The World Garden of Hendrikus Schraven

by July Hays, Garden Designer

things need each other to continue could no longer live either. All living could somehow be removed, we that live on the surface of our skins organisms that live in the soil did not just the same way, if the microbes human beings could not survive. In necessary nutrients, animal life and do their job of helping plants get of soil bacteria and microrrhizae, the sive Japanese maple with multiple his client's home, under an imprestiniest of living organisms. "If micro world view. He explains it in terms Hendrikus Schraven talks about his trunks spread out like a fan, Standing in the serene courtyard of



Hendrikus Schraven

As gardeners know, good soil is full of life. As we grub about in the dirt, we observe that the best plant growth takes place where the soil is soft, moist, full of humus (decomposed organic matter) and earthworms. When we try to plant in compacted or sandy soil, plants grow slowly and tend to lose their lower leaves. We have been told that the difference between rich soil and poor soil is a difference in humus content.

This explanation, while true, only scratches the surface. Hendrikus explains that humus supports soil bacteria and fungi (microrrhizae), which actually coat the roots of plants and make nutrients available to them. Soil bacteria and microrrhizae are eaten by larger but still microscopic organisms like nematodes and protozoa, which are then consumed by earthworms. The earthworm, then, is an indicator of how rich the soil is in the basic little life forms upon which all the rest of life depends.

This concept is called the soil foodweb. It has been researched for many years by scientists, most prominently Dr. Elaine Ingham of Oregon State University. Hendrikus intuitively came to the same conclusions as Dr. Ingham about the living nature of the soil as a boy on his father's farm in Holland. These days,

Hendrikus often speaks at the same conferences as Dr. Ingham. In 1999, he traveled to China with a group of soil scientists to advise on the problem of large tracts of land that had become unproductive from over farming with chemical fertilizers. He says the soil was "dead," with virtually no soil foodweb. The prognosis for restoration was not good: "The Chinese felt they could not take this land out of production for even one year because of their huge population to feed."

slopes, has great potential too. sure that the right kinds of microbes slide disasters on clients' properties storm conditions in the lab, but more on what he calls "Essential Soil." It with large amounts of oxygen to encompany. The compost tea is made gardens which he installs and on here in the Northwest. Hendrikus has been proven under 50-year rain-Hendrikus has applied for a patent soil mixture which stays put on steep are in it. Another soil innovation, a gardens cared for by his maintenance brewers. It is sprayed on both new specially brewed compost tea, which soil foodweb. To achieve this, he uses wants to make sure it has a healthy one part of the landscaper's task. He creasing the humus in the soil is only importantly it has been proven on he makes in four large truck-mounted To Hendrikus Schraven's mind, in-

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Hendrikus Schraven, continued

has started another company to market this soil mix, which is blown onto the site with the compost tea mixed in as it leaves the barrel of the blower. In this way, the soil mix begins to function as a foodweb immediately.

cides and pesticides in our living about it. We would not spray herbiwhole world our living room." rooms, and we should consider the on our belief and not simply talk future for human beings, we must act consequences. If we believe there is a thought provoking double negative. ways that will ruin our lives. "Nature can destroy the soil foodweb, he fears gardening and agricultural practices "Our disrèspect for the earth will have cannot be not balanced," he says in a the balance of nature will shift in Understanding how quickly modern natural resources for short-term gain. wreak ecological havoc and use up the choices made by world leaders to skin. He is angered and distressed by living being, and the soil layer is its rally to the belief that the Earth is a Hendrikus' world view leads natu-

Next month, July Hayes will write about the beautiful gardens Hendrikus creates. July is an experienced garden designer and can be reached at 206-240-6115.