (SAR)

Soil Erosion Factors

- K Factor, Rock Free
- K Factor, Whole Soil
- T Factor
- Wind Erodibility Group
- Wind Erodibility Index

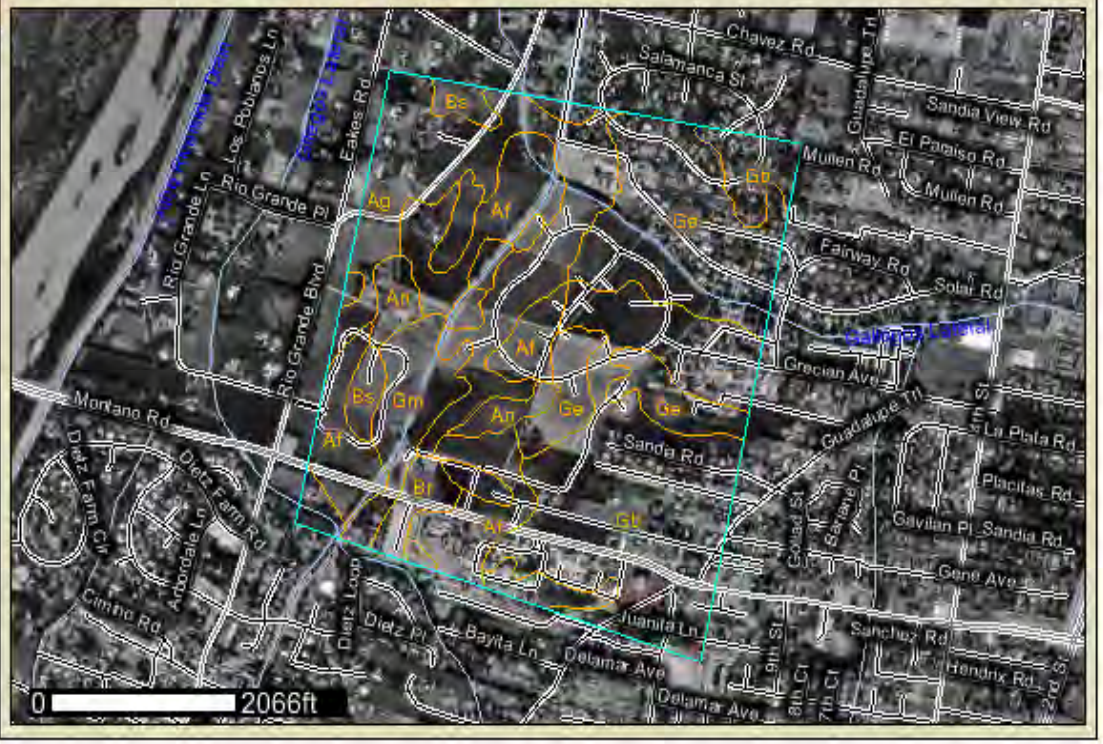
Soil Physical Properties

- Available Water Capacity
- Available Water Supply, 0 to 100 cm
- Available Water Supply, 0 to 150 cm
- Available Water Supply, 0 to 25 cm
- Available Water Supply, 0 to 50 cm
- Bulk Density, 15 Bar

Legend

Soil Map

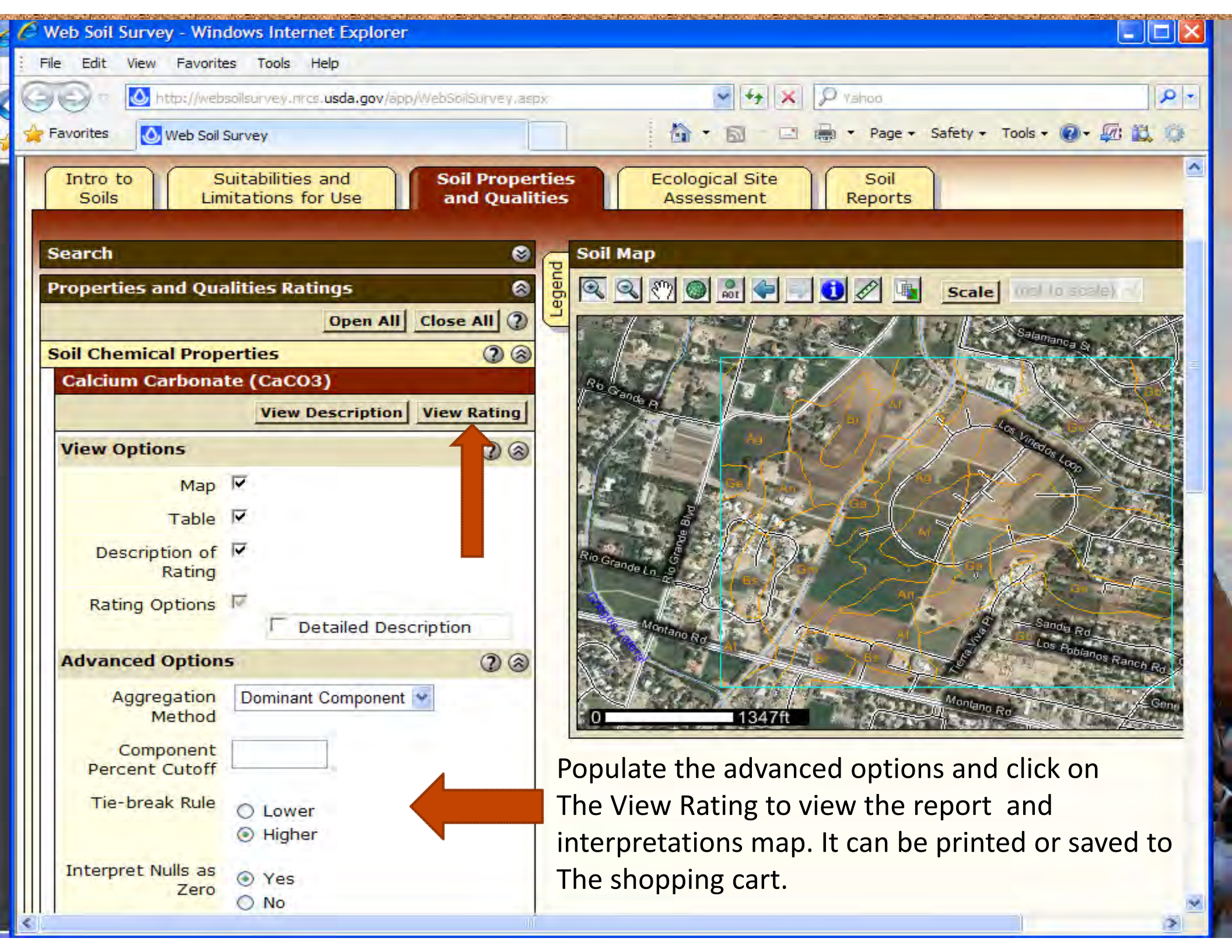
Scale



Click or double click on report name to open up New window on the same screen.

Done | Local intranet | 100%

start | Inb... | S:\S... | We... | NM ... | 1 - ... | We... | Doc... | 11:04 AM



Populate the advanced options and click on The View Rating to view the report and interpretations map. It can be printed or saved to The shopping cart.

SOIL CHEMISTRY REPORT

Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100g*	*meq/100g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
Af—Agua loam								
Agua	0-10	11-17	—	7.4-8.4	1-5	0	0.0-4.0	0-2
	10-24	7.0-12	—	7.9-8.4	1-7	0	0.0-4.0	0-2
	24-60	0.0-5.8	—	7.9-8.4	1-5	0	0.0-2.0	0-2
Ag—Agua silty clay loam								
Agua	0-10	19-26	—	7.9-8.4	1-5	0	0.0-4.0	0-2
	10-24							0-2
	24-60							0-2
An—Anapra silt loam								
Anapra	0-8	12-19	—	7.9-8.4	3-7	0	2.0-4.0	0-4
	8-24	12-22	—	7.9-8.4	3-7	0	2.0-4.0	0-4
	24-60	2.3-7.1	—	7.9-8.4	3-7	0	2.0-8.0	0-4
Br—Brazito fine sandy loam								
Brazito	0-5	4.0-11	—	7.4-8.4	0-2	0	0.0-4.0	0-2
	5-60	1.7-7.1	—	7.4-8.4	0-2	0	0.0-4.0	0-2
Bs—Brazito silty clay loam								
Brazito	0-12	17-22	—	7.4-7.8	0-2	0	0.0-4.0	0-2

Review the data carefully, some of the ranges may Be extremely broad and if used could give incorrect Interpretations for a Soil Health Management System.

PHYSICAL SOIL PROPERTIES

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibil group
										Kw	Kf	T	
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*				
Af—Agua loam													
Agua	0-10	-42-	-38-	15-20-25	1.40-1.55	4.23-14.11	0.18-0.20	0.0-2.9	0.5-1.0				
	10-24	-45-	-41-	10-14-18	1.40-1.55	4.23-14.11	0.17-0.20	0.0-2.9	0.3-0.5				
	24-60	-95-	- 1-	0-4- 8	1.40-1.55	42.34-141.14	0.03-0.06	0.0-2.9	0.1-0.3	.05	.10		
Ag—Agua silty clay loam													
Agua	0-10	-17-	-48-	30-35-40	1.40-1.55	1.41-4.23	0.19-0.21	3.0-5.9	0.5-1.0	.32	.32	5	4L
	10-24	-45-	-41-	10-14-18	1.40-1.55								
	24-60	-95-	- 1-	0-4- 8	1.40-1.55	42.34-141.14	0.03-0.06	0.0-2.9	0.1-0.3	.05	.10		
An—Anapra silt loam													
Anapra	0-8	- 7-	-70-	18-23-27	30-								
	8-24	-27-	-45-	18-28-35	1.35-1.45	1.41-4.23	0.15-0.22	3.0-5.9	0.3-0.5	.43	.43		

Organic Matter is one of the element that has been calculated and not tested.

Review the data carefully, some of the ranges may Be extremely broad and if used could give incorrect Interpretations for a Soil Health Management System.

Clay: The middle number between the high and the low Is used for developing all Interpretations.

SOIL SURVEY

- Review the data elements, used from the Soil Survey.
- Some data element numbers may be broad and could give incorrect interpretations.
- Soil Health is site specific and farmer specific – Tillage operations will change the characteristics of a soil (Structure, Organic Matter, Chemical, Biological etc.
- Use the Soil Survey for basic soils information about the map unit and not the specific site.

For more information Please Contact Your Local Office of the:

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or

Soil and Water Conservation District

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