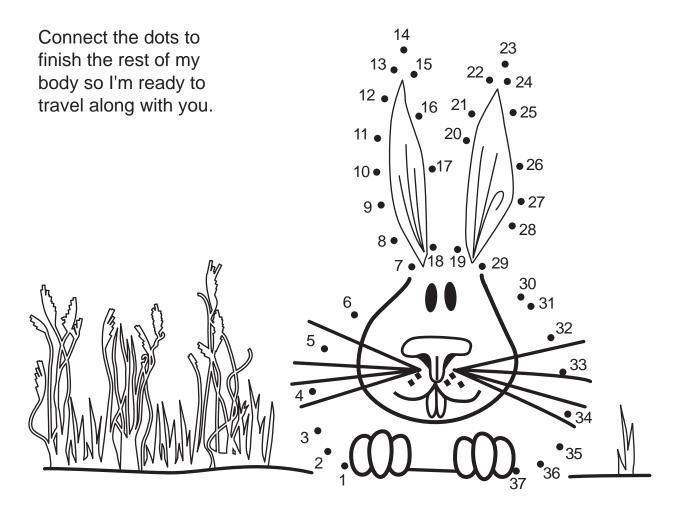


My name is Dust E. Bunny. I dig dirt. You know, the stuff humans call "soil". I live in a watershed and my home just wouldn't be the same without soil.

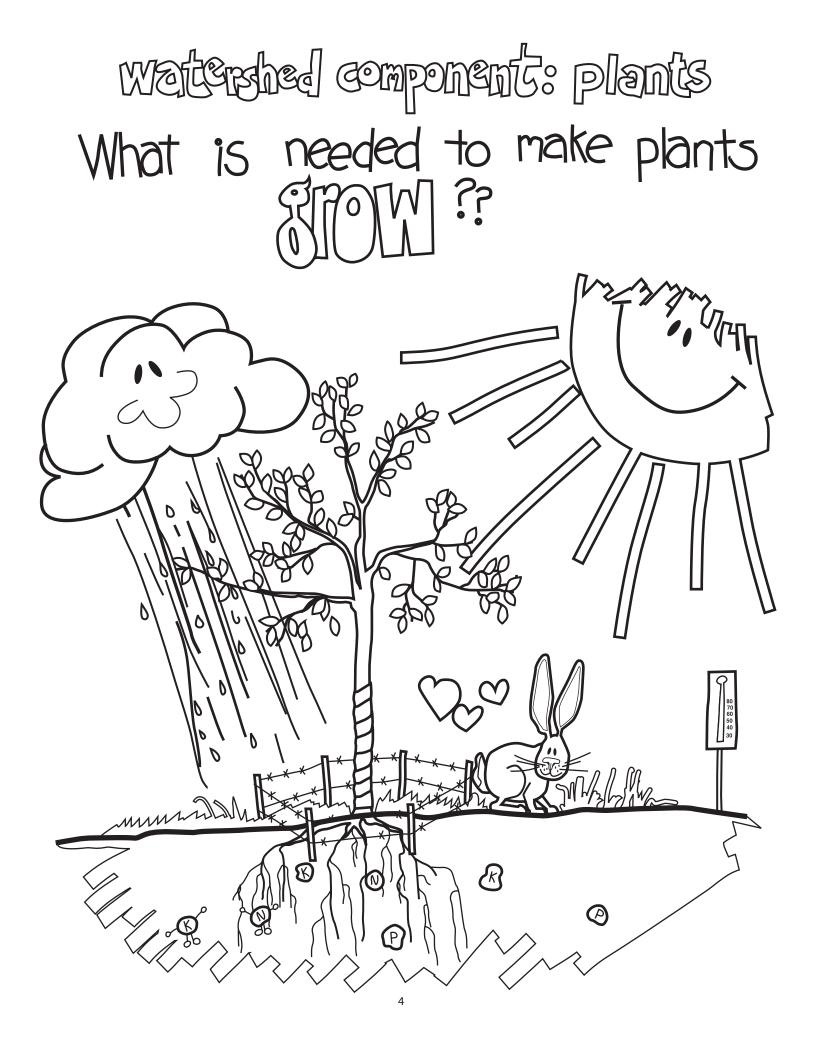
A watershed is an area in which all the water flows into one larger body of water, such as a river or lake. When the water gets to the river or lake it needs to be clean for fish to live in and for farmers and ranchers to irrigate with. A watershed needs plenty of healthy vegetation, not just for me to eat, but also to keep the soil from eroding and making the water dirty.

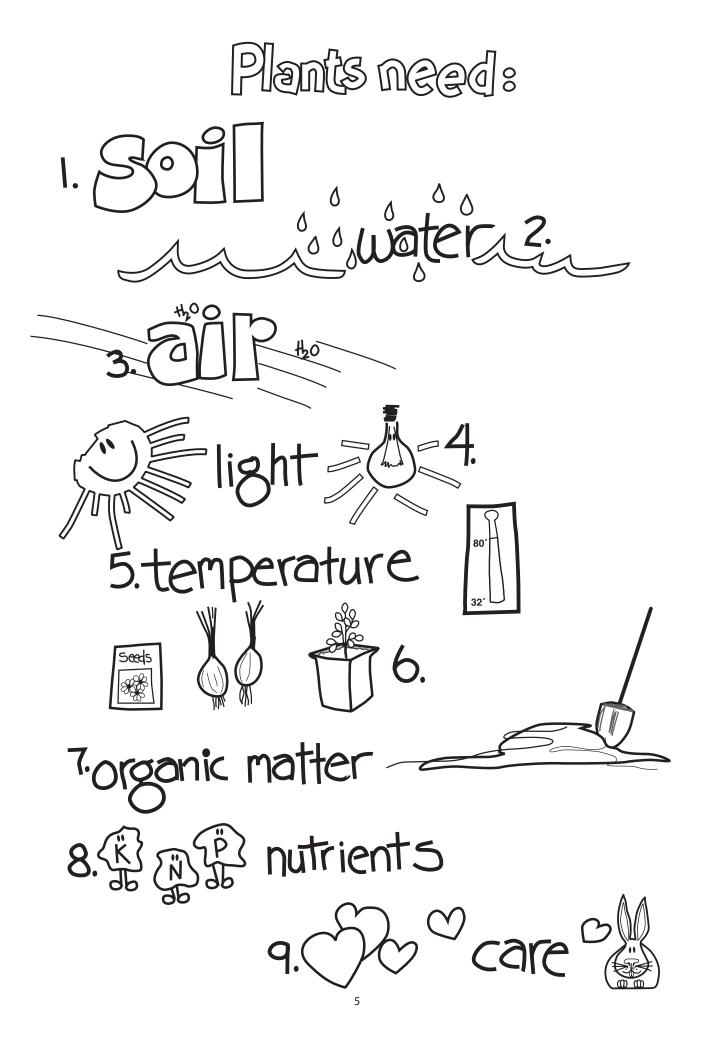
This activity book will explain what is needed to make a watershed healthy, how plants grow, and ways to keep the soil from eroding. Hop along with me and let's learn more about watersheds, plants, and soil. I'll be on every page of this activity book.

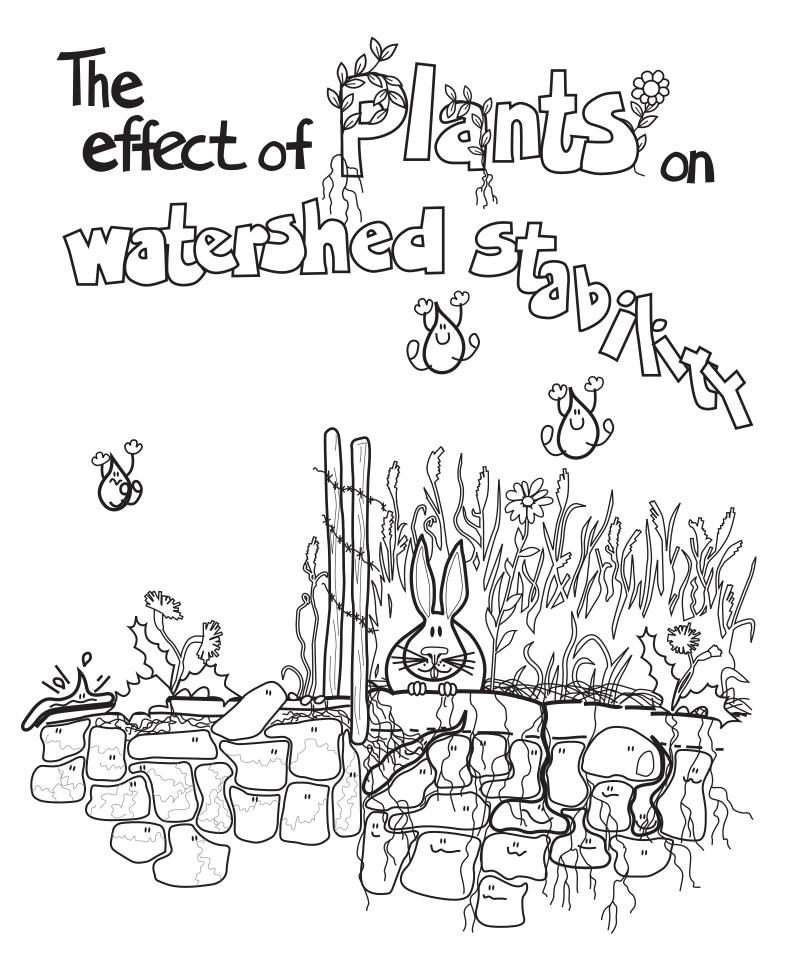
Can you find me?

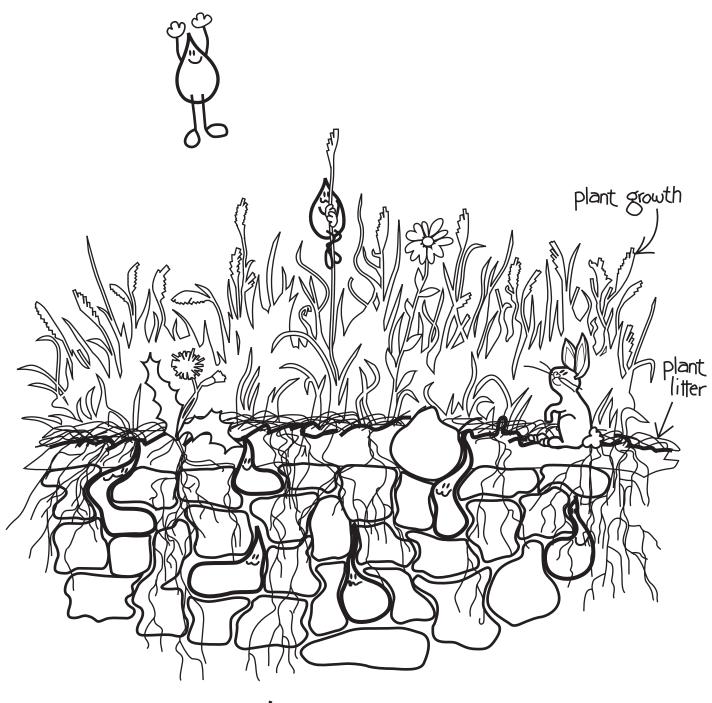












ground cover is needed for:

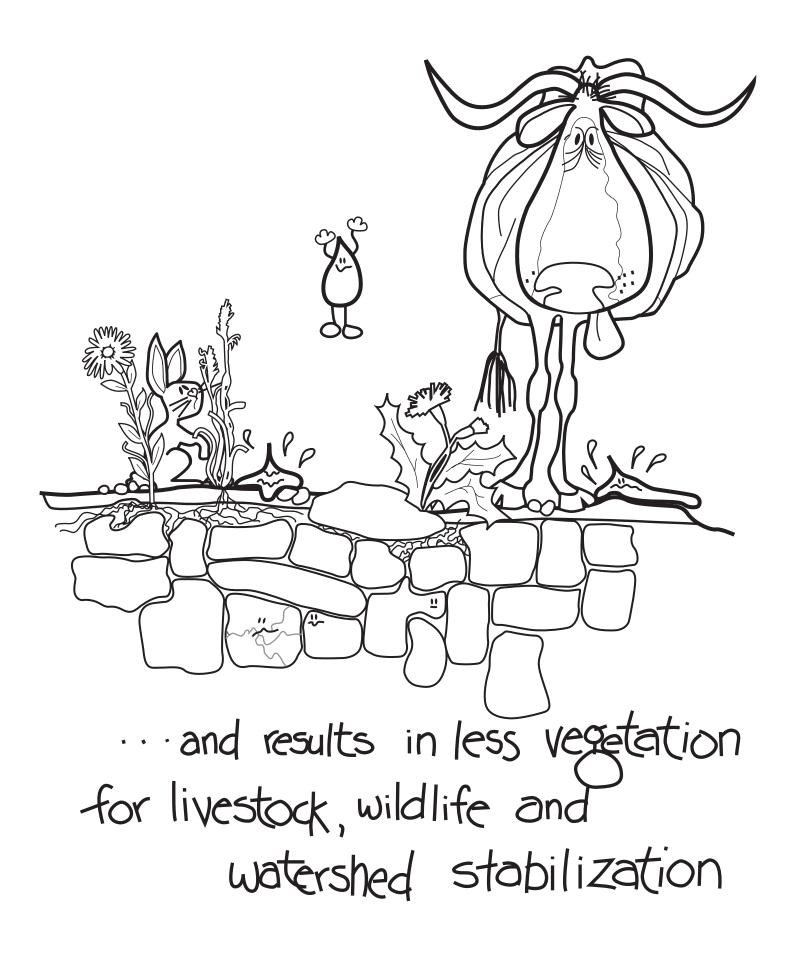
rainfall interception water Quality good infiltration grazing erosion control

Brazing Wildlife Habitat

reduced ground cover, from overgrazing, insect damage and/or drought, results in increased runoff & reduced available soil water.

> reduced plant growth & plant litter increases wind & water erosion

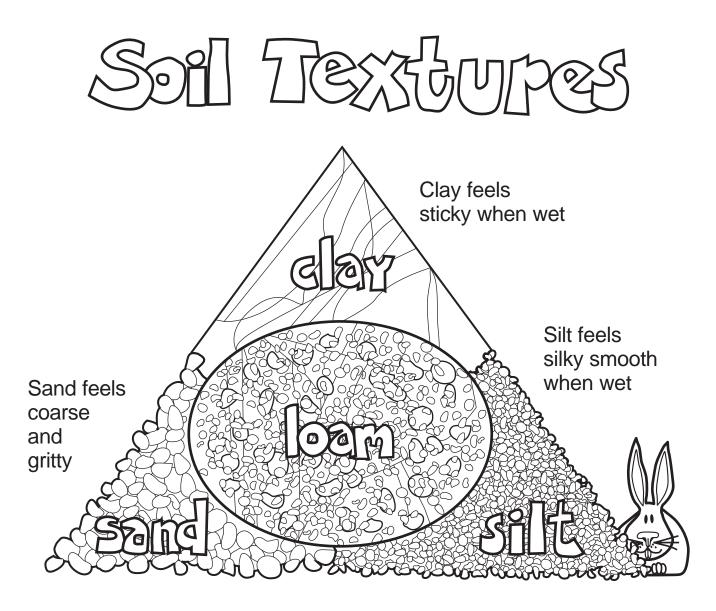






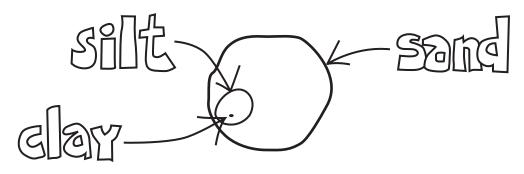
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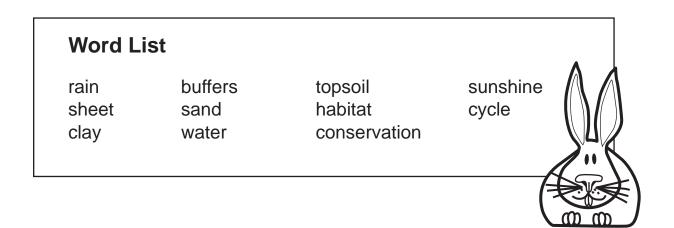
loam is a combination of sand, silt, and clay.

Relative size of sand, silt, and clay particles:



Plants need all kinds of things to grow and be healthy. Fill in the blanks with words from the list below to continue learning about what makes plants healthy.

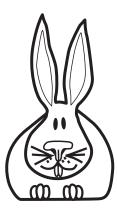
- 1. _____ falls from the sky and helps plants grow.
- 2. Your lawn grass needs ______ to hold the roots.
- 3. There are four basic soil textures, one of them is ______.
- 4. The soil texture with the largest particle size is ______.
- 5. Name one kind of soil erosion ______.
- 6. _____ help reduce soil erosion into streams.
- 7. Three-fourths of the earth is covered by _____.
- 8. _____ is a home for wildlife.
- 9. Protection of our natural resources is called ______.
- 10. Plants need ______ to make their leaves green.
- 11. The water ______ is nature's way of recycling water.



Many things are needed to make a watershed healthy. Find the following words which help describe a healthy watershed. (Hint: some words may be spelled backwards.)

Plants Grow Watershed Soil Water Air Light Temperature Nutrients Climate Rainfall Erosion Wildlife Livestock

W	В	Μ	Ν	Q	R	S	Т	U	V	Х	Ζ	W	Ρ	А	С	D	Е	Н	G	Т
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S	Μ	Т	G	K	G	Е	L	L	А	Μ	J	W	Α	Т	Е	R	С	S	В	М
Ρ	L	Ι	Е	Y	Ζ	Т	U	С	W	J	F	С	Ν	S	0	Ι	L	F	Н	Р
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R	С	L	Ι	М	Α	Т	Е	V	В	Е	L	0	L	0	Ρ	0	Ρ	D	0	Т
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Q	W	Е	Μ	Α	Y	G	Т	F	D	S	L	κ	J	Н	Ν	В	V	С	Х	Ζ



Across

- 2. Nutrients, organic matter, and temperature are some more things that help plants _____.
- 4. Wind, or moving _____, can cause soil erosion.
- 8. Forests are full of _____.
- 9. Soil is also called _____.
- 10. ____, sleet, and snow are all forms of precipitation.
- 11. A _____ or hillside, would be a great place for sledding in the winter.
- 14. Organic matter can be sticks, _____, or mulch on the soil surface.
- 16. A small body of water that flows and meanders is called a _____.
- 18. Erosion reduces water _____.
- 19. _____ are the part of the plant that helps it to get water and nutrients from the soil.
- 21. An animal that lives in the water, such as a trout, is a _____.
- 22. Lack of moisture and severe heat cause a _____.
- 24. Clay is a type of soil that can be very _____ when wet, and very hard when dry.
- 27. When soil is blown or washed away, it is called _____.
- 28. Agriculture is the process of growing crops and _____ to provide food and other products for the world.

Down

- 1. A _____, or burning, is one way to manage vegetation.
- 3. When _____ infiltrates soil, it moves through the soil where it can be taken up by plant roots.
- 5. Crops are grown and livestock are raised on _____.
- 6. Livestock _____ plants that grow in watersheds.
- 7. Plant roots increase _____ stability by binding it together.
- 9. Some animals, like gophers, _____ burrows in the soil for their homes.
- 10. _____ break down slowly over time to form soil.
- 12. Rain, sun, and good soil are needed for _____ to grow.
- 13. Soil _____ is based on the types of particles in the soil and can be determined by the feel of the soil.
- 15. Farmers plant _____ in the soil that grow into crops.
- 17. Wildlife's homes can also be called their _____.
- 20. Nitrogen, phosphorous, and potassium are just some of the _____ plants need to grow.
- 23. _____ like rabbits, elk, and frogs can all share the habitat found in a watershed.
- 25. Farmers grow and harvest _____ to feed the world.
- 26. Where people build _____ depends on soil factors such as texture, structure, and drainage.

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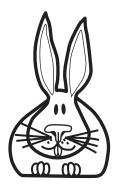
Complete each blank by matching the number to the letter to figure out the message below:

1	2	3	4	5	6	7	8	9
А	В	С	D	Е	F	G	Н	Ι

10	11	12	13	14	15	16	17	18
J	K	L	М	Ν	0	Р	Q	R

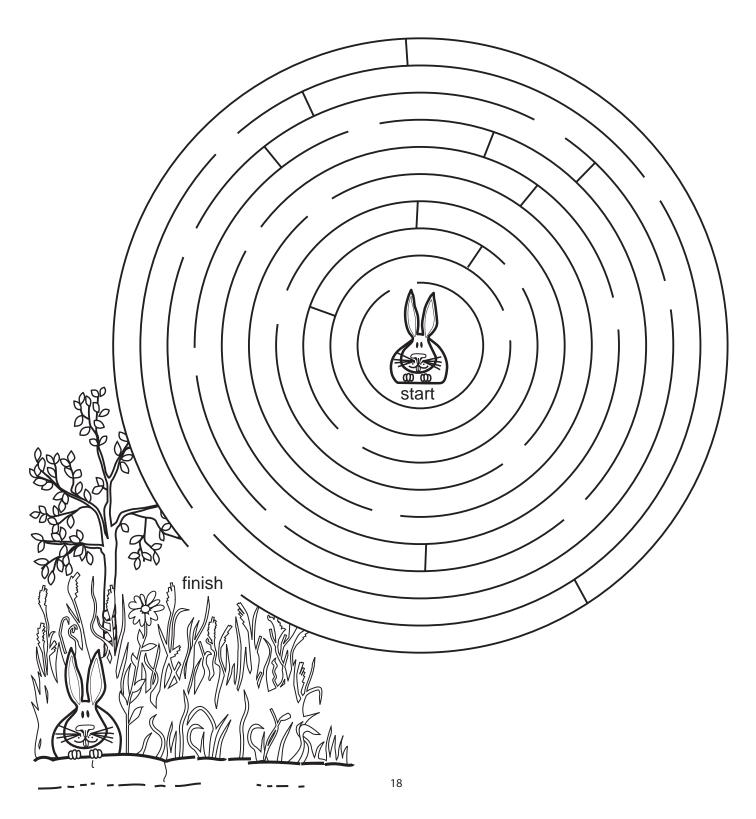
19	20	21	22	23	24	25	26
S	Т	U	V	W	Х	Y	Z

19	15	9	12		9	19	20	8	5
6	15	21	14	4	1	20	9	15	14
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We have learned a lot throughout this activity book about how conserving our natural resources makes a healthy watershed and makes my home a great place to live.

Help me make my way through this maze to my healthy watershed.



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Answer Page

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10. Plants need sunshine to make their leaves green.

Three-fourths of the earth is covered by water

Buffers help reduce soil erosion into streams.

The soil texture with the largest particle size is sand

 There are four basic soil textures, one of them is <u>clay</u>. 2. Your lawn grass needs topsoil to hold the roots. Rain _____falls from the sky and helps plants grow.

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Habitat is a home for wildlife.

5. Name one kind of soil erosion: Sheet

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11. The water cycle

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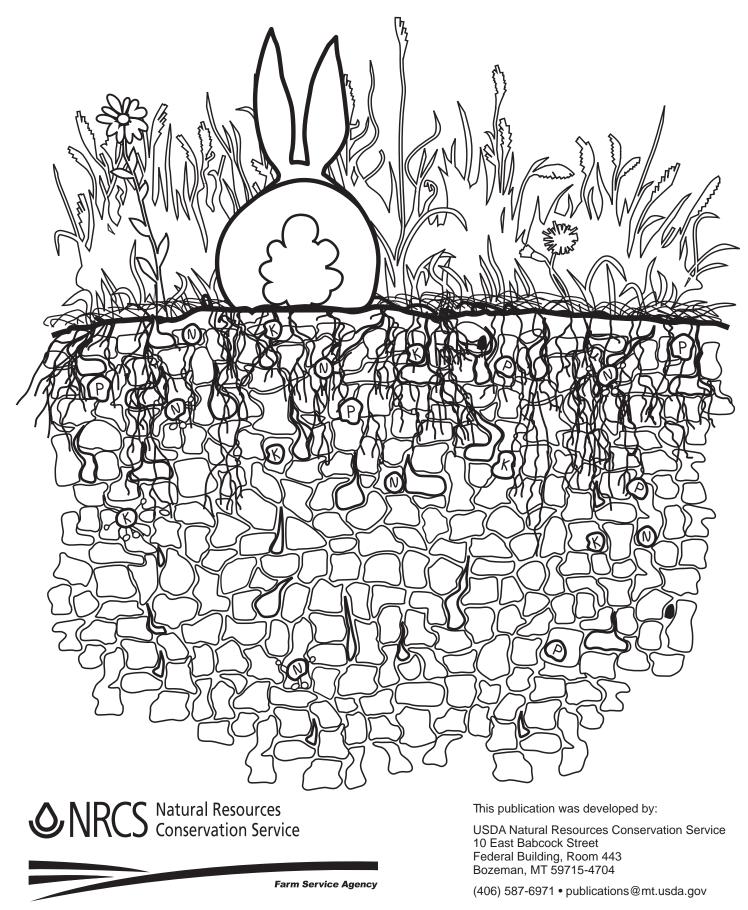
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Protection our natural resources is called conservation.

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