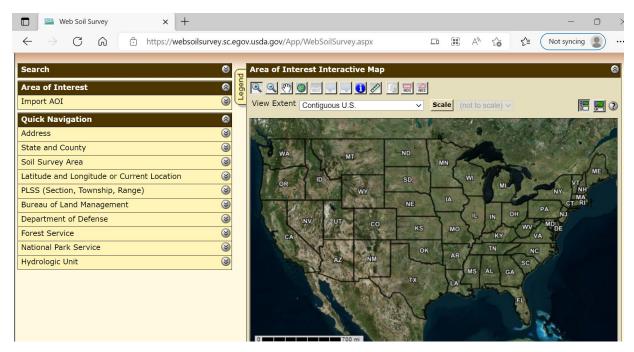
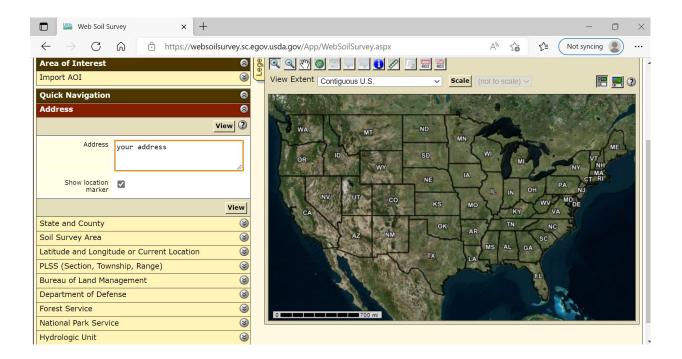
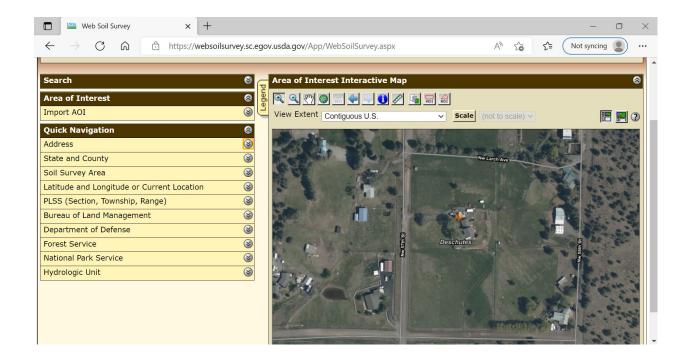
STEP-BY-STEP APPLICATION OF WEB SOIL SURVEY

https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm





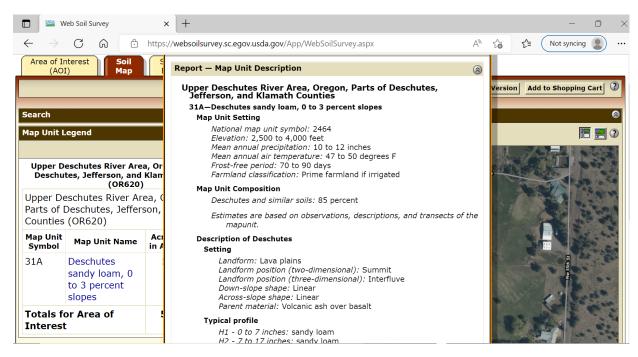


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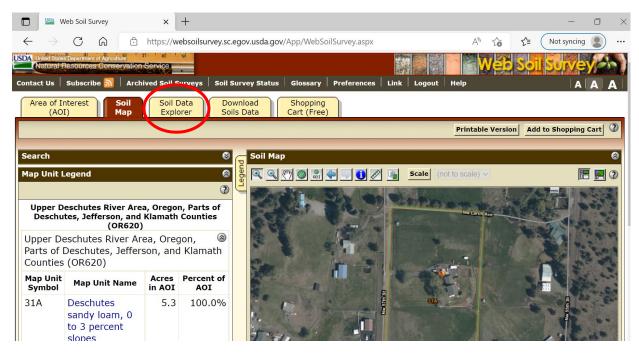
Select AOI (Area of Interest) to outline the area you want soils information.

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Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	and the second s					30		2.0	
31A	Deschutes sandy loam, 0 to 3 percent slopes	5.3	100.0%		a to	Imestites a	AIG			IS USE		Construction of the
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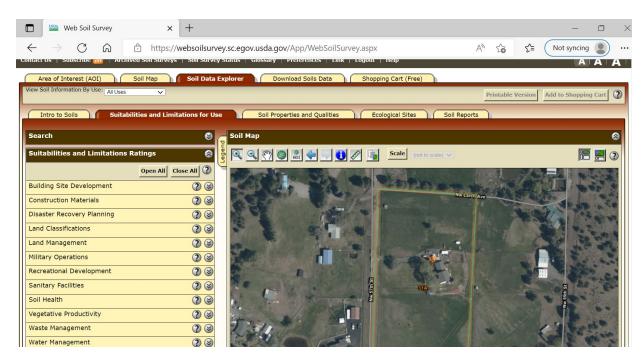
Once the AOI is determined, select the "Soil Map" tab to retrieve soils information.



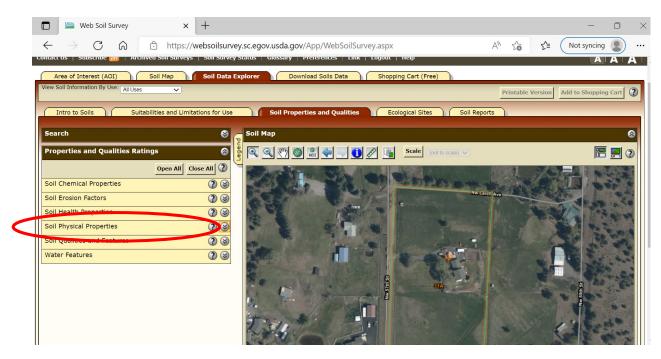
Click on the map unit name to get the detailed soil description.



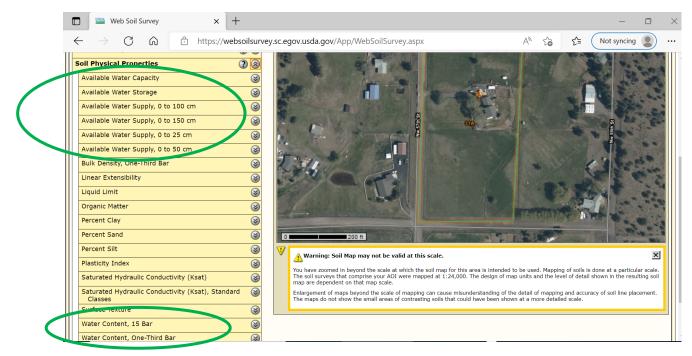
Click on Soil Data Explorer to access the soil properties tabs.



Select the "Suitability and Limitations For Use" tab to access a variety of productivity and suitability data.

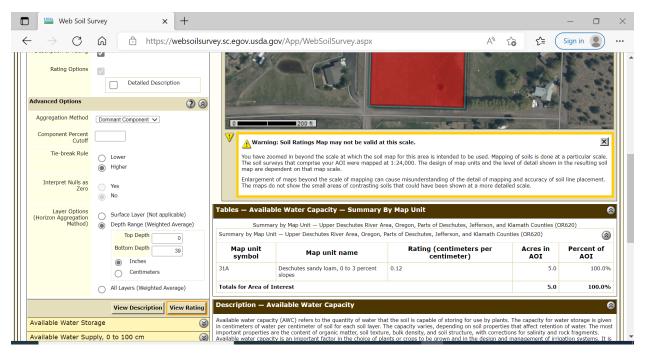


Select the "Soil Properties and Qualities" Tab to access the physical properties of the soil. This is where irrigation water management (IWM) information about the soil is housed.

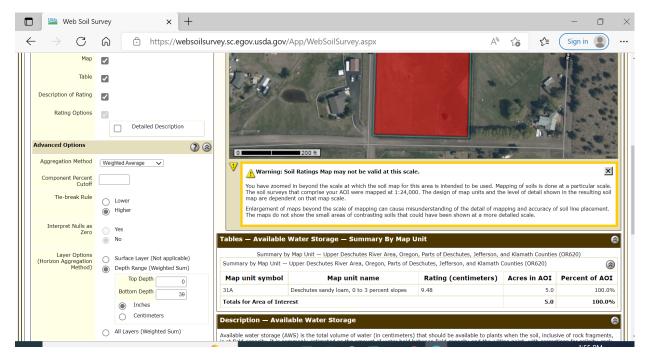


The above tabs are used for IWM scheduling.

Available Water Capcity (AWC) - The quantity of water that the soil is capable of storing for use by plants.

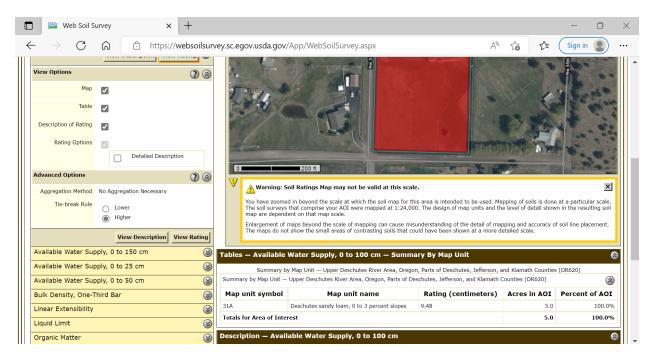


Available Water Storage (AWS) - Total volume of water (in centimeters) that should be available to plants when the soil, inclusive of rock fragments, is at field capacity.



Don't forget to convert centimeters to inches (3.7 inch)

Available Water Storage (AWS) 0 to 100cm (39 in)

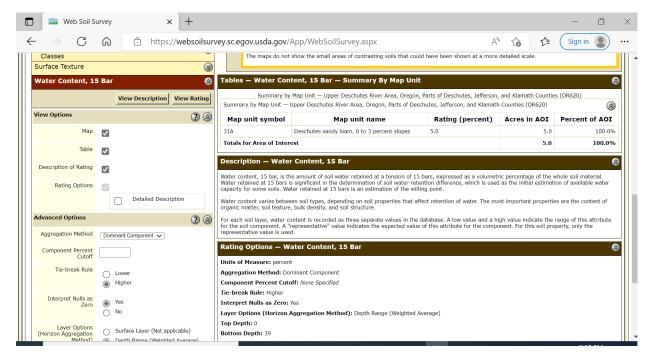


Don't forget to convert centimeters to inches (3.7 inch)

12in = 30 cm 24in = 61 cm 31in = 79 cm 39in = 100 cm 59in = 150 cm 9in = 25 cm

20in = 50 cm

Water Content 15 Bar - the amount of soil water retained at a tension of 15 bars, expressed as a <u>volumetric percentage</u> of the whole soil material. Water retained at 15 bars is an estimation of the wilting point.



This is for a soil 39inches (100 cm)

Water Content at 1/3 Bar - the amount of soil water retained at a tension of 1/3 bar, expressed as a <u>volumetric percentage</u> of the whole soil. Water retained at 1/3 bar is the value commonly used to estimate the content of water at field capacity for most soils.

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	View Options	2 8	31A	Deschutes sandy loam, 0 to 3 percent slopes	14.2		5.0	100.0	%	
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	Table		Description — Water Content, One-Third Bar							
	Description of Rating		retained at 1/3 bar is signif	ar, is the amount of soil water retained at a tension ficant in the determination of soil water-retention of ned at 1/3 bar is the value commonly used to estin	lifference, which is used as the	e initial estimatior	of availabl			
	Rating Options	Detailed Description Detailed Description For each soil layer, water content is recorded as three separate values in the database. A low value and a high value indicate the range of this attribute								
	Advanced Options	28	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.							
	Aggregation Method	Dominant Component V Rating Options – Water Content, One-Third Bar								
	Component Percent Cutoff									
	Tie-break Rule		Component Percent Cutoff: None Specified							
		Lower Higher	Tie-break Rule: Higher							
		Inglier	Interpret Nulls as Zero: Yes							
	Interpret Nulls as Zero									
No Top Depth: 0										
	Laver Options		Bottom Depth: 39							
	(Horizon Aggregation	Surface Layer (Not applicable)								
	Method)									
		Top Depth 0								
		Bottom Depth 39								

Total Available Water (TAW) = is the FC (at 1/3 Bar) – Permanent Wilting Point (PWP) Total available water (TAW) and available water storage (AWS) is the same thing

Example: 14.2% - 5.0% = 9.2%

<u>9.2 % x 39 in</u> = 3.6 inch

100