Step 2 of 4



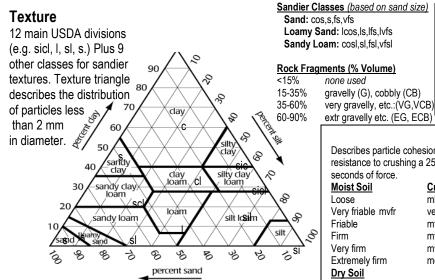
# Reno County Health Department

209 West 2nd Hutchinson KS 67501 Phone: 620-694-2900 Fax: 620-694-2901 Soil Profile Worksheet

# THIS IS NOT A PERMIT

Soil Type:

Property Owner:				Property Address:						
Property Owner Phone: Floodplain on Property: Y N				УΝ	Mailing Address:					
Land Use: Lot Size: Enh Tr: Y N # of Bedrooms:			s:	Location	of Profile Pit:					
Garbage Disposal: Y N Fixed irrigation over system: Y N Water condi				er condi	tioner/tr	eatment: Y N	Vegetation:		Fees Paid: Y N	
Horizon	Depth	Dominant C	Color	Mottles	Тех	ture	Structure	Consistence	Roots	Remarks
Loading Rate (GPD / Ft² ):  Restrictive Layer(s): Y N  Type: Depth:			•	Refer to the systems. Refer to the	Reno County Sanitation Coo KDHE Bulletin 4-2 Minimun KAS, KSU, KDHE Environm rts at the ends of each lat	ental Health Handbook, eff	7, for design and const	ruction of onsite wastewater design standards.		
				Soil Pro Comple	ted by: cial Use On ed by:	ly:	mental Health Spe		Date:	



Dominant Color: identifies the color that occupies the greatest volume of the horizon. Use Munsell Color Chart - Hue/Value/ Chroma, (e.g 10YR 5/1).



Platy: Thin, flat plates of soil that lie horizontally. Usually found in E-hz or compacted soils.



Prismatic: Vertical columns of soil that might be a number of cm long. Usually found in subsoil (B) horizons.



Columnar: Vertical columns of soil that have a round "cap" at the top. Found in sodium (Na) affected soils.



Blocky: Irregular blocks that are usually 1.5 - 5.0 cm in diameter.



Granular: Resembles cookie crumbs usually less than 0.5 cm in diameter. Commonly found in surface horizons with prairie grass root systems.



Single Grained: Soil is broken into individual particles that do not stick together. Always accompanies a loose consistence. Commonly found in sandy soils



Massive: Soil has no visible structure, is hard to break apart and appears in very large clods.

### **Boundary** (e.g. cw)

the trar	isition between horizons.			
<u>Distinctness</u>				
Α	< 2 cm	Smooth	S	Nearly a plane
С	2-5 cm	Wavy	W	Waves wider than deep
G	5-15 cm	Irregular	I	Depth greater than width
D	> 15 cm	Broken	В	Discontinuous
	A C G	A < 2 cm C 2-5 cm G 5-15 cm	A         < 2 cm         Smooth           C         2-5 cm         Wavy           G         5-15 cm         Irregular	Ness         Topography           A         < 2 cm

### Consistence

Describes particle cohesion and adhesion. Strength describes the resistance to crushing a 25 mm cube or medium sized ped with 5 seconds of force.

Moist Soil		Crushing Force			
	Loose	ml	falls apart		
	Very friable mvfr	very slight			
	Friable	mfr	slight		
	Firm	mfi	moderate		
	Very firm	mvfi	strong		
	Extremely firm	mefi	squeeze between hands		
	Dry Soil				
	Loose	dl	falls apart		
	Soft	ds	very slight		
	Slightly hard	dsh	slight to moderate		
	Hard	dh	strong		
	Very hard	dvh	squeeze between hands		
	Extremely hard	deh	under foot		
	=				

## Mottling

Describe spots of different color -

Color / Quantity / Size / Contrast / Shape				
<b>Quantity</b>				
Few	f	< 2%		
Common	С	2-20%		
Many	m	> 20%		
Size				
Fine	1	< 5 mm		
Medium	2	5-15 mm		
Coarse	3	> 15 mm		
Contrast				
Faint	f	Difficult to see		
Distinct	d	Readily seen		
Prominent	р	Conspicuous		
Shape				
Note in remarks	<ul> <li>streaks, bands</li> </ul>	, spots, etc.		

Horizon

Sub-Horizon

Horizon (e.g. B 2)

Use A, E, B, C

Use 1, 2, 3...

# Structure (e.g. 2msbk)

Describe units (peds) that separate at surfaces of weakness - Grade / Size / Shape

3r	ad	e

none used

Structureless Weak Moderate	0 1 2	No aggregation Barely observable Distinct peds	aggregation	Depth Interval (e.g. 8")  Measured from top of horizon to bottom of horizon.  Use inches, decimal feet or centimeters (show units).		
Strong	3	Durable peds		Coo monos, acon	narrotter (errorr armo).	
<u>Size</u>		Granular Platy*	<u> Angular, Sι</u>	ıbangular, Blocky	Prismatic, Columnar	
Very fine	vf	< 1 mm	< 5 mm		< 10 mm	
Fine (Thin)	f	1-2 mm	5-10 mm		10-20 mm	
Medium	m	2-5 mm	10-20 mm		20-50 mm	
Coarse (Thick)	С	5-10 mm	20-50 mm		50-100 mm	
Very coarse	VC	> 10 mm	> 50 mm		> 100 mm	
·		*For platy structure	use thin in place	ce of fine and thick r	rather than coarse.	

# Shana

<u>Snape</u>		
Platy	pl	Flat, plate like
Prismatic	pr	Taller than wide
<ul> <li>Columnar</li> </ul>	cpr	rounded tops
Blocky	bk	cubical
- Angular	abk	sharp edges
- Subangular	sbk	rounded edges
Granular	gr	spherical, crumb-like
No structure		
<ul> <li>Single grain</li> </ul>	sg	sandy texture
- Massive	ma	

Roots	(e.g.	2 vf)

Quantity

Few	1	< 1 / unit area		
Common	2	1-5 / unit area		
Many	3	> 5 / unit area		
<u>Size</u>			<u>Unit</u>	
<u>Area</u>				
Very fine	vf	< 1 mm	1 cm <sup>2</sup>	
Fine	f	1-2 mm	1 cm <sup>2</sup>	
Medium	m	2-5 mm	1 dm <sup>2</sup>	
Coarse	co	> 5 mm	1 dm <sup>2</sup>	