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A LIST OF THE SMUT FUNGI OF ARKANSAS

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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

SMUT	HOST
1. * <i>Cintractia axicola</i> (Berk.) Cornu	<i>Fimbristylis</i> sp.
2. <i>Doassansia sagittariae</i> (Westend.) Fischer	<i>Sagittaria montevidensis</i> Cham. and Schlecht.
3. * <i>Entyloma australe</i> Speg.	<i>Physalis longifolia</i> Nutt.
4. <i>Entyloma compositarium</i> Farl.	<i>Ambrosia trifida</i> L.
5. <i>Entyloma oryzae</i> Syd.	<i>Oryza sativa</i> L.
6. <i>Melanopsichium pennsylvanicum</i> Hirschh.	<i>Polygonum lapathifolium</i> L.
7. * <i>Sorosporium cenchri</i> Henn.	<i>Cenchrus</i> sp.
8. <i>Sorosporium ellisii</i> Wint.	<i>Andropogon virginicus</i> L.
9. <i>Sorosporium everhartii</i> Ell. and Gall.	<i>Andropogon virginicus</i> L.
10. <i>Sphacelotheca reiliana</i> (Kuhn) Clint.	<i>Sorghum vulgare</i> Pers.
11. <i>Sphacelotheca cruenta</i> (Kuhn) Potter	<i>Sorghum halepense</i> (L.) Pers. * <i>Sorghum sudanense</i> (Piper) Stapf.

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|---|---|
| 12. * <i>Sphacelotheca sorghi</i> (Link) Clint. | <i>Sorghum halepense</i> (L.) Pers
<i>Sorghum sudanense</i> (Piper) Stapf. |
| 13. <i>Tilletia barclayana</i> (Bref.) Sacc. and Syd. | <i>Oryza sativa</i> L. |
| 14. <i>Tilletia caries</i> (DC.) Tul. | <i>Triticum vulgare</i> Vill |
| 15. <i>Tilletia foetida</i> (Wallr.) Liro | <i>Triticum vulgare</i> Vill. |
| 16. <i>Tilletia youngii</i> Clint and Zundel | <i>Alopecurus carolinianus</i> Walt. |
| 17. <i>Urocystis agropyri</i> (Preuss) Schrot. | <i>Elymus canadensis</i> L. |
| 18. <i>Urocystis kmetiana</i> Magn. | <i>Viola kitaibeliana</i> R. and S.
var. <i>rafinesquii</i> (Greene) Fern. |
| 19. <i>Ustilago avenae</i> (Pers.) Rostr. | <i>Avena sativa</i> L.
<i>Hordeum vulgare</i> L. |
| 20. * <i>Ustilago bullata</i> Berk. | <i>Bromus catharticus</i> Vahl.
* <i>Bromus polyanthus</i> Scribn. |
| 21. * <i>Ustilago crusgalli</i> Tr. and Earle | <i>Echinochloa crusgalli</i> (L.) Beauv. |
| 22. <i>Ustilago cynodontis</i> (Pass.) | <i>Cynodon dactylon</i> (L.) Pers. |
| 23. <i>Ustilago heterogena</i> Henn. | <i>Panicum virgatum</i> L. |
| 24. <i>Ustilago hordei</i> (Pers.) Lagerh. | <i>Avena sativa</i> L.
<i>Hordeum vulgare</i> L. |
| 25. <i>Ustilago maydis</i> (DC.) Cda | <i>Zea mays</i> L. |
| 26. <i>Ustilago nuda</i> (Jens.) Rostr. | <i>Triticum vulgare</i> Vill. |
| 27. <i>Ustilago ornata</i> Tr. and Earle | <i>Leptochloa</i> sp. |
| 28. <i>Ustilago sphaerogena</i> Burr. | <i>Echinochloa crusgalli</i> (L.) Beauv. |
| 29. <i>Ustilago striiformis</i> (Westend.) Niessl. | <i>Poa pratensis</i> L. |
| 30. <i>Ustilago syntherismae</i> (Schw.) Peck | <i>Digitaria sanguinalis</i> (L.) Scop. |

LITERATURE CITED

1. Fischer, G. W. 1953. *Manual of the North American Smut Fungi*. The Ronald Press Co. N.Y. 343 pp.
2. Clinton, G. P. and G. L. Zundel. 1939. *North American Flora* 7:1012.