List of the Smut Fungi of Arkansas

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A LIST OF THE SMUT FUNGI OF ARKANSAS

G. E. Templeton
University of Arkansas

This list of smuts in Arkansas is a compilation of the smuts collected in Arkansas and deposited in the Mycological Herbarium of the Department of Plant Pathology at the University of Arkansas and those listed from Arkansas in Manual of the North American Smut Fungi by Fischer (1). Those smut species or hosts which are not presently in the herbarium, but which are reported by Fischer as occurring in Arkansas, are marked with an asterisk (*).

There are 30 species of smut listed representing 9 genera and parasitizing 27 species of host plants. Undoubtedly this list can be expanded substantially.

One species of smut, Tilletia youngii Clint. and Zundel, has been collected only in Arkansas. This species was collected by Dr. V. H. Young, former head of the department of Plant Pathology, University of Arkansas, and was named for him by Clinton and Zundel in the North American Flora in 1939. (2). This smut occurs in the ovaries and internodes of Alopecurus carolinianus, one of the small, inconspicuous foxtails. The original collection was made at Marianna, Arkansas, and no recent collection has been made.

SMUT FUNGI REPORTED IN ARKANSAS

<table>
<thead>
<tr>
<th>SMUT</th>
<th>HOST</th>
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<tbody>
<tr>
<td>1. *Cintractia axicola (Berk.) Cornu</td>
<td>Fimbristylis sp.</td>
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<tr>
<td>2. Doassansia sagittariae (Westend.) Fischer</td>
<td>Sagittaria montevidensis Cham. and Schlecht.</td>
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<tr>
<td>4. Entyloma compositarium Farl.</td>
<td>Ambrosia trifida L.</td>
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<tr>
<td>5. Entyloma oryzae Syd.</td>
<td>Oryza sativa L.</td>
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<tr>
<td>7. *Sorosporium cenchri Henn.</td>
<td>Cenchrus sp.</td>
</tr>
<tr>
<td>8. Sorosporium ellisii Wint.</td>
<td>Andropogon virginicus L.</td>
</tr>
<tr>
<td>9. Sorosporium everhartii Ell. and Gall.</td>
<td>Andropogon virginicus L.</td>
</tr>
<tr>
<td>11. Sphacelotheca cruenta (Kuhn) Potter</td>
<td>Sorghum halepense (L.) Pers.</td>
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</tbody>
</table>

* Sorghum sudanense (Piper) Stapf.
12. *Sphacelotheca sorghi* (Link) Clint.  
15. *Tilletia foetida* (Wallr.) Liro  
16. *Tilletia youngii* Clint and Zundel  
21. *Ustilago crusgalli* Tr. and Earle  
22. *Ustilago cynodontis* (Pass.)  
23. *Ustilago heterogena* Henn.  
27. *Ustilago ornata* Tr. and Earle  
30. *Ustilago syntherismae* (Schw.) Peck

**Sorghum balepense** (L.) Pers.  
*Sorghum sudanense* (Piper) Stapf.

Oryza sativa L.  
*Triticum vulgare* Vill.  
*Triticum vulgare* Vill.  
*Alopecurus carolinianus* Walt.

Elymus canadensis L.  
*Avena sativa* L.  
*Hordeum vulgare* L.  
*Bromus catharticus* Vahl.  
*Bromus polyanthus* Scribn.  
*Echinochloa crusgalli* (L.) Beauv.  
*Cynodon dactylon* (L.) Pers.  
*Panicum virgatum* L.  
*Avena sativa* L.  
*Hordeum vulgare* L.  
*Zea mays* L.  
*Triticum vulgare* Vill.  
*Leptochloa* sp.  
*Echinochloa crusgalli* (L.) Beauv.  
*Poa pratensis* L.  
*Digitaria sanguinalis* (L.) Scop.

**LITERATURE CITED**