

## SECTION A, BIOLOGICAL SCIENCES

### Subsection Botany

### *Monotropa uniflora* L., Recent Collection

### Sites in Oklahoma

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A limited search of literature on flora of Oklahoma yields four sites for the collection of *Monotropa uniflora* L., by Barclay from (1) Tulsa County and (2) LeFlore County, by Little from (3) McCurtain County, and by Constance and John Taylor from (4) Bryan County. It has been observed and collected for classroom use but not deposited in herbaria from sites in Cherokee County by Denver Bedwell. The range of *Monotropa uniflora* is peculiar, showing that this species occurs over a very great range in restricted habitats. According to Gleason in *The New Britton and Brown Illustrated Flora* the range is "rich woods and leaf mold from Newfoundland to Washington, south to Florida, California, and Central America, also in Eastern Asia." Fernald in *Gray's Manual of Botany* gives as "woodland humus, Newfoundland to Southeastern Alaska, south beyond our range, Mexico, and Asia." In Fernald we find the notation "June to September"; in Gleason, "June to August". Rydberg is more specific about the Asian range stating "Japan to India", and Johnson (*Taxonomy of the Flowering Plants*) makes it "Japan to the Himalayas". In most cases the description is "white" or "white to pink or flesh-colored."

On 28, 29 and 31 1966 and through the middle of October, 1967, I found and collected a few specimens on steep slopes over the Illinois River about five miles northeast of Tahlequah. They were later in the season than the descriptions indicate, and the first clump had very definite bluish coloration. Several of the specimens observed were corpse-white, and others were very pale pink, and the population gave every evidence of being well established. I hesitated to dig up many specimens and did not determine the source of nourishment, although one did have what appeared to be a tree root a little over a millimeter thick in the knobby base. The root was broken. The woody vegetation here is oak and maple with dogwood (both species) and *Ostrya*. The collections cited here from Cherokee County are number 683, 30 October 1966 and number 684, 11 October 1967; steep slopes, wet woods on Illinois River, five miles northeast of Tahlequah. Duplicates are deposited in the Herbarium of Oklahoma State University.

#### REFERENCES TO PREVIOUS COLLECTIONS:

- Barclay, H. D. 1946. New station in Oklahoma for *Hexalectris aphylla* (Nott.) Raf. and *Monotropa uniflora* L. Proc. Okla. Acad. Sci. 26:26.
- ..... 1948. The second state record on *Monotropa uniflora* L. Proc. Okla. Acad. Sci. 28:39.
- Little, E. L., Jr. 1951. Botanical notes from southeastern Oklahoma. Proc. Okla. Acad. Sci. 31:53.
- Taylor, Constance and John Taylor. 1964. Comments on the flora of Bryan County, Oklahoma. Proc. Okla. Acad. Sci. 44:8.