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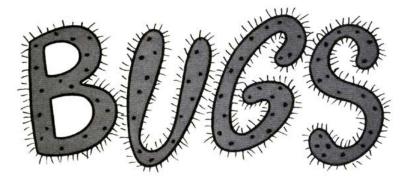
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THE FIRST BOOK OF



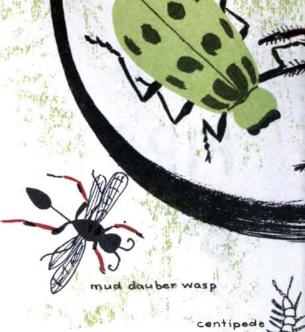
WRITTEN & ILLUSTRATED BY

MARGARET WILLIAMSON

about



Not all the tiny creatures you see creeping and crawling and flying are truly bugs. When somebody says, "Ooh, look at the bug!" he might be pointing at a beetle with six legs, or a spider with eight legs, or a centipede

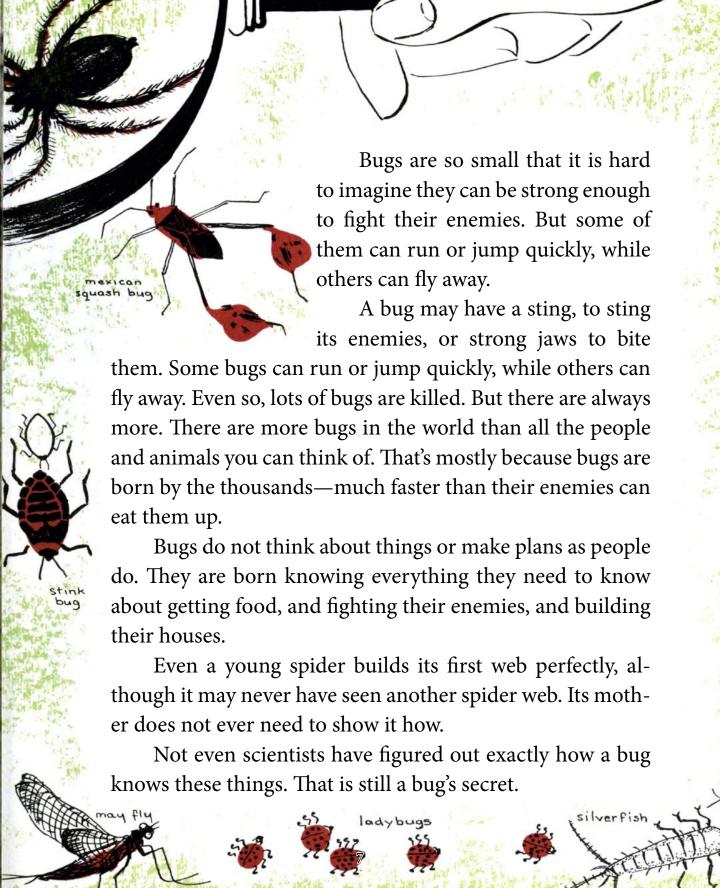


with many legs. Or he might be pointing at a stink bug, which belongs to the only family scientists call bugs. But in this book, let's call them all bugs to make it easier, and, often where a bug is magnified, the outline beside it shows you about how big it really is.

If you watch a bug as it goes along about its business, you can find out what a bug's world is like. You can see what kind of legs and wings and feelers it has and how they work, and you can hear the noises it makes.

If you wait and watch long enough, you may even see it creep out of the hard, stiff suit of armor that all bugs wear, and walk off in the new and bigger suit that has been growing, all wrinkled, underneath the old one.

If you wait still longer, you might see how a bug's young are born and how they grow up. Perhaps you may even find out who its enemies are.



Sometimes people get angry at bugs. Clothes moths chew up their swimming suits and mittens, cockroaches crawl over dishes in the sink, potato bugs eat holes in potato vines, Japanese beetles ruin the prettiest roses and termites chew

beetles ruin the prettiest roses and termites chew wooden stairs in houses.

But bugs are valuable, too. After all, the honey for your waffles comes from bees, and silk for your dresses from silkworms, and the shellac that makes your furniture shine comes from scale bugs.

Even those same termites who tunnel through

wooden stairs in our houses, eat old dead wood in other places where it is not wanted and make it part of the earth again. In that way, they save people the trouble of burning or burying lots of rubbish, and they make room for new animals and plants as well.



No bug really intends to be harmful or useful. It just lives its own life. Now you're going to see how some bugs live, what they eat, where they sleep, how long they live, and how they have fun.

termites tunneling through wood

CRICKETS and their COUSINS

Best of all, a cricket likes to sit in the sun and make music. If he's frightened, he'll stop playing, and jump like a jumping jack.

A cricket has a fiddle and a bow hidden in his two top wings. The top of each wing has ridges on it and the bottom of each wing has a row of small teeth like a file. To make his music, he crosses his wings one over the other and saws them back and forth.

A cricket can fool you. When he plays loudly, he sounds as if he were right beside you. But he can play very softly to make himself sound far away.

In the springtime, Mr. Cricket plays a love song to a lady cricket, who listens carefully with her knees. That's where crickets' ears are. She can't play music because she has no fiddle in her wings. Besides, after a while she is busy laying dozens of eggs in holes which she digs in the earth with her sharp pointed shovel. Later, she dies, but the young crickets can get along perfectly well from the minute they are born, even while they are in the egg.

The sun bakes the earth that covers the eggs and keeps them warm. When the young crickets have grown too big for the eggs, they push with their heads till the lids on their eggs fly open, and out they pop. They look just like grown-up crickets, but they are much smaller, and have no wings. They are curious, and push their way out of the earth to go adventuring. If they are lucky, and are not gobbled up by an ant or a lizard, crickets wander all summer long, hiding under leaves and stones, and usually waiting until night to hunt for food.

A cricket eats so much that soon its hard black suit, which cannot grow at all, splits open down the back and it creeps out in its new and bigger suit. Before the summer is over and a cricket is full-sized, it grows out of four or five suits.

In the fall, it digs itself a house in the earth. It digs and scrapes and sweeps and rakes with its legs, and lifts pebbles out of the