



Seedling diseases of sugar beets and their relation to root-rot and crown-rot; Histological relations of sugar-beet seedlings and *Phoma betae* ; ... fungus parasitic on sugar beets and radishes

Howard Austin Edson

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1915 Excerpt: ... the cause of a disease of radishes. The first cultures of the fungus temporarily mistaken for *A. laevis* were secured from damped-off beet seedlings grown in soil which had previously produced the black-root disease of the radish, like those shown in Plate XXIV, figure 2. It was later obtained from soils at Madison, and from Kenosha, Wis., as well as from seedlings damping-off in soil which had been infected with fragments of a diseased radish obtained from Illinois. The causal relation of the organism to the radish disease as well as to damping-off of sugar-beet seedlings was confirmed repeatedly by inoculation experiments, and it was at first thought possible that the discrepancies between this fungus and published descriptions of *A. laevis* might be the result of response to the changed environmental conditions of culture or to variations within the species, since it is well known from the study of many investigators that the Saprolegniaceae are exceedingly variable. Through the courtesy of the Kaiserliche Biologische Anstalt at Dahlem, Germany, and Dr. Leo Peters, of that institution, the author was permitted to isolate *Aphanomyces* from the experimental fields of the Anstalt. An organism was secured from damped-off seedlings, which Dr. Peters identified as the organism with which he had worked and which conformed in every respect to De Bary's description of *A. laevis*. It was secured in pure culture, and its pathogenicity to beet seedlings was confirmed by inoculation experiments. Unfortunately the culture was lost before it had been tested upon the radish and thereafter could not be secured again. The morphological studies, however, prove that the American fungus with which we have been working is not *A. laevis*, but a hitherto undescribed organism. Morph...

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