



MIGHTY MINI MICROBE'S TALE

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USDA

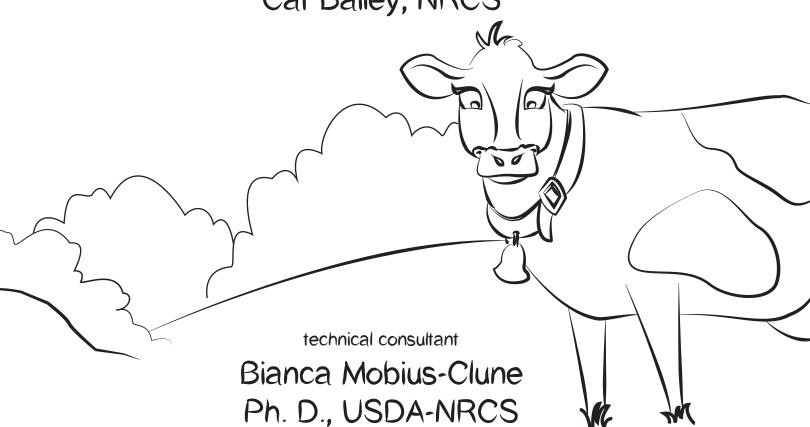
Natural Resources Conservation Service

Story by

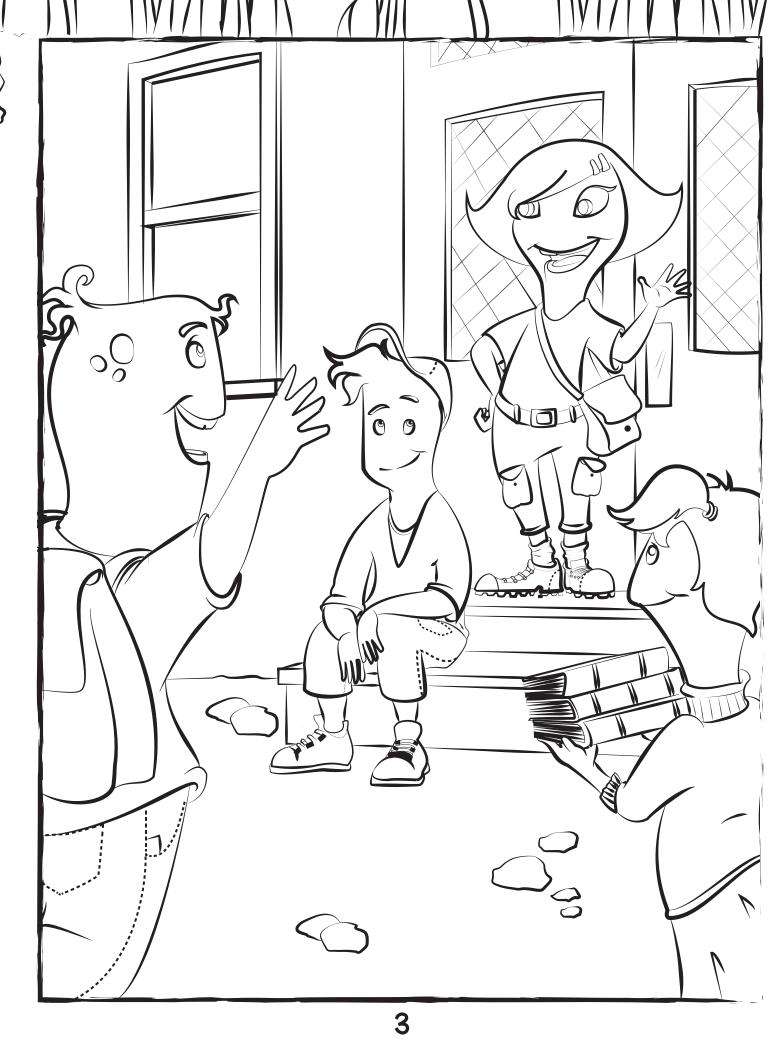
Ron Nichols, NRCS

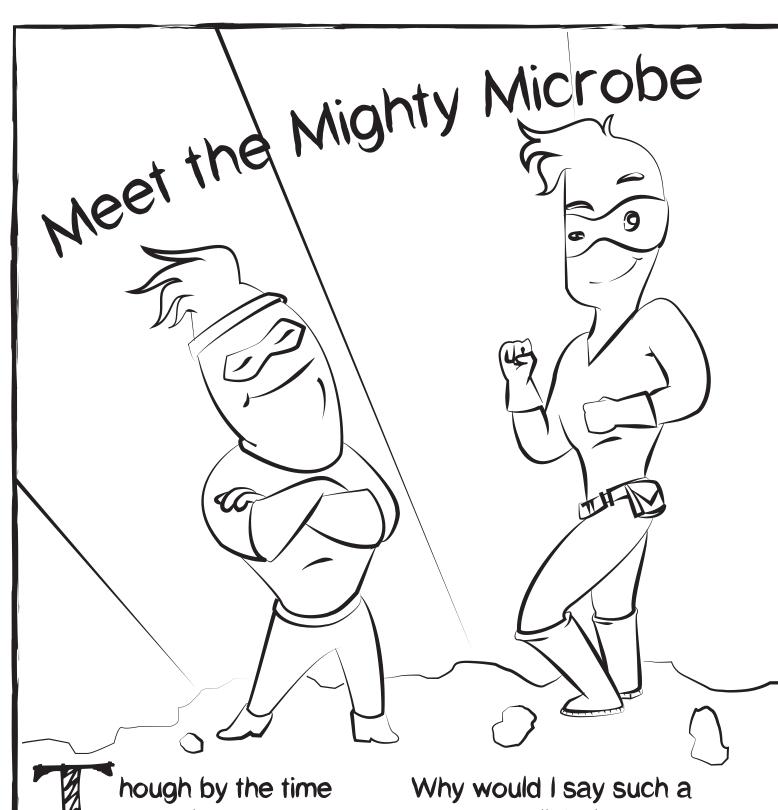
Illustrations by

Cat Bailey, NRCS



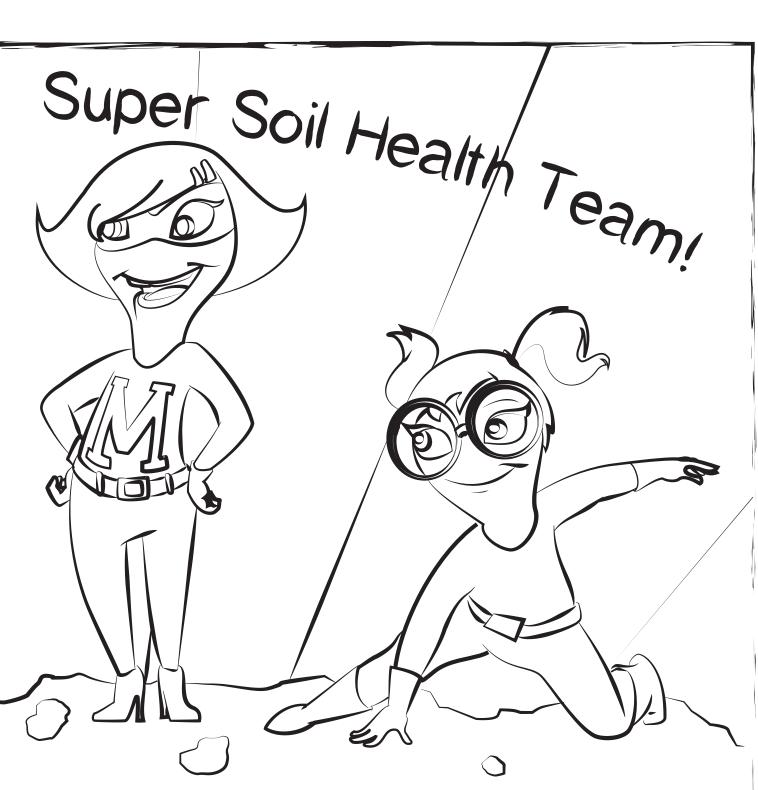






hough by the time this tale is through, you may want to call me "Mighty Mini" instead.

Why would I say such a thing? Well, believe it or not, without us, you probably wouldn't even be alive.



Don't believe me? Let me explain by telling you some of the mighty amazing

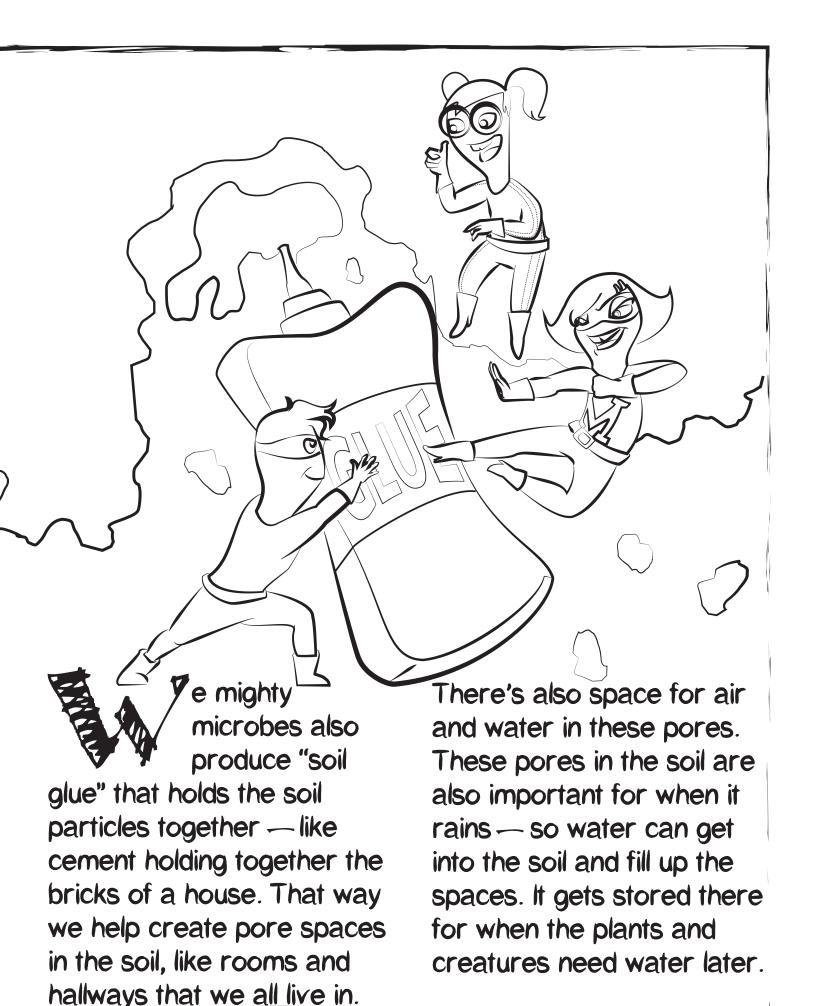
things we soil microbes do to keep you healthy and alive. We feed the plants.... that feed you! CARBON CRUNCH very day, we eat the carbon that plants put in the ground and then give those plants many of the nutrients they need to grow big and strong and produce lots of healthy things for YOU to eat.



lants love what we do for them so much that some actually ooze yummy things through their

roots for us to eat and to keep us near their roots where we can give them lots of good things in return.







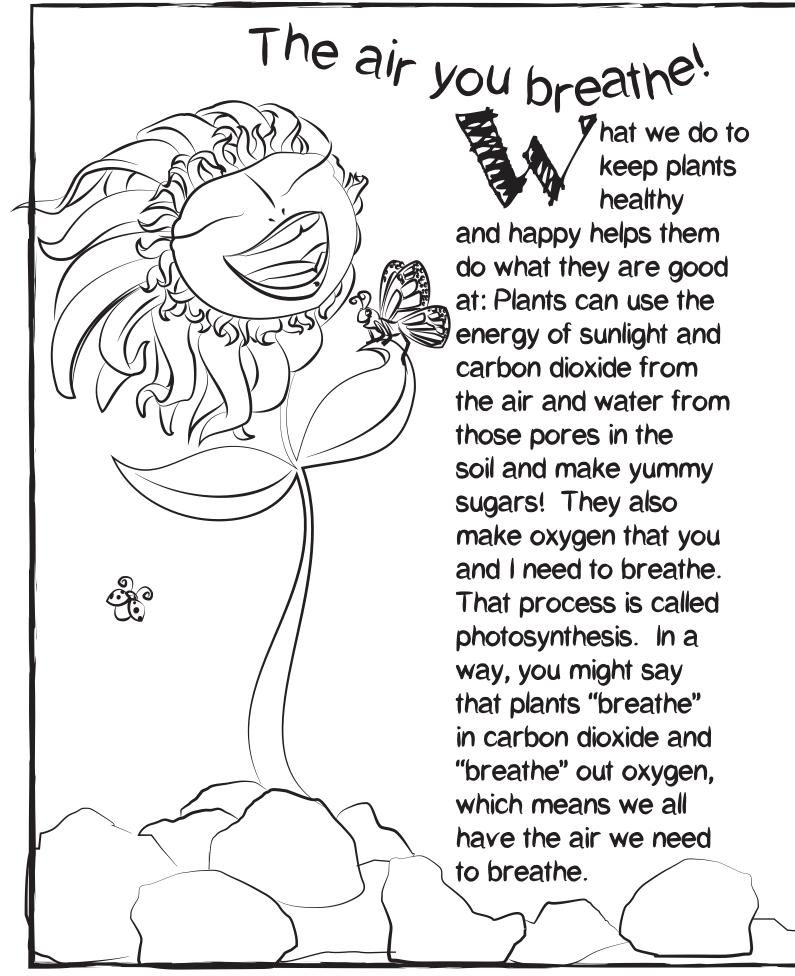
e get a lot of our food from plant roots. So by

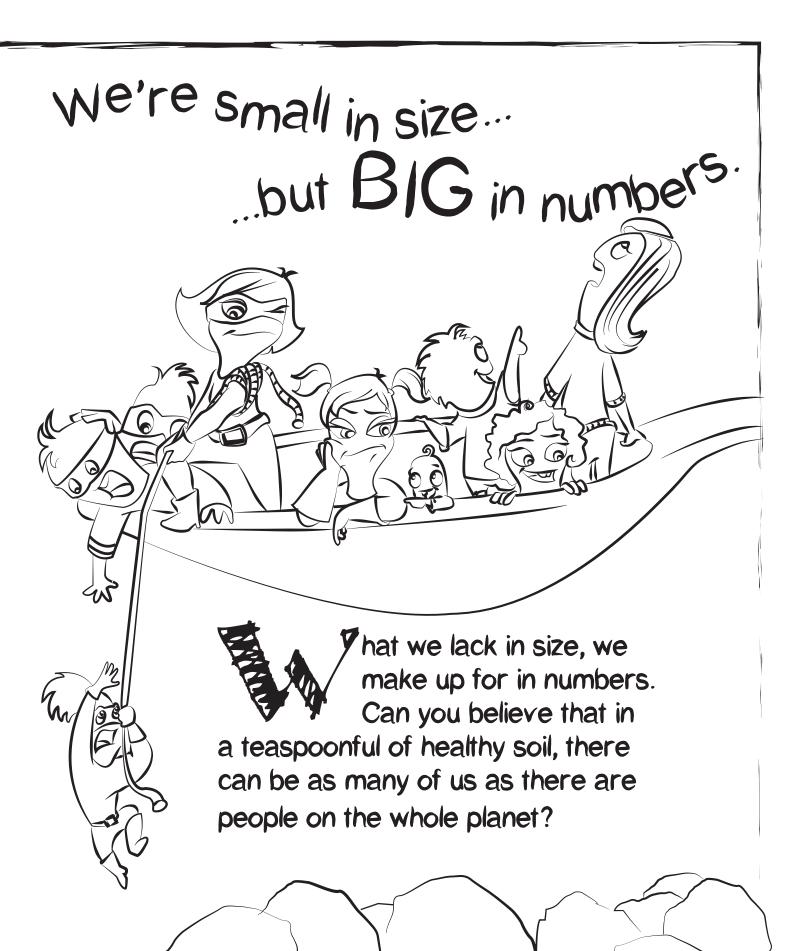
planting cover crops (plants that aren't usually harvested), soil health farmers make sure we get fed throughout the year. And the roots from these cover crops go deep into the soil to create more spaces for water to flow into and be stored when the rain comes, too.

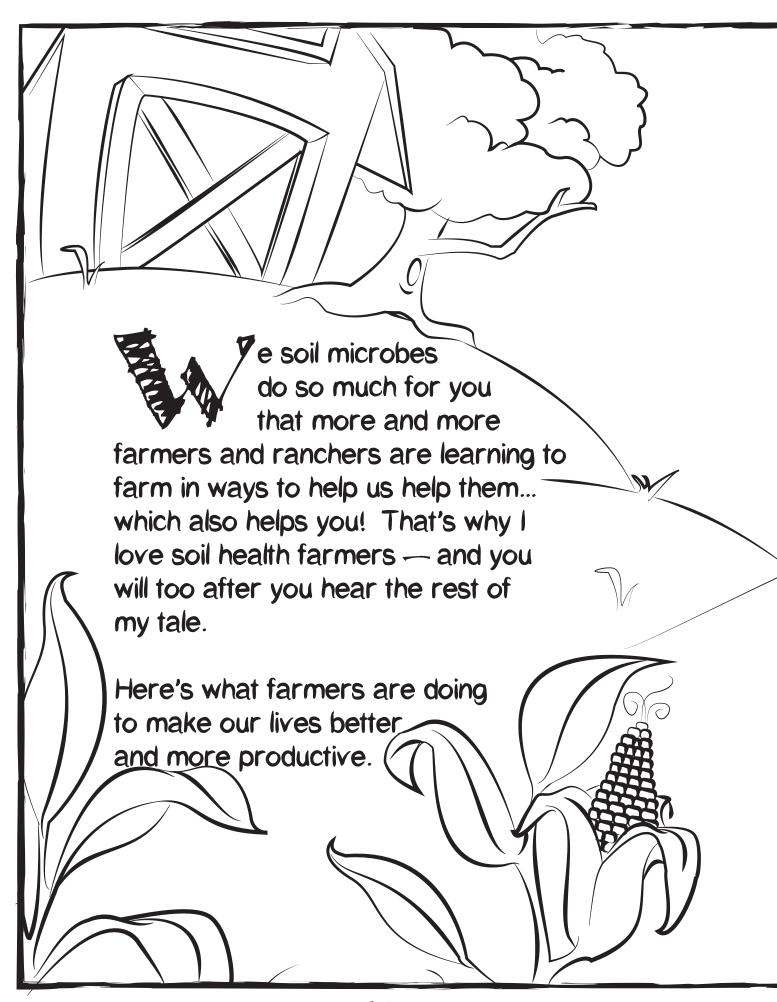


oil health farmers keep
the ground covered
all the time, which
means our underground
world is protected from
the harsh rays of the sun.
These covers keep our

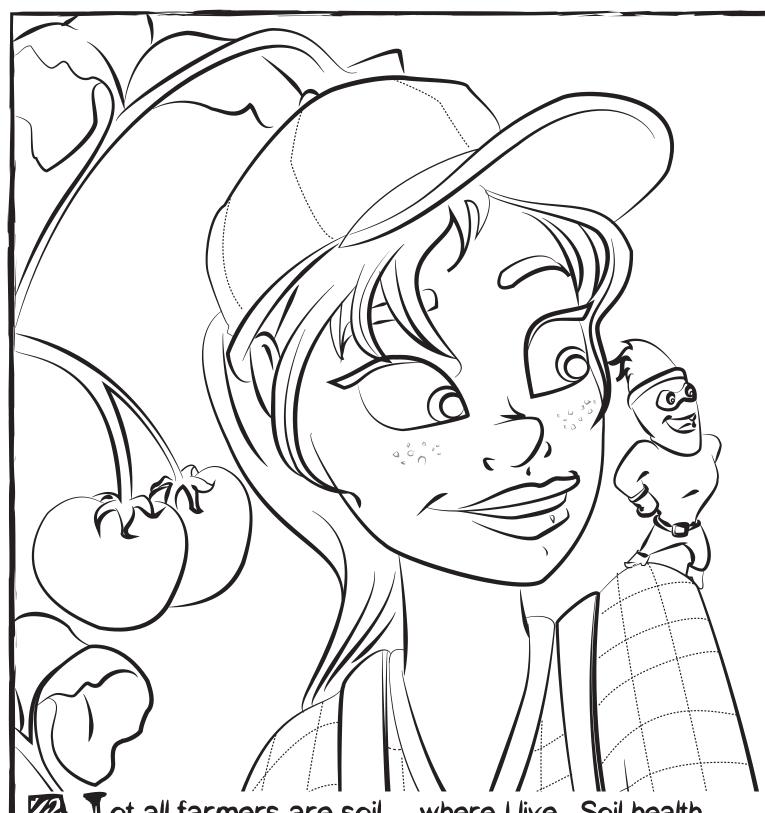
home just the way we like it — cool and moist. Oh, did I mention that cover crops shelter our homes and keep the wind and rain from carrying off the soil?





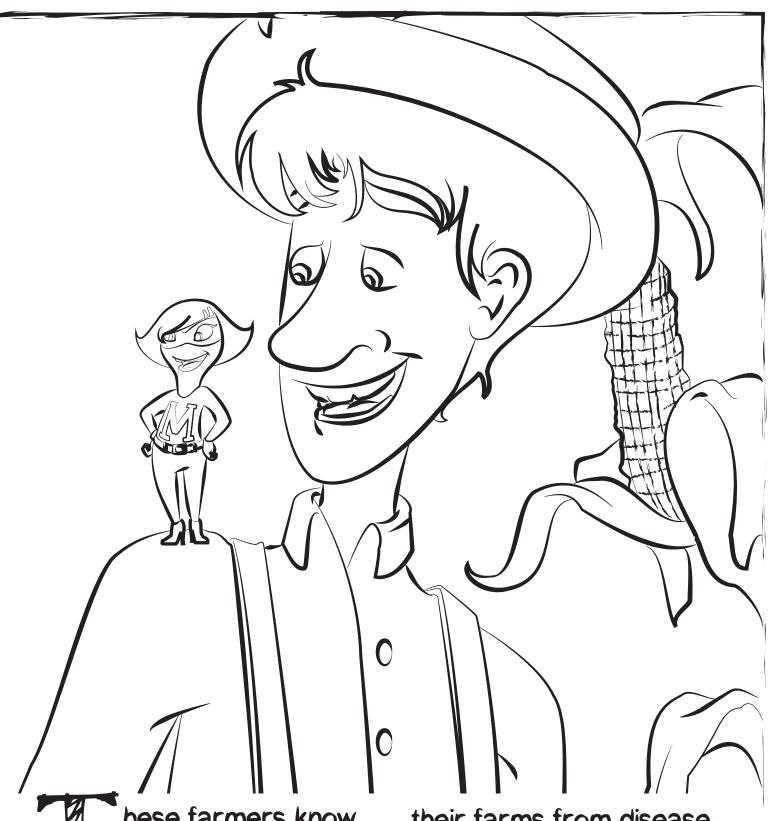






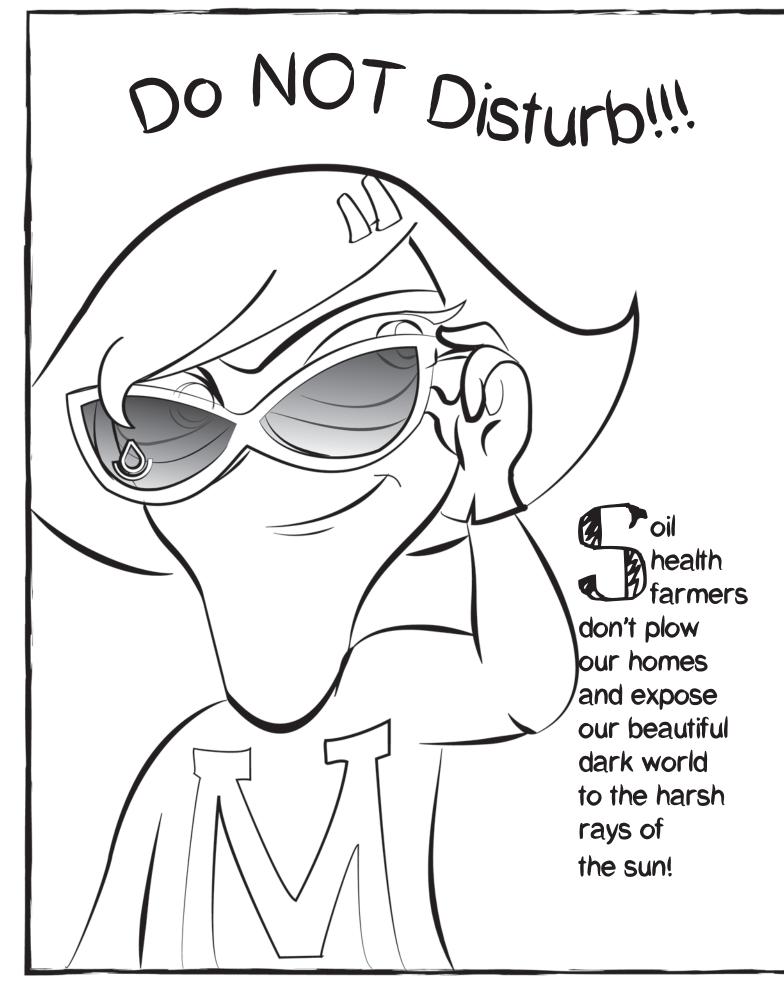
health farmers are soil health farmers, but more and more of them are farming to improve soil health—and the place

where I live. Soil health farmers don't treat us like dirt. They care for us by farming in ways that help us thrive.



hese farmers know that we can help them make their farms better and help protect

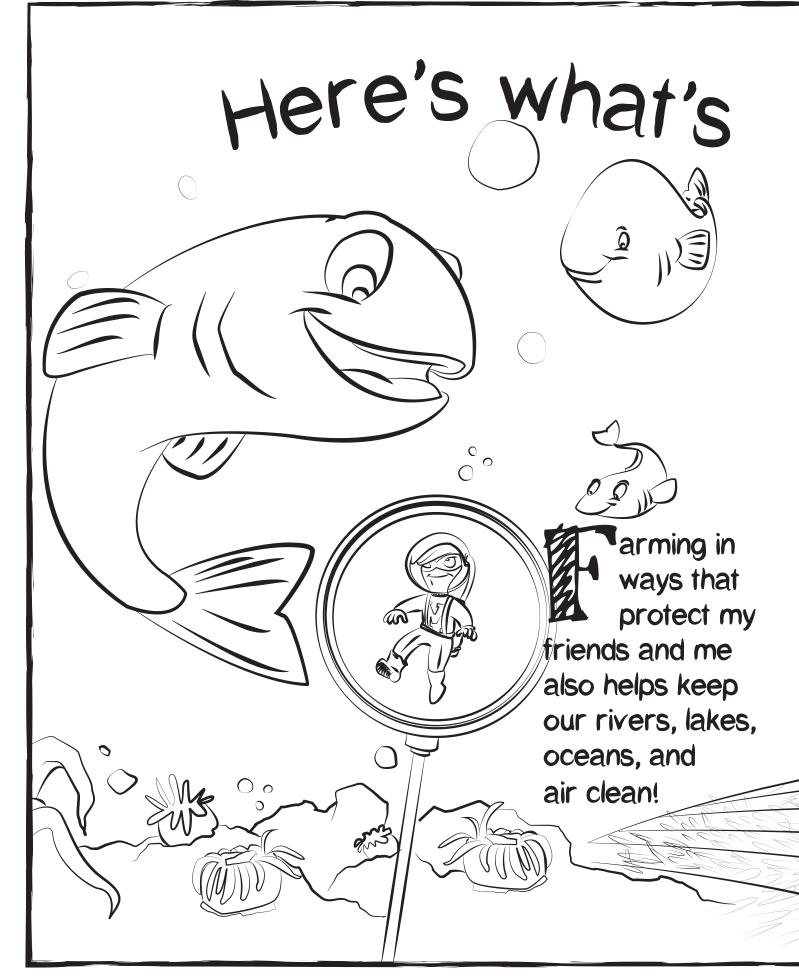
their farms from disease, droughts, and floods. So of course they take care of us, wouldn't you?





hey often use animals and other carbon sources to feed us. So there are different plants and

animals in both our worlds — above and below the ground — and we get a tasty, healthy, balanced diet.









Note from the USDA Natural Resources Conservation Service...

e hope you enjoyed reading and learning about Mighty Mini Microbe's underground adventures as you colored. Although Mini and her band of

superheroes are fictional illustrations, the story about what soil microbes do for us, and why we're working with farmers to protect them, is based on science.

For decades we've been learning about all of the wonderful things soil microbes do for our plants and for our planet. Today, we know how very important they are for us, and we also know how to help them thrive as farmers grow the food we need.

But there's still a lot to learn. Perhaps one day you will become a farmer, a conservationist, or a scientist who will help discover even more soil microbes and uncover other amazing things that our underground superheroes do for the soil — and for all of us.



