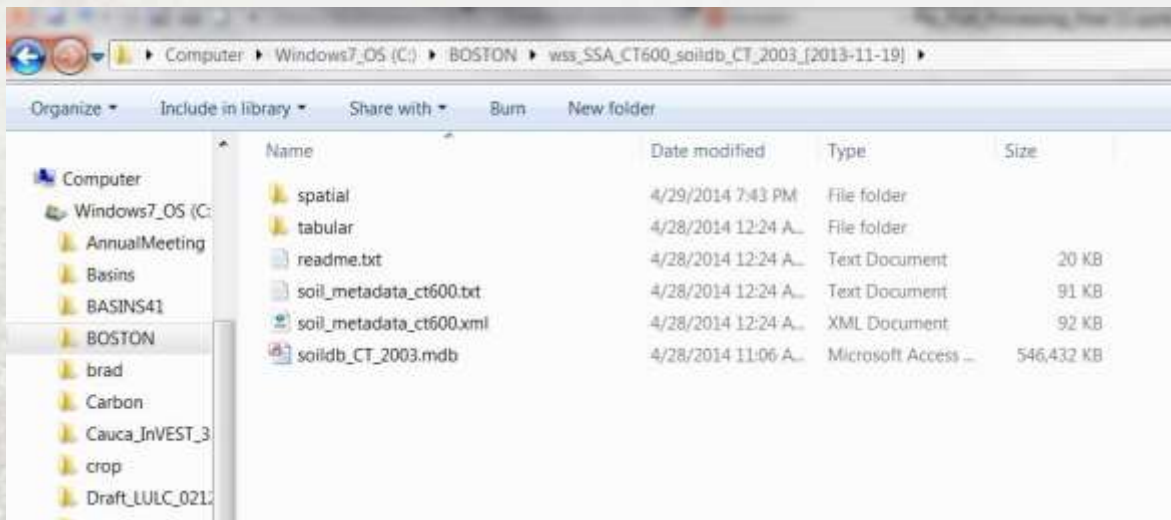


WORKING WITH SOILS DATA AND DERIVING MODEL INPUTS

SOILS

- If in the U.S., try USDA Soil Data Viewer
 - Download Viewer from USDA
 - Download county/state soil data from NRCS



Mapping unit

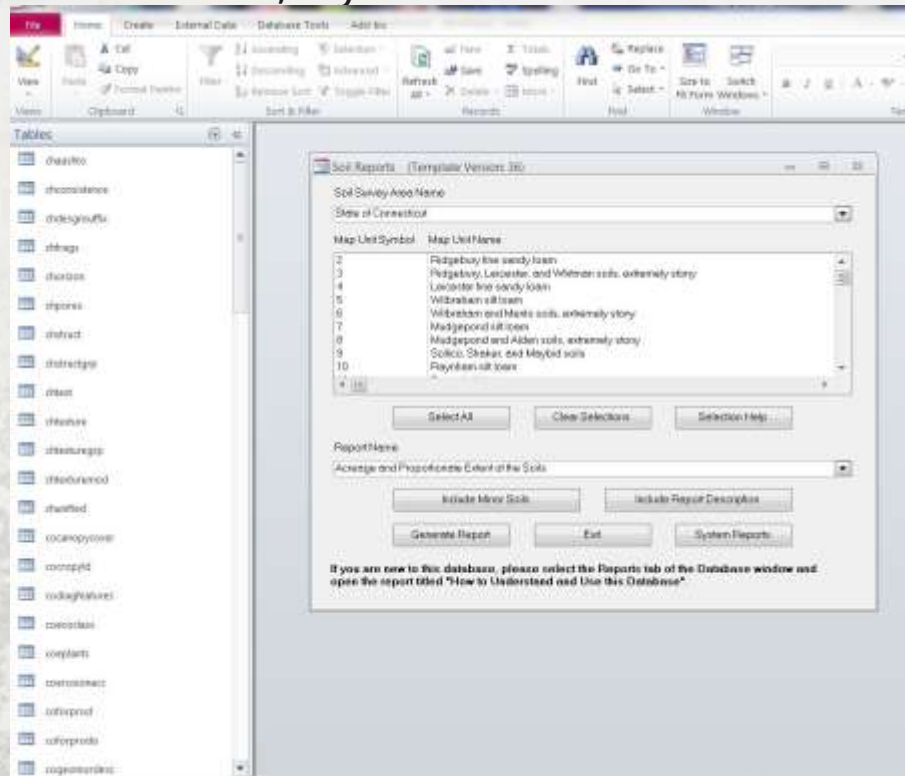


- ## Mapping unit



SOILS

- If in the U.S., try USDA Soil Data Viewer

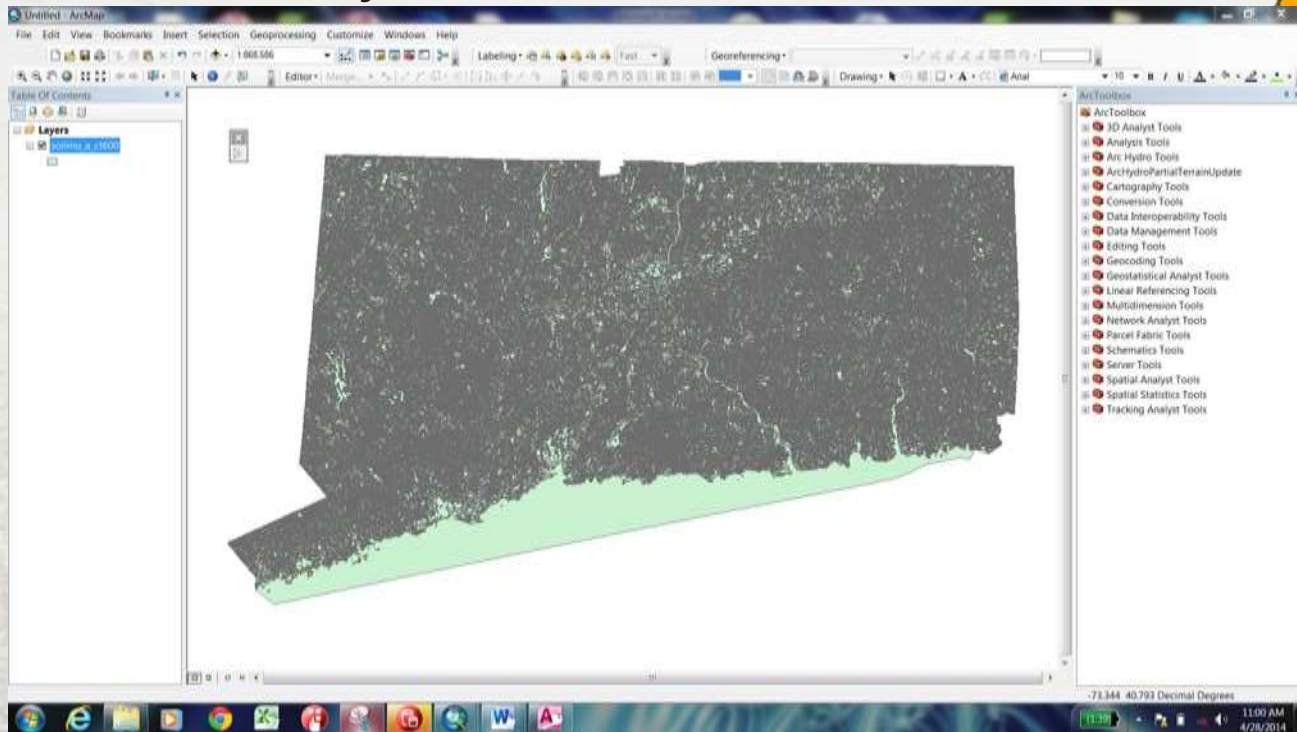


Mapping unit



SOILS

- If in the U.S., try USDA Soil Data Viewer

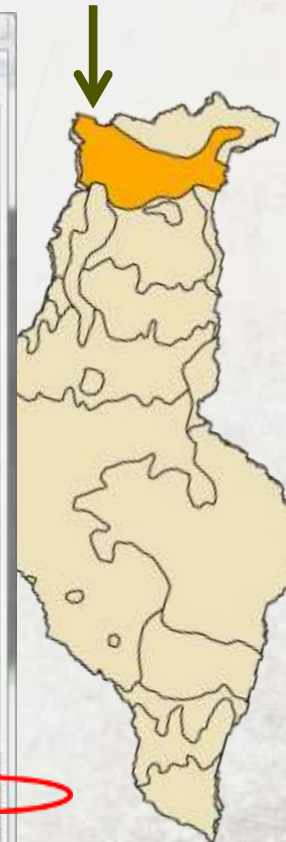
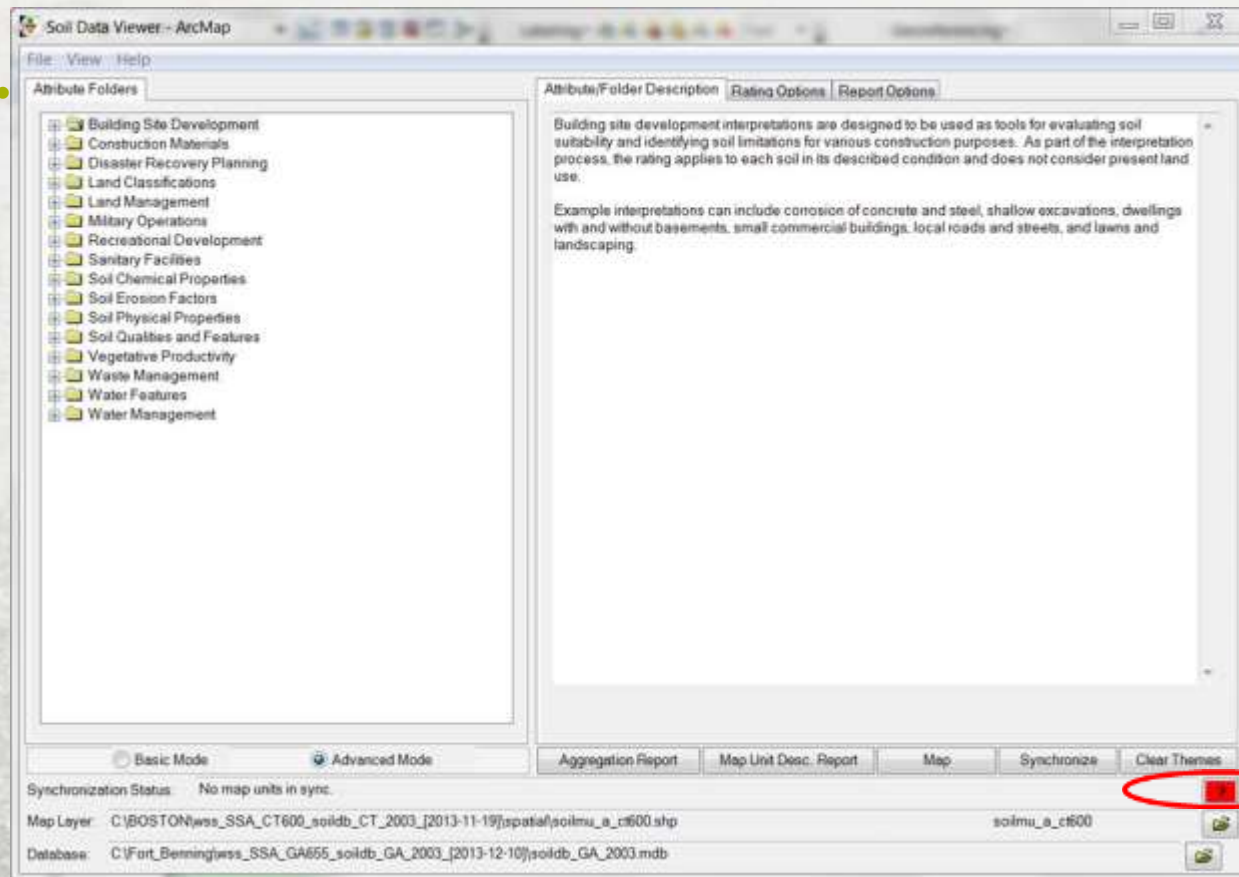


Mapping unit



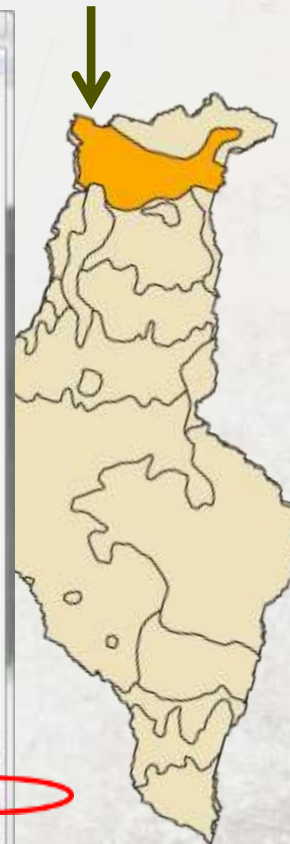
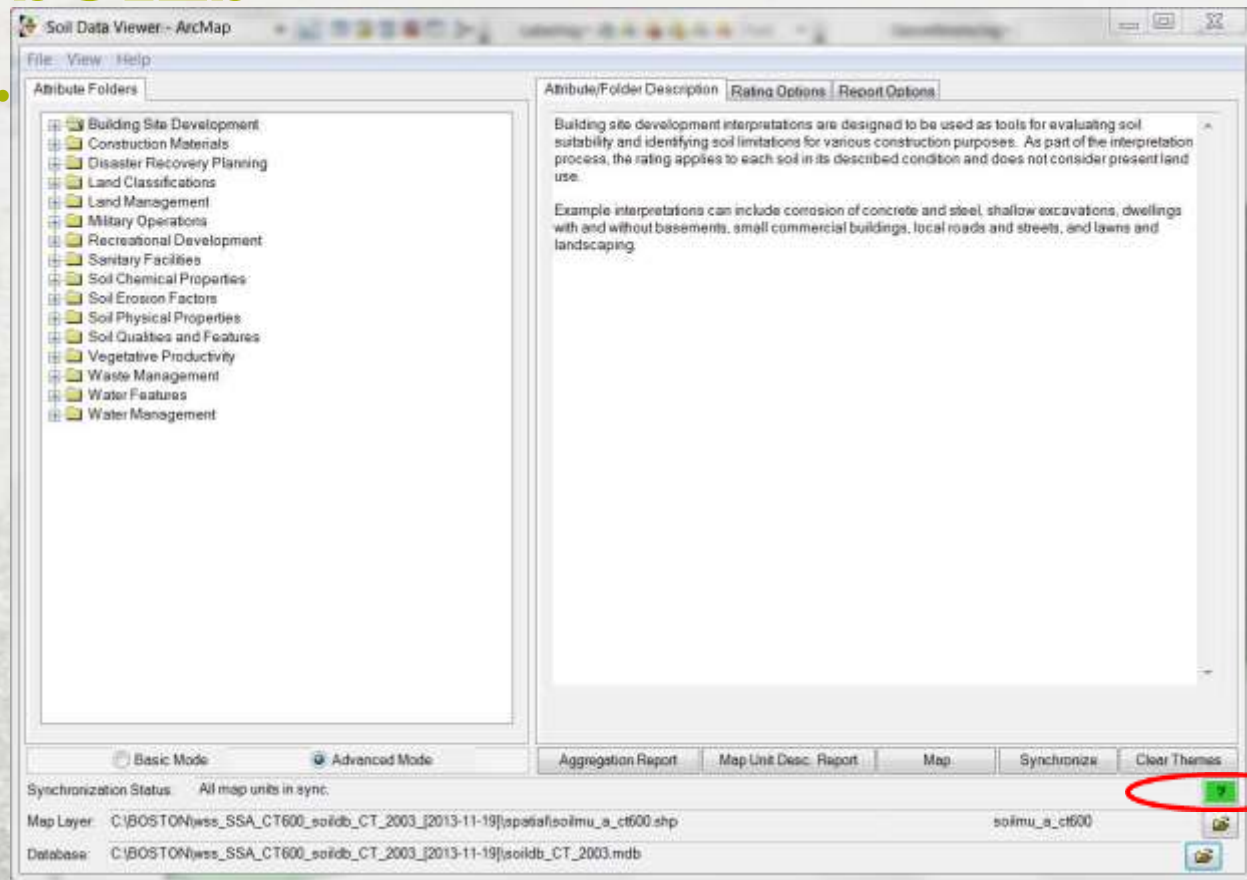
SOILS

Mapping unit



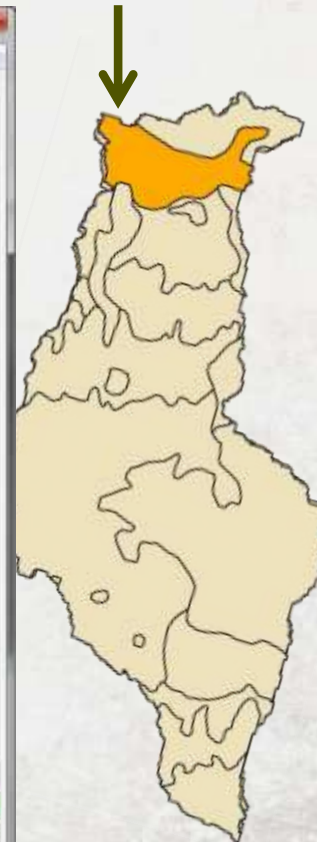
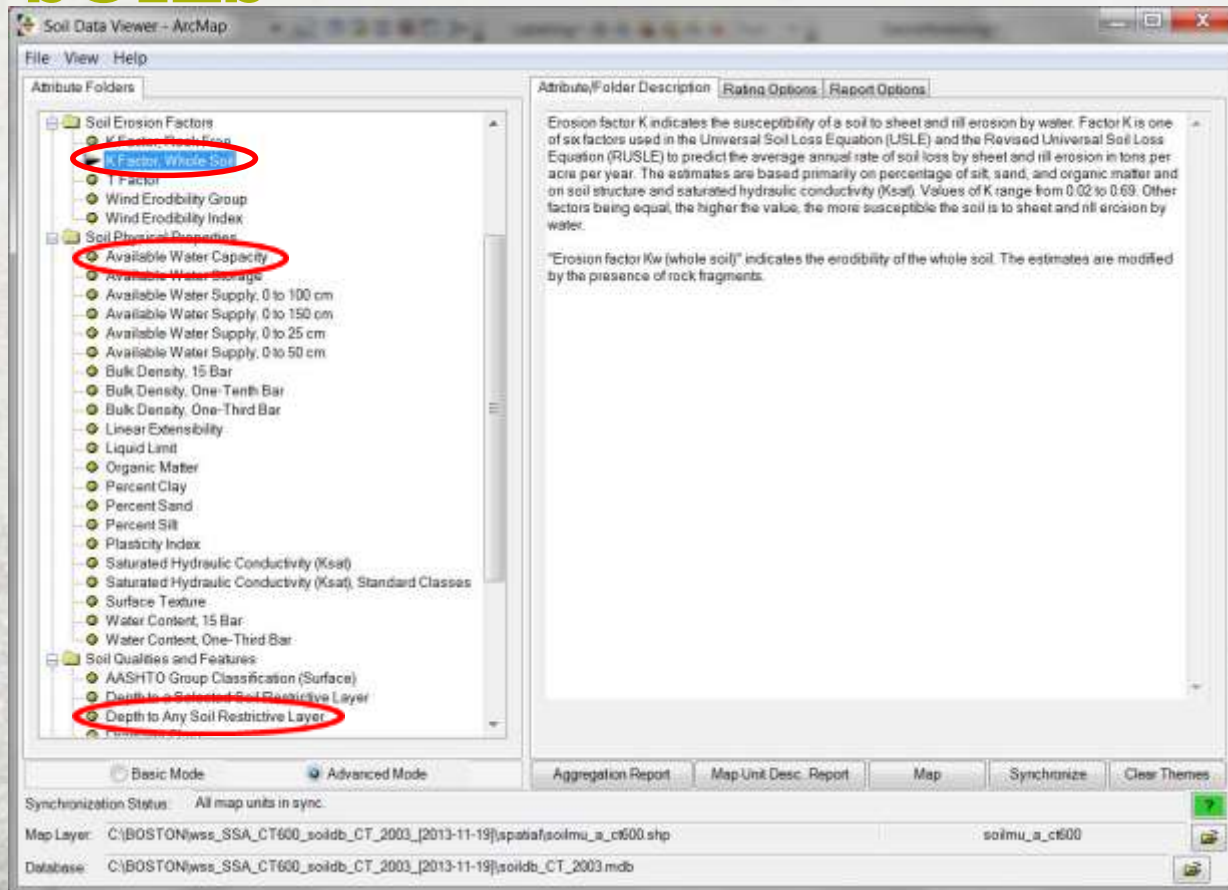
SOILS

Mapping unit



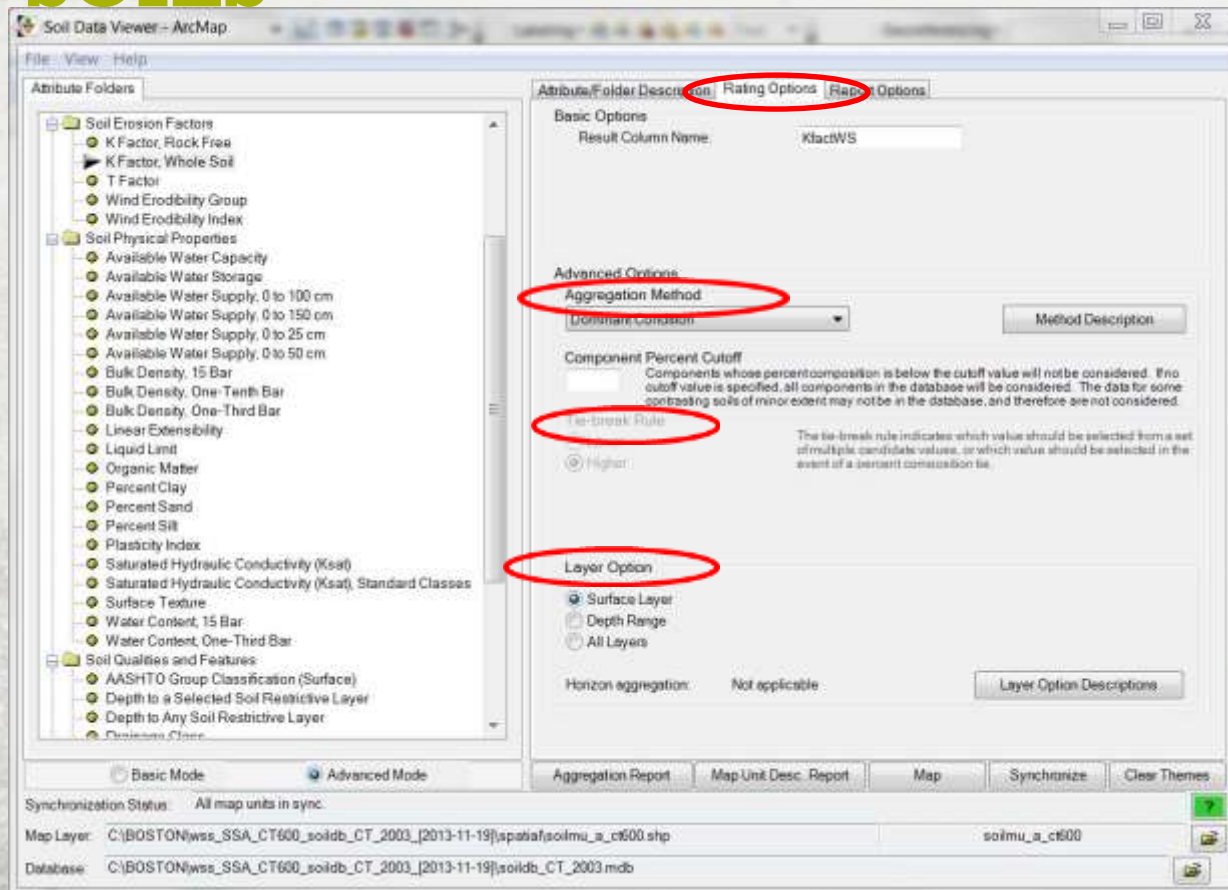
SOILS

Mapping unit



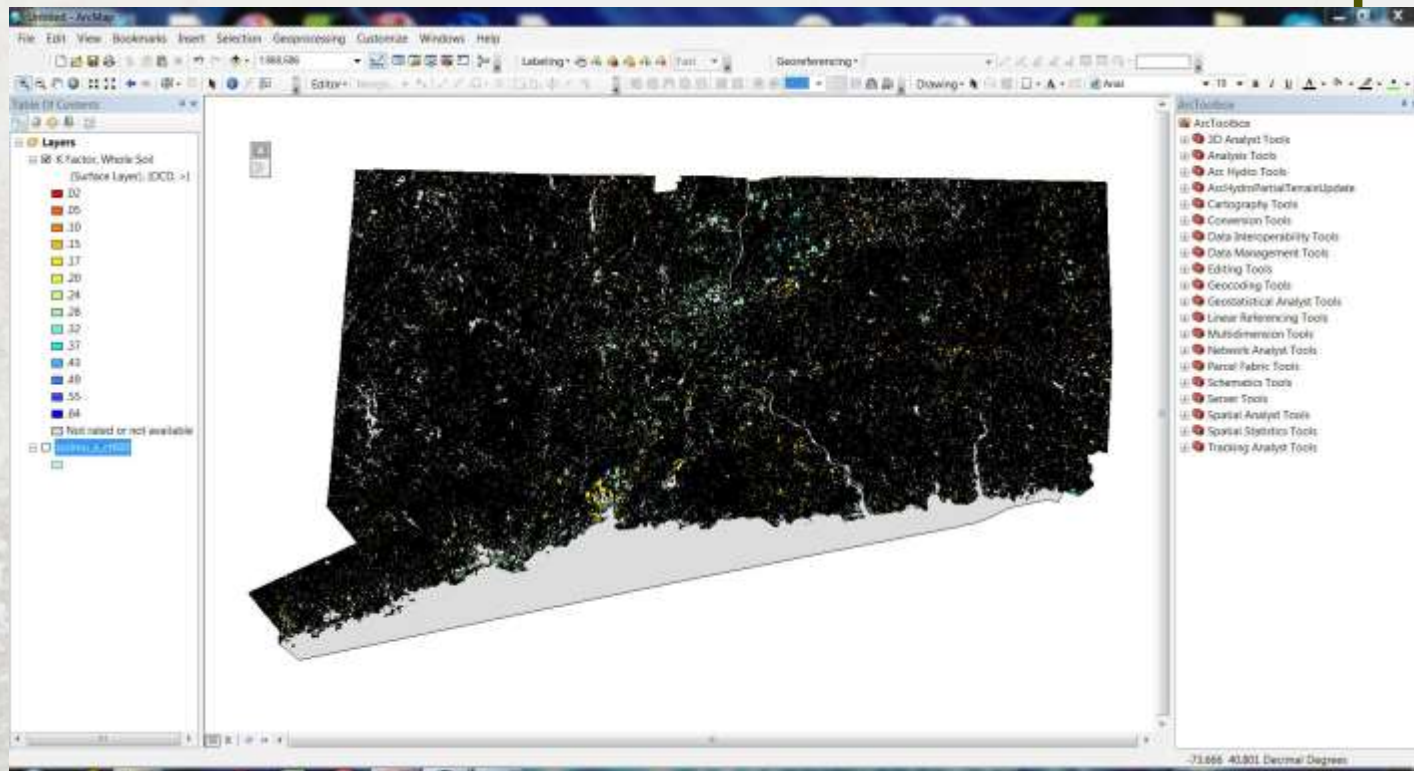
SOILS

Mapping unit



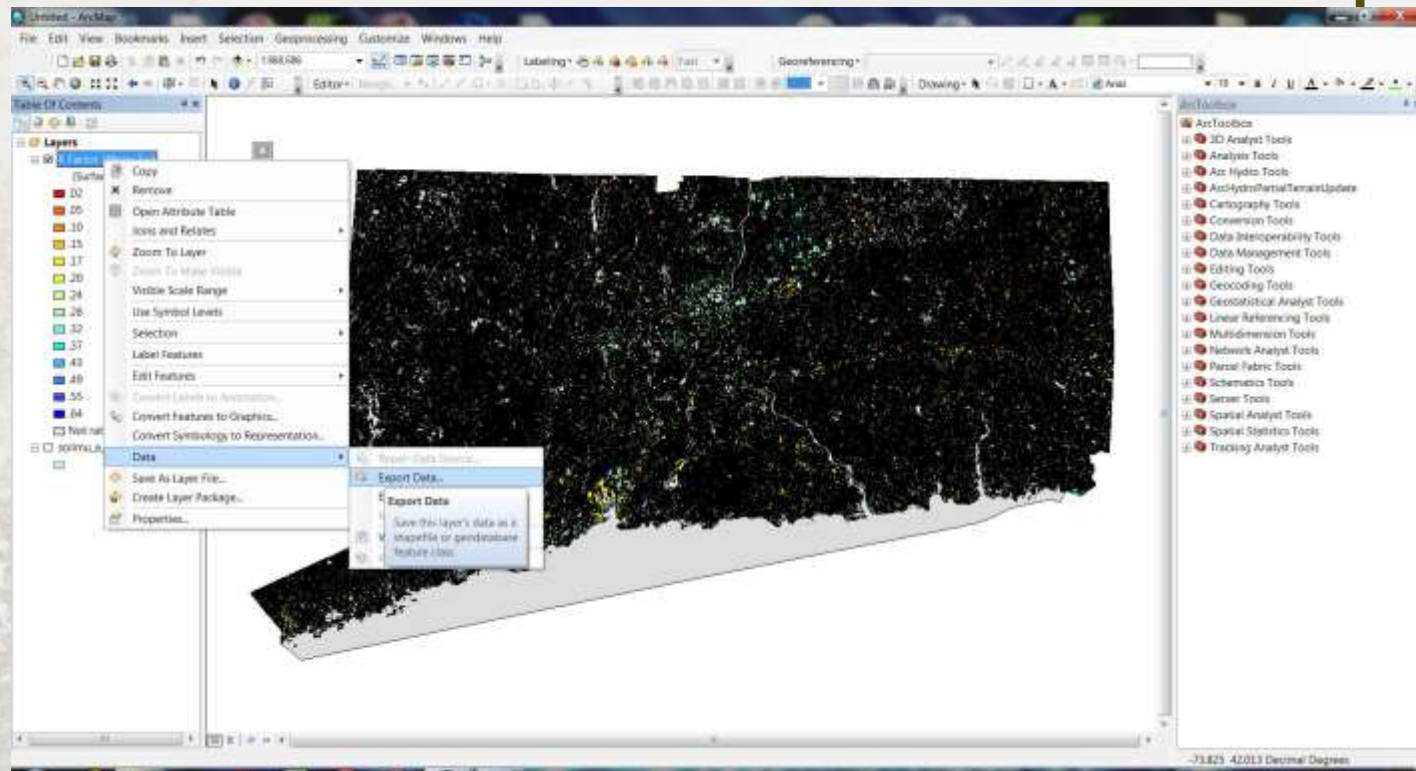
SOILS

Mapping unit



SOILS

Mapping unit



SOILS

- If in the U.S., try USDA Soil Data Viewer
 - Soil depth: Weighted Average, Tie-break - lower
 - 200 cm default for null values
 - AWC: Weighted average, Tie-break - lower, All layers
 - Erodibility: Dominant condition, Surface layer

Mapping unit



SOILS

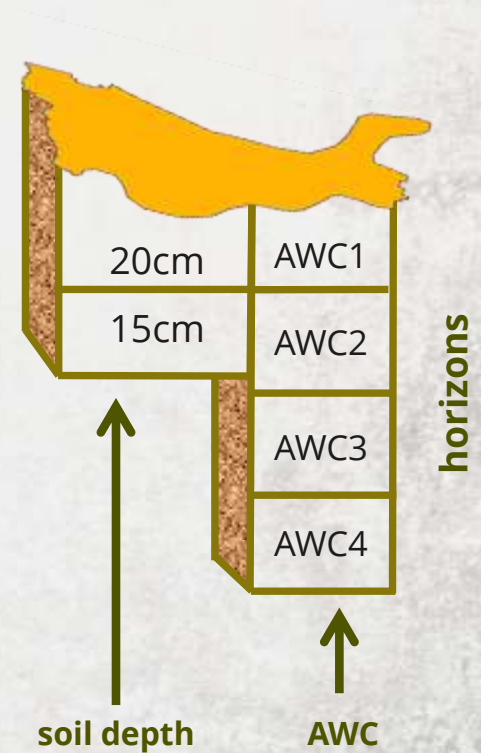
- If in the U.S., try USDA Soil Data Viewer
- If working with other soil databases...

Mapping unit



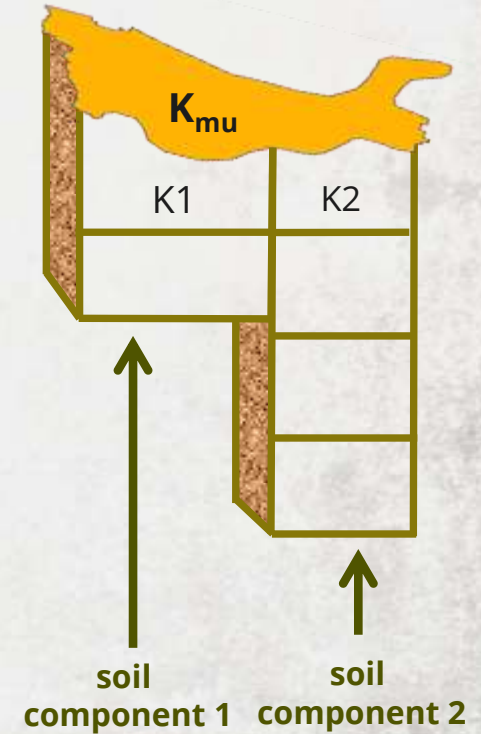
SOILS

- If in the U.S., try USDA Soil Data Viewer
- If working with other soil databases...
 - Soil depth: add up horizons or find max depth field
 - AWC: Sum of provided AWC values across horizons



SOILS

- If in the U.S., try USDA Soil Data Viewer
- If working with other soil databases...
 - Soil depth: add up horizons or find max depth field
 - AWC: Sum of provided AWC values across horizons
 - Erodibility: %sand/silt/clay/organic in top horizon; use Roose table to convert to K values



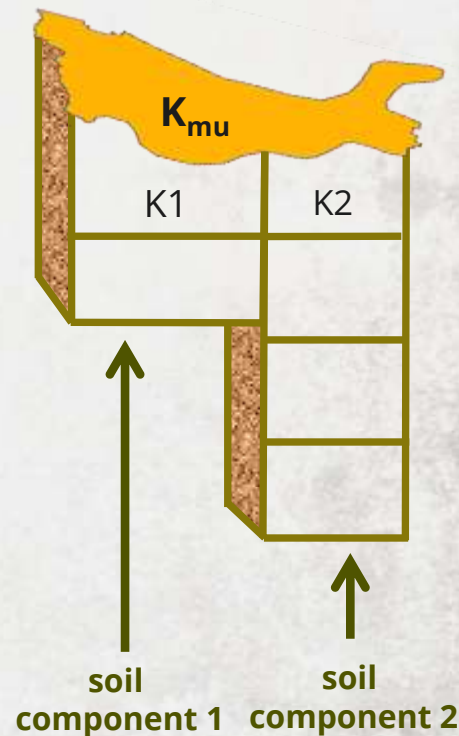
SOIL

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Estimating soil erodibility (K) based on soil texture and organic material content.

Textural Class	Spanish Texture Class	Soil composition			Mean K (based on % organic material)		
		Sand	Silt	Clay	unknown	< 2%	≥ 2%
Clay	Arcilloso	0-45	0-40	40-100	0.22	0.24	0.21
Sandy Clay	Arcilloso arenoso	45-65	0-20	35-55	0.2	0.2	0.2
Silty Clay	Arcilloso limoso	0-20	40-60	40-60	0.26	0.27	0.26
Sand	Arenoso	86-100	0-14	0-10	0.02	0.03	0.01
Sandy Loam	Franco arenoso	50-70	0-50	0-20	0.13	0.14	0.12
Clay Loam	Franco arcilloso	20-45	15-52	27-40	0.3	0.33	0.28
Loam	Franco	23-52	28-50	7-27	0.3	0.34	0.26
Loamy Sand	Franco arenoso	70-86	0-30	0-15	0.04	0.05	0.04
Sandy Clay Loam	Franco arenoso arcilloso	45-80	0-28	20-35	0.2	0.2	0.2
Silty Clay Loam	Franco limoso arcilloso	0-20	40-73	27-40	0.32	0.35	0.3
Silt	Limoso	0-20	88-100	0-12	0.38	0.41	0.37
Silty Loam	Franco limoso	20-50	74-88	0-27	0.38	0.41	0.37

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SOILS

- If in the U.S., try USDA Soil Data Viewer
- If working with other soil databases...
 - Soil depth: add up horizons or find max depth field
 - AWC: Sum of provided AWC values across horizons
 - Erodibility: %sand/silt/clay/organic in top horizon; use Roose table to convert to K values
 - Mapping unit value = weighted average across components

