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## Notes on the Behavior of Red Foxes in a Large Enclosure

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Notes on Fleshy Fungi in Iowa. VI.<sup>1</sup>KENNETH C. MILLER, MICHAEL D. WOODWARD, LOIS H. TIFFANY, and HAROLD S. McNABB, JR.<sup>2</sup>

KENNETH C. MILLER, MICHAEL D. WOODWARD, LOIS H. TIFFANY, & HAROLD S. McNABB, JR. Notes on Fleshy Fungi in Iowa. *Proc. Iowa Acad. Sci.*, 78(1): 24, 1971.

SYNOPSIS. During the summer and fall of 1970, 211 sporocarps of fleshy fungi were collected. In the collection were 14 species not previously reported for the state of Iowa. *Cortinarius brun-*

*neus*, *C. coloratus*, *C. cylindripes*, *C. pulchrifolius*, *Hygrophorus marginatus*, *Psallioia comtula*, *P. silvatica*, *Psilocybe agrariella*, *Russula cyanoxantha*, *R. puellaris*, *R. vesca*, *R. xerampelina*, *Tricholoma intermedium*, and *T. terreolens*.

INDEX DESCRIPTORS: Fleshy fungi; *Cortinarius*; *Hygrophorus*; *Psallioia*; *Psilocybe*; *Russula*; *Tricholoma*; Iowa.

Collections of fleshy fungi were continued during the summer and fall of 1970 from the six white-oak sites in Iowa (1, 2, 3, 4, 5). From these 1970 collections containing 211 individuals, 14 species not previously reported for the state of Iowa were noted (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11). Kauffman (12) was the taxonomic authority for all newly reported species.

*Cortinarius brunneus* Fr. Several specimens were collected at site 5 on 25 June. The variously aged specimens exhibited the characteristic transient veil.

*Cortinarius coloratus* Pk. Abundant gregarious sporocarps were collected from site 3 on 23 August. These prominent sporocarps, with shiny coloration and broad bases, varied in habitat from open grassy areas to deep duff.

*Cortinarius cylindripes* Kauff. Several scattered specimens were acquired from site 3 on 26 September. These sporophores ranged in age from button to degenerate; their large size, adnate veil remnants, purplish tints and degree of viscosity, were diagnostic.

*Cortinarius pulchrifolius* Pk. Several scattered specimens were collected from site 3 on 23 August. Sporocarps were fully mature so that juvenile characters could not be noted.

*Hygrophorus marginatus* Pk. A solitary specimen was collected at site 3 on 23 August. The sporocarp was old, but its size, color, and fragility were unmistakable.

*Psallioia comtula* Fr. A solitary specimen was collected from site 2 on 26 June. Conditions were very hot and dry at collection time. Although the description of the specimen was closest to the ascribed species, collection conditions caused concern in final identification.

*Psallioia silvatica* Fr. A solitary specimen came from site 1 on 28 August and another solitary one from site 6 on 28 September. Both specimens were mature, but not degenerate.

*Psilocybe agrariella* Atk. Several scattered specimens were collected from site 5 on 28 September. The specimens were

in deep duff and, possibly, therefore were associated as litter dwellers.

*Russula cyanoxantha* Fr. Two specimens were collected from site 3 on 26 June. Both sporocarps were large, and the color varied among the purplish hues.

*Russula puellaris* Fr. A solitary sporocarp was collected from site 5 on 28 September. The mature specimen showed the yellow tints in the stem that Kauffman considers characteristic of type specimen.

*Russula vesca* Fr. A solitary specimen was collected from site 3 on 23 August. Specimen was mature, and the character of the cuticle not reaching the margin of the pileus was noted.

*Russula xerampelina* Fr. Several specimens were collected at site 3 on 26 June. These specimens approached *R. squalida* Pk., but their echinulate spores were distinctive.

*Tricholoma intermedium* Pk. A solitary specimen was collected at site 5 on 28 September. *T. intermedium* is a form intermediate between *T. equestra* Fr. and *T. sejunctum* Fr., distinguished only by the very crowded gills of *T. intermedium*. Kauffman feels that it could be an extreme variation of *T. sejunctum*.

*Tricholoma terreolens* Pk. Several specimens were collected at site 3 on 26 September. Specimens were large and had a distinctly unpleasant odor. The odor separates this species from *T. terriferum* Pk.

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