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EFFECT OF ROOT DIFFUSATES OF SOME WEEDS IN CORN FIELDS ON THE HATCHABILITY OF CORN CYST NEMATODE, *HETERODERA ZEAE*

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Abstract

Effects of root diffusates of 22 summer weeds belonging 15 plant families and 12 winter weeds from 8 plant families on the hatchability of the corn cyst nematode (CCN), *Heterodera zeae* were compared with the root diffusates of corn cv. Giza 2 Root diffusates of *Rumex dentatus* failed to stimulate the nematode cysts whereas all tested weed root diffusates successfully stimulated the hatchability of the cysts. However CRD were found most stimulatory. Of the summer weeds, root diffusates from *Echinochloa colonum* was found most effective followed by *Chenopodium album, Malva parviflora* and *Portulaca oleracea* with low effects produced by *Beta vulgaris, Convolvulus arvensis* and *Solanum nigrum*. Among the winter weeds, root diffusates of *Melilotus indica* was most effective followed by *Lolium multiflorum* and *Brassica kaber*whereas, *Rumex dentatus* failed to stimulate the hatchability of the nematode cysts.