

### XXIII. A SURVEY OF THE WATER MOLDS OCCURRING IN THE SOILS OF NORTH CAROLINA, WISCONSIN AND OKLAHOMA

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During the autumn of 1924 the writer found for the first time that many of the typically aquatic fungi occurred in the soils. In the 200 collections of soil from Chapel Hill, N. C., the following molds appeared the number of times named, two to twelve inches depth in the various soils:

*Saprolegnia ferax*, one time; *Isoachlya eccentrica*, 5 times; *Achlya caroliniana*, 27 times; *A. flagellata*, 17 times; *A. hypogyna*, once; *A. racemosa*, once; *Thraustotheca clavata*, 6 times; *Dictyuchus sterile*, twice; *Aphanomyces laevia*, once; *A. stellatus*, 3 times; *Olpidiopsis* species, twice; *Allomyces arbuscula*, twice; *Pythium deBaryanum*, 38 times; *P. monospermum*, 30 times; *Leptolegnia subterranea* (N. Sp.), 11 times; *Pythiopsis intermedia* (N. Sp.), 3 times; *Geolegnia inflata* (N. genus and N. Sp.), 3 times; *Geolegnia septisporangia* (N. genus and species), twice.

During the previous summer, while at the University of Wisconsin, the following species were found in two hundred collections, under about the same conditions as at Chapel Hill:

*Saprolegnia ferax*, 4 times; *Achlya* species, 4 times; *Dictyuchus sterile*, 3 times; *Allomyces arbuscula*, 3 times; *Olpidiopsis*, 2 times; *Geolegnia inflata*, 35 times; *G. Septisporangia*, 12 times; *Pythium deBaryanum*, 12 times; *P. proliferum*, 9 times; unidentified *Pythiums*, 23 times; *Thraustotheca* (N. Sp.), 10 times.

Since September 1, 1296, in Oklahoma (Shawnee, O. B. U.) the following species have been found in 26 collections:

*Saprolegnia ferax*, twice; *Achlya* species, once; *Geolegnia inflata*, 7 times; *G. septisporangia*, once; *Thraustotheca* (New Wisconsin form), two times.