te "Vegetable Mold and Earth-Worms," by 6 he in Charles Darwin, is not, as the title would imal oi research and experiment. re RS

ply, a book for specialists alone. It is written in the great naturalist's clear style, and is extraordinary as an evidence of his patience in His studies on this subject were began as early as 1837, when he read a paper on the formation of mold be ore the Geological Society in Loadon, and in this book he mentions incidentally that in one o. his experiments he spread a layer of chalk h over a patch in a field in 1842, and waited until 1871 to learn the result. The early chapters are given up to a of the habits of earth-worms description at ot er and tain many curious facts. Worms the dark, from habit still come the night and withdraw into their burrows during the day. Though they are Linse d entirely deat, they are extremely sensitive to vibrations of the earth in which their bur-rows are made. This was proved by putting two pots of earth with worm-burrows in them on a piano. Single notes struck in either bas or treole sent the animals into their holes torthwith. The worms kept in confinement found out little bits of tood buried near the d mouths of their burrows apparently by means of a sense of smell. They like raw tat better than anything else to eat, and next to that swallow earth in enormous quantities in disging their holes, coming to the surface fail first to eject it in the wellknown heaps called castings. They also i swallow it as food and extract the digestible matter from it. They seize objects either by taking hold of them between their upper and

under lips or at their edges, or by using their mouths as suckers. One o the most curious of their habits is that of protecting the entries of their burrows. They often pile little heaps of stones over these. Their strength is extraordinary, for one stone dragged over t gravel walk to the mouth of a burrow weighed The concluding chapters are devoted to the influence of worms in changing the earth's urface, and will be found very interesting. Thus, what Mr. Darwin says of the gradual alteration of fields by the action of worins is novel to any one but a specialist or a farmer, and especially of the disappearance or stones and other objects ects from pacture land. He describes how plowed in 1841, showed very scanty veget tion, and was thickly covered with small and

large flints, some of them half the size of a child's head. The smaller stones disappeared scon, and a ter a time all the larger ones, till when thirty years had clapsed, a horse could gallop over the compact turi "from one end of the field to another without striking a ringle stone with his shoes." This burying work, though contributed to slightly by anta and moles, is almost entirely per ormed by the sorms; they swallow the earth below the tones and eject it again as castings above hem. In the same way they have assisted areely in the preservation of the monuments o antiquity dug up by the modern arche

mals which have played so important a part in the history of the world as have these lowly organized creatures." (New York: D. Appleton & Co. For sale by James T. White