NOTES ON INDIANA GRASSES, 1935

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This is the fourth contribution of a series of annual reports on Indiana grasses previously unreported for the counties specified. The nomenclature is that of Deam's Indiana Grasses, 1929. Records prefixed with a star have been reported by Mr. Scott McCoy of Indianapolis.

The writer also gratefully asknowledges the checking of the species reported in this paper by Mr. Chas. C. Deam. A specimen of each grass reported was deposited in the Butler University herbarium.

Agropyron repuns (L.) Beauvois. Henry County: edge of ditch near road, 1.5 miles e. of Springport. Madison County: intersection of Highways 67 and 9, waste place along railway embankment. Wabash County: waste place along country road just off Highway 24, quarter mile w. of county line.

Agrostis stolonifera var. major (Guadin) Farwell. Johnson County: 4.7 miles n. of Bargersville, old gravel pit along little stream.

Agrostis Elliottiana Schultes. Clinton County: open places along side of ditch and Highway 29, about 3.2 miles n. of Kirklin. Sullivan County:* abandoned field half mile e. of Paxton. Vanderburg County: edge of shallow ditch along Highway 62, half mile e. of Posey County line.

Agrostis perennans (Walt.) Tuckerman. Putnam County: top of wooded bluff along Eel River at U. S. Highway 36, three miles w. of Groveland.

Alopecurus carolinianus Walt. Cass County: rather low old fallow field, 3 mi. e. of Lake Cicott, Highway 24. Marion County: waste places along edge of Butler Botanical Garden. Sullivan County:* abandoned field half mile e. of Paxton. Warrick County: fallow field, 1 mile e. of Boonville along Highway 62.

Andropogon scoparius Michaux. Bartholomew County: old field along Highway 46, Stony Lonesome, 10 miles w. of Columbus.

Aristida dichotoma Michaux. Monroe County: fallow field, clay hill near Mr. Baxter's farm, 10 miles se. of Bloomington, Salt Creek Township.

Aristida longespica Poiret. Bartholomew County: waste field along Highway 46, five miles w. of Columbus.

Bromus commutatus Schrader. Madison County: edge of Highway 9, half mile s. of Madison-Hancock County line. Morgan County: waste ground. hill with scattered trees, 3 mi. sw. of Morgantown.

Bromus japonicus Thunberg. Brown County: edge of Highway 46, 1 mile s, of Bean Blossom. Clinton County: edge of ditch and Highway 29. 2.3 miles n. of Boylston. Henry County: edge of Highway 3 and a little creek, 1.3 mi. s. of Springport. Morgan County: 2 miles w. of Centerton, edge of road just across Sycamore Creek. Wabash County: waste place around road through field just off Highway 24, about one-fourth mile w. of county line.

Bromus purgans L. Lagrange County: boggy place along country road, 3 miles s. of Brushy Prairie. Steuben County: open places in oak woods, sandy soil above bog, east of Hogback Lake.

Bromus purgans forma laevivaginatus Wiegand. Johnson County: open woods near road, 3 miles s. of Trafalgar. Lagrange County: oakhickory woods half mile e. of Adams Lake. Morgan County: Highway 35 and edge of ditch, 3 miles sw. of Morgantown.

Bromus secalinus L. Clinton County: 3.2 miles n. of Kirklin, along fences, roadsides, Highway 29. Henry County: edge of Highway 3 and ditch, 1.3 miles s. of Springport. Johnson County: roadside ditch, 3 miles s. of Trafalgar. Marion County: edge of field and low ground, beech woods, Spann woods half mile n. of Kessler Boulevard, mile w. of Crow's Nest.

Bromus tectorum L. Franklin County: low fields, roadsides, common along Highway 52, 1 mile w. of Metamora.

Cinna arundinacea L. Brown County: low woods along Salt Creek, 2 miles n. of Gnaw Bone. Madison County: open woods, south side of Road 36, 3.3 mi. w. of Emporia.

Dactylis glomerata L. Cass County: along railway embankments, 3 miles w. of Lake Cicott. Clinton County: 2.2 miles n. of Michigantown, edge of ditch and Highway 29. Spencer County: along high bank at eastern edge of St. Meinrad, along Highway 62. Warrick County: along side of road, 1 mile east of Boonville, Highway 62.

Danthonia spicata (L.) Beauvois. Morgan County: edge of woods and dry clay upland, 1.5 miles w. of Centerton.

Diarina festucoides Rafinesque. Madison County: open woods south side of Road 36, 3.3 mi. w. of Emporia.

Digitaria Ischaemum Schreber. Brown County: waste places along road at foot of ridge below Dr. Smith's cabin, half mile w. of U. S. Highway 35, at Whippoorwill's Nest.

Echinochloa crusgalli (L.) Beauvois. Henry County: roadside, 1 mile n. of Dunreith, Highway 3. Johnson County: 4.7 miles nw. of Bargersville, old gravel pit along little stream. Marion County: waste place along edge of Bacon's Swamp at 56th street, Indianapolis.

Elymus canadensis L. Huntington County: side of road, near Silver Creek, along Highway 24.

 $Elymus\ riparius$ Wiegand. Brown County: low woods along Salt Creek, 2 miles n. Gnaw Bone.

Elymus virginicus var. glabriflorus (Vasey) Bush. Henry County: edge of country road and ditch, 2.5 miles n. of bridge over upper Blue River, half mile n. of Springport road.

Eragrostis cilianensis (Allioni) Link. Hancock County: field, city park at Fortville. Henry County: roadside at junction of Highway 36 and Blue River, 1.8 miles e. of Mt. Summit. Marion County: waste places along road leading from 59th street, Indianapolis, to west approach of Bacon's Swamp.

Botany 105

Eragrostis hypnoides (Lamarck) BSP. Marion County: wet boggy soil at Bacon's Swamp, at 56th street, Indianapolis.

Eragrostis pectinacea (Michaux) Nees. Madison County: roadside along Highway 36, 4.4 miles w. of Emporia.

Eragrostis spectabilis (Pursh) Steudel. Brown County: waste field on Dr. Smith's estate, hillside just below his cottage, half mile w. of U. S. Highway 35.

Festuca elatior L. Hamilton County: edge of highway and ditch, 2 miles se. of junction of Highways 32 and 38 on 38.

Festuca octoflora var. tenella Fernald. Morgan County: along sand mine railway tracks, sandy soil near chutes for unloading, 1 mile e. of Highway 67.

Festuca rubra L. Marion County: margin of woods and lawn, 3711 N. Gladstone Ave., Indianapolis.

Glyceria plicata Fries. Noble County: waste lowland area overgrown with buttonbush, 1 mile nw. of Wolf Lake.

Hordeum jubatum L. Hancock County: roadside, half mile s. Madison-Hancock county line along Highway 36. Madison County: roadside, half mile e. of Madison-Hancock county line.

Holcus lanatus L. Henry County:* edge of road through woods in Memorial Park, 1 mile n. of Newcastle, on Highway 3.

Hystrix patula Moench. Montgomery County: lowland woods in Pine Hills, near Indian Creek.

Koeleria cristata (L.) Persoon. Cass County: sandy hill in old cemetery, w. of cottages at Lake Cicott.

Leersia oryzoides (L.) Swartz. Hancock County: flood-plain of small stream in Fortville city park.

Lolium multiflorum Lamarck. Marion County: first report for the state; lawn of Mrs. B. F. Aufderheide, 4012 N. Broadway, Indianapolis.

Muhlenbergia brachyphylla Bush. Henry County: roadside along Highway 3, 1 mile n. of Dunreith.

Muhlenbergia foliosa Trinius. Greene County: roadside embankment, 2 miles sw. of Worthington.

Muhlenbergia mexicana (L.) Trinius. Hancock County: flood-plain of small stream in Fortville city park. Madison County: open woods, south side of Road 36, 3.3 miles w. of Emporia.

Muhlenbergia Schreberi Gmel. Madison County: roadside along Highway 36, 4.4 miles w. of Emporia.

Muhlenbergia tenuiflora (Willd.) BSP. Brown County: young, dense oak woods, 1 mile south of Bean Blossom, half mile e. of Highway 35, on first country road out of Bean Blossom.

Panicum Boscii Poiret. Montgomery County: terrace above Indian Creek, below Devil's back bone, Pine Hills.

Panicum capillare L. Bartholomew County: waste field along Highway 46, 5 miles w. of Columbus. Henry County: roadside along Highway 3, 1 mile n. of Dunreith.

Panicum clandestinum L. Morgan County: edge of road to field crossing Sycamore Creek, 2 miles w. of Centerton. Montgomery County: first terrace above Indian Creek, below Devil's Backbone, Pine Hills. Sullivan County:* edge of abandoned field, half mile e. of Paxton.

Panicum dichotomiflorum Michaux. Marion County: waste place along road from 59th street, Indianapolis, to western entrance of Bacon's Swamp. Bartholomew County: waste field along Highway 46, five miles w. of Columbus. Hancock County: old field, Fortville city park. Henry County: roadside along Highway 3, 1 mile n. of Dunreith. Madison County: roadside along Highway 36, 4.4 miles w. of Emporia.

Panicum dichotomum L. Montgomery County: dry upland on the backbones in Pine Hills.

Panicum huachucae Ashe. Parke County: dry roadside bank at Roaring Creek, 6 miles n. of Rockville on Road 41. Hamilton County: edge of open woods densely overgrown with grass, 1.3 miles sw. of railway overhead crossing, near Noblesville. Madison County: waste place along railroad right-of-way, along Highway 67 opposite the State Reformatory. Morgan County: dry fallow field, clay soil, 1.5 miles w. of Centerton, near cliff on Sycamore Creek.

Panicum Lindheimeri Nash. Marion County: sandy waste field above Bacon's Swamp, near 58th Street, Indianapolis, west side of swamp.

Panicum linearifolium Scribner. Steuben County: gravelly sandy ridge, east side of road, east side of Hogback Lake. Cass County: sandy ridge in old cemetery, west of cottages, at Lake Cicott and Highway 24.

Panicum sphaerocarpon Elliott. Brown County: waste field below Dr. Smith's cottage, 1.5 miles s. of Bean Blossom, half mile w. of Highway 35. Monroe County: waste upland field at Cedar Cliffs, western edge.

Phalaris arundinacea L. Cass County: low place along railway tracks, .3 mile e. of Lake Cicott.

Phleum pratense L. Cass County: cut through gravel and sand hill, Highway 24, 3 miles w. of Logansport. Clinton County: 3.2 miles n. of Kirklin, along fence and between Highway 29 and ditch. Henry County: edge of ditch and road, 1.5 miles e. of Springport.

Poa annua L. Madison County: waste places along Highway 9 in Pendleton. Posey County: lawn at World War Memorial in Mt. Vernon. Warrick County: fallow upland field, 1 mile e. of Boonville.

Poa Chapmaniana Scribner. Marion County:* waste places at 36th St. and Graceland, Indianapolis. Sullivan County:* abandoned field, half mile e. of Paxton. Warrick County: fallow upland field, 1 mile e. of Boonville.

Poa compressa L. Henry County: edge of little creek, 1.3 miles s. of Springport, along Highway 3.

Poa pratensis L. Clinton County: along fences and ditches, 3.2 miles n. of Kirklin, Highway 29. Crawford County: roadside along Highway 37, three miles n. of Sulphur. Franklin County: open field near little creek, half mile south of U. S. Highway 52, about 3 miles w. of Metamora.

BOTANY 107

Marion County: edge of walk along upper edge of canal bank, Butler University Campus, Indianapolis. Perry County: along little creek, in a fallow field, 1.9 miles e. of St. Meinrad, along Highway 62. Vanderburg County: edge of ditch running through a field, .6 mile e. of Posey County line, Highway 62. Warrick County: roadside, 1 mile east of Boonville.

Poa sylvestris Gray. Franklin County: beech-maple woods, along edge of intermittent stream, north side of U. S. Highway 52, 3 miles w. of Metamora.

Setaria lutescens (Weigel) Hubbard. Henry County: roadside along Highway 3, 1 mile n. of Dunreith. Madison County: field on east edge of woods, along Highway 3, about 3.3 miles w. of Emporia. Marion County: fallow field above Bacon's Swamp, Indianapolis. Wabash County: waste places along old road, just off Highway 24, quarter mile w. of county line.

Setaria viridis (L.) Beauvois. Cass County: roadside along Highway 24, 1 mile w. of Lake Cicott.

Sorghastrum nutans (L.) Nash. Henry County: seeping bog in park, 2.6 miles n. of Newcastle. Huntington County: railway embankment, east side of Silver Creek, along Highway 24.

Sphenopholis obtusata (Michaux) Scribner. Cass County: wet area along fence, just north of old pond, half mile w. of Lake Cicott.

Sphenopholis pallens (Sprengel) Scribn. Perry County: along fence in fallow field, 1.9 miles e. of St. Meinrad, Highway 62.

Sporobolus asper (Michaux) Kunth. Hancock County: roadside bank, Highway 67, mile w. of Fortville. Madison County: roadside at junction of Highways 67 and 9.

Sporobolus vaginaeftorus (Torrey) Wood. Henry County: roadside along Highway 3, 1 mile n. of Dunreith.

Stipa spartea Trinius. Cass County: sandy ridge in old cemetery, w. of cottages, at Lake Cicott.