

NOTES ON INDIANA GRASSES, 1933

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This is the second 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.

The writer gratefully acknowledges the checking by Mr. C. C. Deam of the species listed. A specimen of each grass reported was deposited in the Butler University herbarium. Collections in Johnson County were made by Miss Hollis Jones of Bargersville.

Agropyron repens (L.) Beauvois. HENDRICKS COUNTY. One-half mile south of Royalton, edge of highway. STEUBEN COUNTY. Along edge of highway near Bass Lake.

Agrostis hiemalis (Walter) BSP. CLAY COUNTY. Five miles southwest of Poland. Open waste field. MARION COUNTY. Open waste field on Fort Harrison reservation. PUTNAM COUNTY. Along edge of woods one mile northeast of Darbytown.

Agrostis perennans (Walter) Tuckerman. JOHNSON COUNTY. Woodland near Center Grove high school, Bargersville. MORGAN COUNTY. Open upland woods along Sycamore Creek, four miles southwest of Centerton. MONROE COUNTY. Open woods, edge of fields, eight miles south of Bloomington.

Agrostis stolonifera var. *major*. (Gaudin) Farwell. FOUNTAIN COUNTY. Along edge of little creek, open woods. Four miles south of Veedersburg. HENDRICKS COUNTY. Along highway 40, near a ditch. Ten miles west of Plainfield. HANCOCK COUNTY. Along edge of pond on Reformatory grounds at Pendleton. JOHNSON COUNTY. Fields, meadows, roadsides near Bargersville. MARION COUNTY. Along edge of highway at Arlington Avenue near 33d St., Indianapolis. PUTNAM COUNTY. Along edge of Deer Creek four miles south of Manhattan.

Alopecurus ramosus Poiret. CLINTON COUNTY. Low muddy place in an old pasture. Twelve miles northwest of Lebanon.

Andropogon virginicus Linnaeus. CLARK COUNTY. Waste field, four miles west of Henryville. SULLIVAN COUNTY. Waste field in Shakamak Park.

Anthoxanthum odoratum Linnaeus. OWEN COUNTY. Along an open bluff, edge of open woods near upper Cataract Falls.

Aristida dichotoma Michaux. JEFFERSON COUNTY. Roadside, clay bank, seven miles west of Hanover. WASHINGTON COUNTY. Waste field, three miles south of Kossuth.

Aristida longespica Poiret. CLAY COUNTY. Old church yard about two miles northwest of Jasonville. JACKSON COUNTY. Waste field one mile south of Crothersville. SULLIVAN COUNTY. Waste field in Shakamak Park. VIGO COUNTY. Edge of woods two miles north of Farmersburg.

Aristida oligantha Michaux. PORTER COUNTY. Roadside above Mink Lake. SULLIVAN COUNTY. Waste field in Shakamak Park.

Arrhenatherum elatius (L.) Mertens and Koch. CLAY COUNTY. Along ditch near a country road, eight miles south of Manhattan.

Brachyelytrum erectum (Schreber) Beauvois. PUTNAM COUNTY. Shady moist upland woods, one mile northeast of Darbytown.

Bromus japonicus Thunberg. BOONE COUNTY. Edge of ditch near the highway, ten miles northwest of Lebanon.

Bromus incanous (Shear) Hitchcock. HAMILTON COUNTY. Upland mixed hardwoods, four miles south of Noblesville.

Bromus commutatus Schrader. MARION COUNTY. Along the highway two miles west of Millersville.

Bromus purgans Linnaeus. OWEN COUNTY. In crevices of rocks of shady upland woods above Upper Cataract Falls.

Bromus purgans forma *laevivaginus* Wiegand. HAMILTON COUNTY. Upland mixed hardwoods, four miles south of Noblesville.

Bromus secalinus Linnaeus. TIPPECANOE COUNTY. Along an old road along Flint Creek, three miles west of West Point.

Bromus tectorum Linnaeus. JOHNSON COUNTY. Waste place along road near Bargersville.

Calamagrostis canadensis (Michaux) Beauvois. CLINTON COUNTY. Low place in open woodland along Road 52, seventeen miles northwest of Lebanon.

Cenchrus pauciflorus Benth. OWEN COUNTY. Along roadside, four miles south of Paragon.

Cinna arundinacea Linnaeus. MORGAN COUNTY. Shady alluvial soil along Sycamore Creek, four miles southeast of Centerton.

Dactylis glomerata Linnaeus. OWEN COUNTY. In open field above Upper Cataract Falls.

Danthonia spicata (L.) Beauvois. MONTGOMERY COUNTY. Dry upland field near Darlington Marsh. PARKE COUNTY. Open waste place near highway along Roaring Creek, six miles north of Rockville. TIPPECANOE COUNTY. Dry upland oak grove, soil covered with moss and lichens. Three miles west of West Point, above Flint Creek.

Digitaria Ischaemum Schreber. CLAY COUNTY. Waste places about cabins in Shakamak Park. JACKSON COUNTY. Waste field three miles south of Crothersville. MORGAN COUNTY. Waste places along the road near Sycamore Creek, four miles southwest of Centerton. OWEN COUNTY. Roadside, four miles south of Paragon. SCOTT COUNTY. Waste places along road, one mile north of Austin. SWITZERLAND COUNTY. Roadside, two miles northwest of Vevay. VIGO COUNTY. Along old road through open woods, especially in depression areas, three miles north of Farmersburg.

Digitaria sanguinalis Scopoli. BARTHOLOMEW COUNTY. Waste place near a filling station, one mile south of Taylorsville. CLARK COUNTY. Edge of road, dry creek bed, four miles west of Henryville. CLAY COUNTY. Waste place about cabins, Shakamak Park. HENDRICKS COUNTY. Roadside along Highway 67, one mile southeast of Mooresville. JEFFERSON COUNTY. Clay bank along roadside, seven miles west of Hanover. OWEN COUNTY. Roadside, four miles south of Paragon.

Echinochloa crusgalli (L.) Beauvois. CLARK COUNTY. Along edge of little creek, four miles west of Henryville. MORGAN COUNTY. Allu-

vial soil along Sycamore Creek, four miles southwest of Centerton. SCOTT COUNTY. Waste places along road, one mile north of Austin. SULLIVAN COUNTY. Low wet ground along a pond near Sullivan.

Elymus canadensis Linnaeus. MARION COUNTY. Low waste place near 52d St. and Boulevard Place, Indianapolis. OWEN COUNTY. Hill-side along the side of the road, edge of woods, four miles south of Paragon.

Elymus riparius Wieg. MORGAN COUNTY. Shady place along Sycamore Creek, alluvial soil, four miles southeast of Centerton.

Elymus striatus Wildenow. FOUNTAIN COUNTY. Upland near edge of woods, also along fences, four miles south of Veedersburg.

Elymus virginicus Linnaeus. CLAY COUNTY. Edge of lowland woods near Eel River, three miles northeast of Bowling Green. FOUNTAIN COUNTY. Lowland woods along edge of creek, four miles south of Veedersburg. GREENE COUNTY. Edge of ditch near Highway 67, three miles southwest of Worthington.

Elymus virginicus var. *glabriflorus* (Vasey) Bush. MARION COUNTY. Along a ditch, Keystone Ave. and 62d St., Indianapolis.

Elymus indica (L.) Gaertner. JACKSON COUNTY. Waste place along roadside, one mile north of Seymour. JOHNSON COUNTY. Waste places near Bargersville. OWEN COUNTY. Roadside, four miles south of Paragon. SWITZERLAND COUNTY. Old road along edge of woods, one mile south of Pleasant.

Eragrostis capillaris (L.) Nees. JOHNSON COUNTY. Open woodland near Bargersville.

Eragrostis hymnoides (Lamarek) BSP. JOHNSON COUNTY. Open woodland near Bargersville.

Eragrostis cilianensis (Allioni) Link. BARTHOLOMEW COUNTY. Waste place near filling station, one mile south of Taylorsville. CLAY COUNTY. Waste place in Shakamak Park. GREENE COUNTY. Dry ditch along Highway 67, one mile southwest of Worthington. SANDY SOIL. HENDRICKS COUNTY. Roadside, one mile southeast of Mooresville. JACKSON COUNTY. Waste place along road, one mile north of Seymour. JOHNSON COUNTY. Waste places, old fields near Bargersville. MORGAN COUNTY. Roadside, four miles southwest of Martinsville. OWEN COUNTY. Roadside, four miles south of Paragon.

Eragrostis Frankii Steudel. CLAY COUNTY. Waste upland field in front of camp building in Shakamak Park. GREENE COUNTY. Dry sandy ditch along Highway 67, one mile southwest of Worthington. JOHNSON COUNTY. Open woods near Bargersville. MARION COUNTY. Edge of woodland road, old clay upland on Fort Harrison grounds. WHITE COUNTY. Roadside, waste places, one and one-half miles north of Monon.

Eragrostis pectinacea (Michaux) Nees. HENDRICKS COUNTY. Roadside along Highway 67, one mile southeast of Mooresville. JOHNSON COUNTY. Waste places about barnyard, Bargersville.

Eragrostis spectabilis (Pursh) Steudel. JOHNSON COUNTY. Roadside and open fields near Bargersville. LAPORTE COUNTY. Between railway tracks of old switch near Michigan City. OWEN COUNTY. Roadside, edge of Spencer city limits. SCOTT COUNTY. Waste places along road, one mile north of Austin. SULLIVAN COUNTY. Roadside near Pax-

ton. SWITZERLAND COUNTY. Old road along edge of woods, one mile south of Pleasant. VIGO COUNTY. Dry waste fields, two miles north of Farmersburg.

Festuca elatior Linnaeus. HENDRICKS COUNTY. Lowland along road, half mile east of Royalton. HANCOCK COUNTY. Along edge of pond on grounds of Pendleton Reformatory. JOHNSON COUNTY. Side of road, edges of fields near Bargserville. MARION COUNTY. Along highway near Johnson's Hill, two miles east of Millersville.

Festuca obtusa Sprengel. HAMILTON COUNTY. Shady upland woods near the Jose Dale estate.

Festuca ovina Linnaeus. OWEN COUNTY. Edge of woods on upland above Upper Cataract Falls.

Festuca octoflora Walter. OWEN COUNTY. Open hillside, waste fields above Upper Cataract Falls.

Glyceria striata (Lamarck) Hitchcock. CLAY COUNTY. Low wet place in lowland woods along Birch Creek, Ashboro. HAMILTON COUNTY. Low wet ground near the Jose Dale estate.

Hordeum jubatum Linnaeus. CLINTON COUNTY. Low muddy place in old hog pen, twelve miles northwest of Lebanon. TIPPECANOE COUNTY. Along roadside, one mile north of Clark's Hill.

Hystrix patula Moench. HAMILTON COUNTY. Upland mixed hardwoods, four miles south of Noblesville.

Leersia oryzoides (L.) Swartz. MORGAN COUNTY. Roadside ditch, four miles southwest of Martinsville.

Leersia virginica Wildenow. CLARK COUNTY. Waste places about old homes, especially shaded corners, three miles west of Henryville. CLAY COUNTY. Shady places along creeks, one and one-half miles northwest of Jasonville. MORGAN COUNTY. Alluvial soil along Sycamore Creek, four miles southwest of Centerton.

Lolium perenne Linnaeus. MARION COUNTY. Vacant lot on Capitol Ave. near 30th St., Indianapolis. OWEN COUNTY. Along edge of road in McCormick's Creek Park. SULLIVAN COUNTY. Roadside, half mile south of Sullivan.

Muhlenbergia mexicana (L.) Trinius. MORGAN COUNTY. Along edge of ditch along Highway 67, one mile southeast of Mooresville. MONTGOMERY COUNTY. In ditch on railway right-of-way, four miles north of Crawfordsville. RIPLEY COUNTY. In a ditch, one mile northwest of Versailles. SULLIVAN COUNTY. Edge of dry creek in lowland woods, three miles south of Hymera.

Muhlenbergia glabriflora Scribner. GREENE COUNTY. Edge of ditch in dense tangle of vegetation along Road 67, three miles northwest of Worthington.

Muhlenbergia Schreberi J. F. Gmelin. CLARK COUNTY. Waste places about old homes, three miles west of Henryville. PORTER COUNTY. Edge of road near lowland woods, Dunes Park.

Muhlenbergia sobolifera (Muhlenberg) Trinius. CLAY COUNTY. Upland woods near Shakamak Park.

Panicum capillare Linnaeus. BARTHOLOMEW COUNTY. Roadside embankment, one mile south of Taylorsville. CLARK COUNTY. Edge of creek, four miles west of Henryville. JOHNSON COUNTY. Waste places

along edge of road near Bargersville. MORGAN COUNTY. Waste place along road near Sycamore Creek, four miles southwest of Centerton.

Panicum dichotomiflorum Michaux. CLARK COUNTY. Along roadside, three miles west of Henryville. CLAY COUNTY. Old church yard, two miles northwest of Jasonville. OWEN COUNTY. Roadside, four miles south of Paragon. SCOTT COUNTY. Waste places along road, one mile north of Austin. STARKE COUNTY. Waste area along railway tracks, two miles north of San Pierre. VIGO COUNTY. Woodland road, four miles north of Farmersburg.

Panicum virgatum Linnaeus. CLAY COUNTY. Along railway tracks, four miles south of Worthington.

Panicum huachucae Ashe. FOUNTAIN COUNTY. Edge of woods, open fields, four miles south of Veedersburg. HENDRICKS COUNTY. Along edge of highway, four miles west of Lizton. HANCOCK COUNTY. Along edge of pond on grounds of Pendleton Reformatory. JEFFERSON COUNTY. Roadside bank, seven miles west of Hanover. MARION COUNTY. Low shady woods near 37th and Drexel Blvd., Indianapolis. OWEN COUNTY. Shady upland woods near Cataract Falls. STEUBEN COUNTY. Dry sandy upland woods, north shore of Fox Lake. TIPPECANOE COUNTY. Shady oak woods above Flint Creek, three miles west of West Point.

Panicum clandestinum Linnaeus. MARION COUNTY. In low ditch near Butler Botanical Garden, Indianapolis. PARKE COUNTY. Open waste place near Roaring Creek, six miles north of Rockville.

Panicum flexile (Gattinger) Scribner. TIPPECANOE COUNTY. Boggy soil, three miles west of West Point.

Panicum Gattingeri Nash. MARION COUNTY. In lowland between White River and canal, Butler grounds, Indianapolis. MORGAN COUNTY. Waste places along road near Sycamore Creek, four miles southwest of Centerton. SWITZERLAND COUNTY. Roadside, two miles northwest of Vevay. TIPPECANOE COUNTY. Waste area on floodplain of Flint Creek, three miles west of West Point.

Panicum lienarifolium Scribner. TIPPECANOE COUNTY. Shady upland woods above Flint Creek, three miles west of West Point.

Paspalum circulare Nash. JACKSON COUNTY. Waste field, one mile south of Crothersville. SULLIVAN COUNTY. Waste field in Shakamak Park.

Phalaris arundinacea Linnaeus. HENDRICKS COUNTY. Along Highway 40, ten miles west of Plainfield. MARION COUNTY. Along edge of ditch about two miles east of Millersville.

Phleum pratense Linnaeus. HANCOCK COUNTY. Open waste field near pond on Pendleton Reformatory. PARKE COUNTY. Edge of highway near Roaring Creek, six miles north of Rockville. HENDRICKS COUNTY. Along Road 40, ten miles west of Plainfield.

Phragmites communis Trinius. TIPPECANOE COUNTY. Bog near Flint Creek, three miles west of West Point.

Poa compressa Linnaeus. BOONE COUNTY. Edge of ditch near road, ten miles northwest of Lebanon. CLAY COUNTY. Along edges of field near the road, five miles southwest of Poland. FOUNTAIN COUNTY. Open woods near the road, four miles south of Veedersburg. HAMILTON

COUNTY. Open waste field near edge of woods, Jose Dale estate. JOHN-SON COUNTY. Edges of fields, roadside, Bargersville. PARKE COUNTY. Along edge of highway near Roaring Creek, six miles north of Rockville.

Poa pratensis Linnaeus. HENDRICKS COUNTY. Lowland along road, half mile east of Royalton. HAMILTON COUNTY. Edge of woods in shady place, near Jose Dale estate. MONTGOMERY COUNTY. Field, on top of hill above Darlington marsh.

Poa sylvestris Gray. HAMILTON COUNTY. Dense shady woods near the Jose Dale estate.

Setaria lutescens (Weigel) Hubbard. BARTHOLOMEW COUNTY. Waste place near filling station, one mile south of Taylorsville. GREENE COUNTY. Railway right-of-way along Road 67, one mile south of Worthington. HENDRICKS COUNTY. Along side of highway 34, four miles west of Lizton. HAMILTON COUNTY. Waste place along Road 13, four miles south of Noblesville. JOHNSON COUNTY. Waste places, old fields, near Bargersville. MORGAN COUNTY. Waste places along road near Sycamore Creek, four miles southwest of Centerton. OWEN COUNTY. Roadside, four miles south of Paragon. PARKE COUNTY. Waste places about cabins in Shakamak Park. PORTER COUNTY. Roadside above Mink Lake. SCOTT COUNTY. Waste places along road, one mile north of Austin. SWITZERLAND COUNTY. Roadside, two miles northwest of Ve-vay. VIGO COUNTY. Roadside, two miles north of Farmersburg.

Setaria viridis (L.) Beauvois. HENDRICKS COUNTY. Roadside along Road 67, one mile southeast of Mooresville. JOHNSON COUNTY. Edge of road near Bargersville. OWEN COUNTY. Roadside, four miles south of Paragon. RIPLEY COUNTY. Roadside, one mile northwest of Versailles.

Sorghum halepense (L.) Persoon. CLAY COUNTY. Waste field on floodplain of Eel River, three miles northeast of Bowling Green. OWEN COUNTY. Cornfield in low place, four miles south of Paragon.

Sporobolus cryptandrus (Torrey) Gray. STARKE COUNTY. Waste sandy place along road, edge of San Pierre.

Sporobolus cryptandrus var. *involutus* Farwell. BENTON COUNTY. Sandy place (collection by Scott McCoy). LAPORTE COUNTY. Sandy soil along old railway switch, waste sandy places in general, east of Michigan City along Road 12.

Sporobolus vaginaeflorus (Torrey) Wood. MARION COUNTY. Edge of flower beds at home of John F. Cook, 5120 Broadway, Indianapolis. OWEN COUNTY. Sandy clay soil in road cut, about half mile northeast of Spencer.

Triodia flava (L.) Hitchcock. MORGAN COUNTY. Roadside along Road 67, one mile southeast of Mooresville.

Triplasis purpurea (Walt) Chapm. PORTER COUNTY. Sandy dune soil along old railway switch near Road 12 east of Michigan City.

Uniola latifolia Michaux. Shady lowland woods near Mill Creek, at Lower Cataract Falls.