



A record is part of your 4-H project. Keep your record neat, clean, and up-to-date. It's best to use a pencil. Write clearly. If you need help ask your parents or leaders. If you need more space, add notebook paper to your record. Date \_\_\_\_\_ Crew members \_\_\_\_ Plot no. \_\_\_\_\_ Location \_\_\_\_ Weather \_\_\_\_ General data Air temperature: 3 feet above ground \_\_\_\_\_ just above ground \_\_\_\_\_ Soil temperature: in organic layer \_\_\_\_\_ 3 inches deep into mineral soil What is the soil moisture content of the mineral soil? (circle one) moist dry How does the soil texture feel? (circle one) smooth (silt) gritty (sand) sticky (clay) List the soil name (type) and map symbol according to the soil survey for your county. Include any important information (for example, percent of sand, silt, or clay). List plants growing in this plot. What is the relationship between the soil texture (sand, silt, or clay content) and plants?

none (flat ground)

Explain how land uses (recreation, construction, logging, tree planting, grazing) could affect the soil

5-25%

25-50%

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What is the slope of this plot? (circle one)

List any erosion concerns.

resources in this plot.

over 50%

## **Analyzing soil horizons**

## Contents of layers above top soil (if existing)

Select an area about 2 or 3 feet square on the ground. Sift through the top 3 inches, recording the evidence of plants and animals you observe. Replace the ground in as near original condition as possible.

Term and definition	Name or description of item in the soil	Quantity	Describe the characteristics (example: feel, smell, color)
Litter (identifiable dead plant or animal material on surface)			
Duff (partially decomposed, identifiable organic matter compacted)			
Humus (almost completely decomposed, non-identifiable organic matter)			
Soil horizons data Sketch your soil profile, laborated in the state of	el the horizon, and record th	e data.	
Horiz	on D	epth	Color
Textu	reSt	ructure	pH
Plant	roots visible		
Textu	on D	epth	Color
	reSt	ructure	pH
	roots visible		
Text	on D	epth	Color
	reSt	ructure	pH
	roots visible		
Text	on D	epth	Color
	re St	ructure	pH
	roots visible		
Parent material (C horiz Describe type of rock in the	•		

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