

The checklist of vascular plants of Forest River Biology Station and
Wildlife Management Area,
Grand Forks county, North Dakota

Alexey Shipunov¹, Kathryn A. Yurkonis², John C. La Duke³, and Vera L. Facey⁴

¹Minot State University

²University of North Dakota

³University of Nebraska at Kearney

⁴University of North Dakota, Deceased

We conducted a plant survey at the University of North Dakota and the North Dakota Game and Fish Department Forest River Biology Station and Wildlife Management Area. This survey continued previous efforts by Vera Facey and John La Duke to generate a listing of the plant species of the Forest River Biology Station and Wildlife Management Area. In total 504 plant species have been recorded in the Forest River Biology Station and Wildlife Management Area, which is a 160-acre preserve that contains representative upland and riparian communities in Eastern North Dakota. Data collected as part of this project is crucial in developing future management benchmarks for the field station and will assist in planning future research projects at the site.

Vascular plants

Vascular plants

I. Adoxaceae

- 1(1). *Viburnum lentago* L.
Abundant, especially on lower slopes and flood-plains near river.
2(2). *Viburnum opulus* L.
Infrequent to rare, moist areas near river.
3(3). *Viburnum rafinesqueanum* Schult.
Abundant, woods.

II. Alismataceae

- 1(4). *Alisma subcordatum* Raf.
Infrequent, along river banks, seepage areas, edge of swamp.
2(5). *Sagittaria cuneata* Sheldon
Locally abundant, along river banks, seepage areas and edge of swamp.
3(6). *Sagittaria latifolia* Willd.
Rare, in water.

III. Amaranthaceae

- 1(7). *Amaranthus albus* L.

2(8). *Amaranthus retroflexus* L.

Infrequent, river sand bars.

3(9). *Chenopodium album* L.

Infrequent, sand bars along river.

4(10). *Chenopodium leptophyllum* (Moq.) Nutt.
ex S. Watson

Prairie. Absent from collections.

5(11). *Chenopodium simplex* (Torr.) Raf.

Infrequent, open areas under trees, north-facing slopes.

6(12). *Corispermum villosum* Rydb.

Roadside, south-west of University Biology Area.
Absent from collections.

7(13). *Salsola tragus* L.

Rare.

IV. Amaryllidaceae

- 1(14). *Allium stellatum* Fraser ex Ker Gawl.
Infrequent, prairie, especially near woods.
2(15). *Allium textile* A. Nelson & J.F. Macbr.
Infrequent, prairie.
3(16). *Allium tricoccum* Aiton
Infrequent, north-facing slopes and terraces.

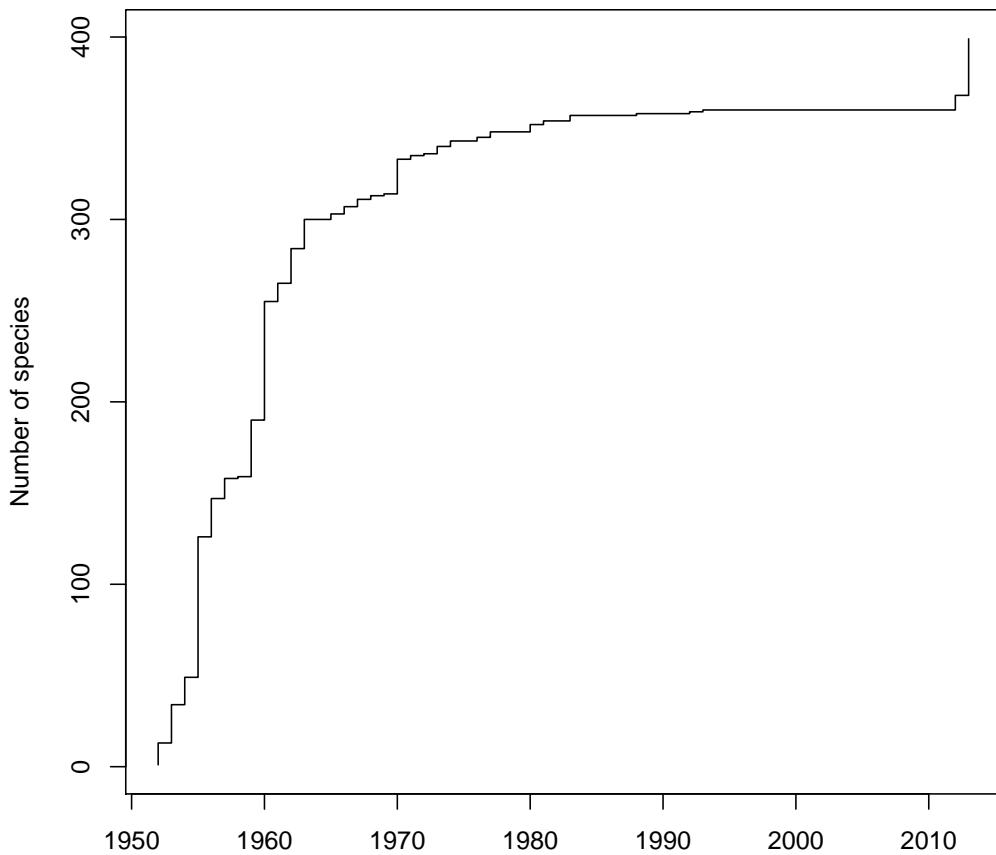


Figure 1. The total number of species found by year (only species with known year counted)

V. Anacardiaceae

- 1(17). *Rhus glabra* L.
Rare, east-facing slope below prairie, north boundary.
- 2(18). *Toxicodendron radicans* (L.) Kuntze
Abundant, edge of prairie, paths and open areas within woodland.

VI. Apiaceae

- 1(19). *Cicuta maculata* L.
Infrequent, swamps.
- 2(20). *Cryptotaenia canadensis* (L.) DC.
Abundant locally, wooded floodplains, ravines, lower slopes.
- 3(21). *Cymopterus acaulis* (Pursh) Raf.
Rare.
- 4(22). *Daucus carota* L.
Rare.

- 5(23). *Heracleum maximum* Bartram
Infrequent, but conspicuous when in bloom, edge of woods along river.
- 6(24). *Lomatium foeniculaceum* (Nutt.) J.M. Coulter. & Rose
Prairie. Absent from collections.
- 7(25). *Lomatium orientale* J.M. Coulter. & Rose
Infrequent, prairie.
- 8(26). *Osmorrhiza claytonii* (Michx.) C.B. Clarke
Rare, woods, south of beaver-swamp.
- 9(27). *Osmorrhiza longistylis* (Torr.) DC.
Infrequent, woods.
- 10(28). *Sanicula marilandica* L.
Abundant, woods.
- 11(29). *Sium suave* Walter
Beaver dam and swamp area. Absent from collections.
- 12(30). *Zizia aptera* (A. Gray) Fernald
Rare.

- 13(31). *Zizia aurea* (L.) W.D.J. Koch
Abundant, woods.

VII. Apocynaceae

- 1(32). *Apocynum androsaemifolium* L.
Infrequent, edge of woods, prairie within woods.
- 2(33). *Apocynum cannabinum* L.
Rare, prairie.
- 3(34). *Asclepias incarnata* L.
Rare, flood-plains of river.
- 4(35). *Asclepias lanuginosa* Nutt.
Prairie. Absent from collections.
- 5(36). *Asclepias ovalifolia* Decne.
Infrequent, prairie near woods.
- 6(37). *Asclepias syriaca* L.
Rare, river banks, sand bars.
- 7(38). *Asclepias verticillata* L.
Rare, prairie.

VIII. Araceae

- 1(39). *Arisaema triphyllum* (L.) Schott
Infrequent, woods.
- 2(40). *Lemna minor* L.
Very abundant locally, on spring-fed creek near entrance to river.
- 3(41). *Spirodela polyrrhiza* (L.) Schleid.
Infrequent, in water.

IX. Araliaceae

- 1(42). *Aralia nudicaulis* L.
Very abundant, especially slopes below the oak zone.

X. Asparagaceae

- 1(43). *Asparagus officinalis* L.
Rare, river bank.
- 2(44). *Maianthemum canadense* Desf.
Abundant, slopes, associated with birch and aspen.
- 3(45). *Maianthemum racemosum* (L.) Link
Infrequent, north-facing wooded slopes.
- 4(46). *Maianthemum stellatum* (L.) Link
Abundant, especially under oaks, north-facing slopes.
- 5(47). *Maianthemum trifolium* (L.) Sloboda
Rare.
- 6(48). *Polygonatum biflorum* (Walter) Elliott
Infrequent, north-facing wooded slopes.

XI. Asteraceae

- 1(49). *Achillea millefolium* L.
Infrequent, prairie and open areas.
- 2(50). *Achillea sibirica* Ledeb.
Rare, along river banks.
- 3(51). *Agoseris glauca* (Pursh) Raf.
Prairie. Absent from collections.
- 4(52). *Ambrosia artemisiifolia* L.
Abundant, especially on disturbed prairie.

- 5(53). *Ambrosia trifida* L.
Infrequent, especially sandbars of river and disturbed prairie.
- 6(54). *Antennaria howellii* Greene
Rare.
- 7(55). *Antennaria neglecta* Greene
Rare, prairie. Absent from collections.
- 8(56). *Antennaria parvifolia* Nutt.
Rare.
- 9(57). *Antennaria plantaginifolia* (L.) Richardson
Rare, woods. Absent from collections.
- 10(58). *Arctium minus* Bernh.
Abundant, especially banks of river and flood-plains near river.
- 11(59). *Artemisia absinthium* L.
Infrequent, sandbars and in open flood-plains of river.
- 12(60). *Artemisia campestris* L.
Rare, prairie.
- 13(61). *Artemisia dracunculus* L.
Needlegrass prairie. Absent from collections.
- 14(62). *Artemisia frigida* Willd.
Very abundant, especially on needlegrass prairie.
- 15(63). *Artemisia ludoviciana* Nutt.
Very abundant, prairie.
- 16(64). *Bidens cernua* L.
Rare, river and creek banks.
- 17(65). *Bidens frondosa* L.
River and creek banks. Absent from collections.
- 18(66). *Carduus nutans* L.
Rare.
- 19(67). *Cirsium arvense* (L.) Scop.
Infrequent, edges of swamp, river and creeks.
- 20(68). *Cirsium undulatum* (Nutt.) Spreng.
Prairie. Absent from collections.
- 21(69). *Cirsium vulgare* (Savi) Ten.
Infrequent, sand bars and woods near river.
- 22(70). *Conyza canadensis* (L.) Cronquist
Infrequent, disturbed prairie.
- 23(71). *Cyclachaena xanthifolia* (Nutt.) Fresen.
Infrequent, sandbars of river.
- 24(72). *Echinacea angustifolia* DC.
Rare, needlegrass prairie.
- 25(73). *Erigeron glabellus* Nutt.
North-facing slopes, in ravines and on prairie in and near woods. Absent from collections.
- 26(74). *Erigeron philadelphicus* L.
Infrequent, sandbars along river and on prairie near woods.
- 27(75). *Erigeron strigosus* Muhl. ex Willd.
Infrequent, prairie.
- 28(76). *Euthamia graminifolia* (L.) Nutt.
Abundant, especially on sand bars along river.
- 29(77). *Eutrochium maculatum* (L.) E.E. Lamont
Abundant, open swampy areas.

- 30(78). *Gaillardia aristata* Pursh
Prairie north-west of University Biology Area.
Absent from collections.
- 31(79). *Grindelia squarrosa* (Pursh) Dunal
Prairie. Absent from collections.
- 32(80). *Gutierrezia sarothrae* (Pursh) Britton & Rusby
West-facing slope opposite spring source,
south-west of University Biology Area. Absent from collections.
- 33(81). *Helianthus pauciflorus* Nutt.
Infrequent, prairie.
- 34(82). *Helianthus strumosus* L.
Rage, edge of woods near river.
- 35(83). *Heliopsis helianthoides* (L.) Sweet
Infrequent, edge of woods and along paths.
- 36(84). *Heterotheca villosa* (Pursh) Shinners
Abundant, locally on prairie.
- 37(85). *Hieracium canadense* Michx.
Rare.
- 38(86). *Hieracium umbellatum* L.
Rare, moist woods.
- 39(87). *Lactuca tatarica* (L.) C.A. Mey.
Prairie. Absent from collections.
- 40(88). *Liatis punctata* Hook.
Infrequent, prairie.
- 41(89). *Lygodesmia juncea* (Pursh) D. Don ex Hook.
Abundant, prairie.
- 42(90). *Oligoneuron rigidum* (L.) Small
Infrequent, prairie.
- 43(91). *Packera aurea* (L.) Á. Löve & D. Löve
Infrequent, swampy areas and along creeks.
- 44(92). *Packera plattensis* (Nutt.) W.A. Weber & Á. Löve
Infrequent, prairie.
- 45(93). *Prenanthes alba* L.
Infrequent, woods.
- 46(94). *Ratibida columnifera* (Nutt.) Woot. & Standl.
Infrequent, though conspicuous on prairie.
- 47(95). *Rudbeckia hirta* L.
Prairie. Absent from collections.
- 48(96). *Rudbeckia laciniata* L.
Infrequent to abundant, edge of woods near river and creeks.
- 49(97). *Senecio congestus* (R. Br.) DC.
Infrequent, swampy area south-west of largest beaver dam.
- 50(98). *Solidago canadensis* L.
Infrequent, woody slopes.
- 51(99). *Solidago flexicaulis* L.
Woods on north-facing slopes. Absent from collections.
- 52(100). *Solidago gigantea* Aiton
Abundant, especially on sand bars along river.
- 53(101). *Solidago missouriensis* Nutt.
Abundant, prairie.
- 54(102). *Solidago mollis* Bartlett
Prairie. Absent from collections.
- 55(103). *Solidago nemoralis* Aiton
Infrequent, prairie.
- 56(104). *Sonchus arvensis* L.
Infrequent, sand bars of river.
- 57(105). *Sonchus asper* (L.) Hill
Infrequent, edges of creek and river.
- 58(106). *Symphyotrichum ascendens* (Lindl.) G.L.
Nesom
Rare.
- 59(107). *Symphyotrichum ciliatum* (Ledeb.) G.L.
Nesom
Rare.
- 60(108). *Symphyotrichum ciliolatum* (Lindl.) Á. Löve & D. Löve
Rare, open areas within woods.
- 61(109). *Symphyotrichum cordifolium* (L.) G.L.
Nesom
Moist wooded slopes. Absent from collections.
- 62(110). *Symphyotrichum ericoides* (L.) G.L.
Nesom
Abundant, prairie.
- 63(111). *Symphyotrichum laeve* (L.) Á. Löve & D. Löve
Abundant, prairie and woods.
- 64(112). *Symphyotrichum lanceolatum* (Willd.) G.L.
Nesom
Rare.
- 65(113). *Symphyotrichum oblongifolium* (Nutt.) G.L. Nesom
Infrequent, prairie slopes north-west of University Biology Area.
- 66(114). *Symphyotrichum praealtum* (Poir.) G.L.
Nesom
Infrequent, prairie.
- 67(115). *Symphyotrichum puniceum* (L.) Á. Löve & D. Löve
Rare, around spring.
- 68(116). *Tanacetum vulgare* L.
Infrequent, flood-plains near river.
- 69(117). *Taraxacum laevigatum* (Willd.) DC.
Moist wooded slopes especially on south-west.
Absent from collections.
- 70(118). *Taraxacum officinale* F.H. Wigg.
River and creek banks. Absent from collections.
- 71(119). *Tragopogon dubius* Scop.
Infrequent, prairie.

- 72(120). *Tripleurospermum perforatum* (Mérat) M. Lainz
Rare, banks of river.
- 73(121). *Vernonia baldwinii* Torr.
Rare.
- 74(122). *Vernonia fasciculata* Michx.
Rare.
- 75(123). *Xanthium strumarium* L.
Very abundant, especially sandbars of river.

XII. Balsaminaceae

- 1(124). *Impatiens capensis* Meerb.
Abundant low area on old trail, south-east ravine.
- 2(125). *Impatiens pallida* Nutt.
Abundant, spring-fed creek, south-west.

XIII. Betulaceae

- 1(126). *Betula papyrifera* Marsh.
Abundant, slopes.
- 2(127). *Corylus americana* Walter
Very abundant, especially north-facing slopes below oak zone and along river and creeks.
- 3(128). *Corylus cornuta* Marsh.
Very abundant, especially near river and creeks.
- 4(129). *Ostrya virginiana* (Mill.) K. Koch
Infrequent, bank of river, south of sandbar, also ravine on west boundary near river.

XIV. Boraginaceae

- 1(130). *Cynoglossum officinale* L.
Rare, flood plains of river.
- 2(131). *Hackelia deflexa* (Wahlenb.) Opiz
Abundant, woods.
- 3(132). *Hackelia virginiana* (L.) I.M. Johnst.
Rare, woods.
- 4(133). *Lappula squarrosa* (Retz.) Dumort.
Abundant, along river banks.
- 5(134). *Lithospermum canescens* (Michx.) Lehm.
Abundant, prairie, pathways and open areas within woods.
- 6(135). *Lithospermum incisum* Lehm.
Absent from collections.
- 7(136). *Onosmodium bejariense* DC. ex A. DC.
Prairie. Absent from collections.

XV. Brassicaceae

- 1(137). *Arabis drummondii* A. Gray
Rare, woods.
- 2(138). *Arabis holboellii* Hornem.
Rare, ruderal habitats.
- 3(139). *Capsella bursa-pastoris* (L.) Medik.
Infrequent, river sand bars and banks, locally disturbed areas.
- 4(140). *Cardamine pensylvanica* Muhl. ex Willd.
Infrequent, spring-fed creek ravine.

- 5(141). *Descurainia incana* (Bernh. ex Fisch. & C.A. Mey.) Dorn
South-west bromegrass field. Absent from collections.
- 6(142). *Descurainia pinnata* (Walter) Britton
South-west bromegrass field. Absent from collections.
- 7(143). *Draba nemorosa* L.
Rare, prairie.
- 8(144). *Draba reptans* (Lam.) Fernald
Rare, prairie.
- 9(145). *Erysimum cheiranthoides* L.
Infrequent, woods.
- 10(146). *Erysimum inconspicuum* (S. Watson) MacMill.
Infrequent, prairie.
- 11(147). *Lepidium densiflorum* Schrad.
Infrequent, river sand bars and banks, locally disturbed areas.
- 12(148). *Lepidium virginicum* L.
Sand bars, locally disturbed areas. Absent from collections.
- 13(149). *Lesquerella arenosa* (Richardson) Rydb.
Rare, sand bars.
- 14(150). *Rorippa islandica* (Oeder) Borbás
Rare, wet sand bar, North boundary.
- 15(151). *Rorippa palustris* (L.) Besser
Rare, banks of river.
- 16(152). *Sinapis arvensis* L.
Infrequent, river and creek banks
- 17(153). *Sisymbrium altissimum* L.
Infrequent, river sand bars and banks; locally disturbed areas.
- 18(154). *Sisymbrium loeselii* L.
Infrequent, animal diggings, prairie.
- 19(155). *Sisymbrium officinale* (L.) Scop.
River sand bars and banks, locally disturbed areas.
Absent from collections.
- 20(156). *Thlaspi arvense* L.
Infrequent, sand bars of river.

XVI. Campanulaceae

- 1(157). *Campanula rapunculoides* L.
Rare.
- 2(158). *Campanula rotundifolia* L.
Infrequent, prairie, openings in woods.
- 3(159). *Lobelia spicata* Lam.
Rare.

XVII. Cannabaceae

- 1(160). *Humulus lupulus* L.
Infrequent but conspicuous, woods.

XVIII. Caprifoliaceae

- 1(161). *Lonicera dioica* L.
Abundant, woods, especially south and east of river.

- 2(162). *Lonicera morrowii* A. Gray
Rare. Ambiguous.
- 3(163). *Symporicarpos albus* (L.) S.F. Blake
Abundant, woods.
- 4(164). *Symporicarpos occidentalis* Hook.
Very abundant, edge of woods and on prairie, also open areas within woods.

XIX. Caryophyllaceae

- 1(165). *Cerastium arvense* L.
Abundant locally, prairie.
- 2(166). *Cerastium nutans* Raf.
Infrequent, edge of spring-fed creek.
- 3(167). *Moehringia lateriflora* (L.) Fenzl
Abundant, edge of woods, open ares in woods.
- 4(168). *Stellaria longifolia* Muhl. ex Willd.
Abundant, edge of creeks and wet and bars of river.

XX. Celastraceae

- 1(169). *Celastrus scandens* L.
Infrequent, woodland.

XXI. Convolvulaceae

- 1(170). *Calystegia sepium* (L.) R. Br.
Rare, edge of woods, along river banks.
- 2(171). *Convolvulus arvensis* L.
Bromegrass field, river banks. Absent from collections.
- 3(172). *Cuscuta gronovii* Willd. ex Schult.
Edge of woods on *Symporicarpos occidentalis*.
Absent from collections.

XXII. Cornaceae

- 1(173). *Cornus sericea* L.
Abundant, ravine beds, and other wooded slopes.

XXIII. Cucurbitaceae

- 1(174). *Echinocystis lobata* (Michx.) Torr. & A. Gray
Abundant, river banks and open flood-plains.

XXIV. Cyperaceae

- 1(175). *Carex aquatilis* Wahlenb.
Abundant along river banks.
- 2(176). *Carex assiniboinensis* W. Boott
Rare, north-facing and east-facing birch slopes,
also base of ravines under basswood.
- 3(177). *Carex atherodes* Spreng.
Rare, along river banks.
- 4(178). *Carex aurea* Nutt.
North-facing wooded slopes. Absent from collections.
- 5(179). *Carex bebbii* Olney ex Fernald
Edge of spring-fed creek. Absent from collections.
- 6(180). *Carex blanda* Dewey
Woods. Absent from collections.

- 7(181). *Carex brevior* (Dewey) Mack.
Open areas in oak woods. Absent from collections.
- 8(182). *Carex conjuncta* Boott
Wooded flood plains. Absent from collections.
- 9(183). *Carex deweyana* Schwein.
Abundant, north-facing slopes under birch and associates.
- 10(184). *Carex diandra* Schrank
Beaver-swamp. Absent from collections.
- 11(185). *Carex duriuscula* C.A. Mey.
Abundant, dry prairie associated with needlegrass.
- 12(186). *Carex eburnea* Boott
In moss near base of trees, north-facing slopes.
Absent from collections.
- 13(187). *Carex echinata* Murray
Flood-plain and terrace woods, especially in woods near river and creeks. Absent from collections.
- 14(188). *Carex emoryi* Dewey
Rare, banks of river.
- 15(189). *Carex granularis* Muhl. ex Willd.
Rare, wooded terraces, and flood-plains, moist wooded banks near creeks.
- 16(190). *Carex gravida* L.H. Bailey
Rare, flood-plain woods.
- 17(191). *Carex hystericina* Muhl. ex Willd.
Rare, edge of beaver-swamp.
- 18(192). *Carex laeviconica* Dewey
Edge of beaver-swamp. Absent from collections.
- 19(193). *Carex laxiflora* Lam.
Rare, eastern ravine.
- 20(194). *Carex mackenziei* Krecz.
Rare. Ambiguous.
- 21(195). *Carex peckii* Howe
Rare, north-facing slopes and terraces.
- 22(196). *Carex pellita* Muhl. ex Willd.
Infrequent, beaver-swamp.
- 23(197). *Carex pensylvanica* Lam.
Most abundant sedge in the Area, occurring in all wooded area and on prairie within woods.
- 24(198). *Carex praegracilis* W. Boott
Gravel slopes. Absent from collections.
- 25(199). *Carex pseudocyperus* L.
Along river, seepage areas from creeks and beaver-swamp. Absent from collections.
- 26(200). *Carex retrorsa* Schwein.
Abundant, moist woods and beaver-swamp.
- 27(201). *Carex rosea* Schkuhr ex Willd.
Abundant, north-facing slopes and on slopes near creeks.
- 28(202). *Carex rostrata* Stokes
Rare, edge of river and beaver-swamp.
- 29(203). *Carex saximontana* Mack.
Rare, oak woods.
- 30(204). *Carex scoparia* Schkuhr ex Willd.
Infrequent, woods near creeks and river.

- 31(205). *Carex sprengelii* Dewey ex Spreng.
Abundant locally, especially edge of woods under oaks.
- 32(206). *Carex stipata* Muhl. ex Willd.
Abundant, in boggy areas along creeks.
- 33(207). *Carex tenera* Dewey
Infrequent, north-facing slopes.
- 34(208). *Carex tetanica* Schkuhr
Infrequent, north-facing wooded slopes under birches and associates.
- 35(209). *Carex torreyi* Tuck.
Infrequent, north-facing wooded slopes.
- 36(210). *Carex tribuloides* Wahlenb.
Rare, banks of river.
- 37(211). *Carex vulpinoidea* Michx.
Abundant, along creeks and river.
- 38(212). *Carex × subimpressa* Clokey
Wooded flood-plains of river. Absent from collections.
- 39(213). *Eleocharis engelmannii* Steud.
Along river, seepage areas from creeks. Absent from collections.
- 40(214). *Eleocharis erythropoda* Steud.
Abundant, along river.
- 41(215). *Eleocharis palustris* (L.) Roem. & Schult.
River banks, seepage areas from creeks, along spring-fed creek. Absent from collections.
- 42(216). *Schoenoplectus americanus* (Pers.) Volkart ex Schinz & R. Keller
Infrequent, along river.
- 43(217). *Schoenoplectus fluviatilis* (Torr.) M.T.
Strong
Rare.
- 44(218). *Schoenoplectus tabernaemontani* (C.C. Gmel.) Palla
Infrequent, along river.
- 45(219). *Scirpus atrovirens* Willd.
Infrequent, along river and eastern spring.
- 46(220). *Scirpus microcarpus* J. Presl & C. Presl
Infrequent, along river.

XXV. Elaeagnaceae

- 1(221). *Elaeagnus commutata* Bernh. ex Rydb.
Abundant, edge of woods.

XXVI. Equisetaceae

- 1(222). *Equisetum arvense* L.
Abundant, sand bars and flood-plains of river.
- 2(223). *Equisetum hyemale* L.
Abundant locally, on moist slopes of river, creeks and ravines.
- 3(224). *Equisetum laevigatum* A. Braun
In moist areas. Absent from collections.
- 4(225). *Equisetum pratense* Ehrh.
Rare, along edges of wet river banks, creek outlets, seepage areas.

XXVII. Ericaceae

- 1(226). *Orthilia secunda* (L.) House
Very rare, two small colonies on north-facing slopes.

XXVIII. Euphorbiaceae

- 1(227). *Chamaesyce serpyllifolia* (Pers.) Small
Prairie, river banks. Absent from collections.
- 2(228). *Euphorbia esula* L.
Abundant, prairie.

XXIX. Fabaceae

- 1(229). *Amorpha canescens* Pursh
Abundant, prairie.
- 2(230). *Amorpha fruticosa* L.
Very rare, base of prairie extension south-west University Biology Area.
- 3(231). *Amphicarpaea bracteata* (L.) Fernald
Abundant, river and creek banks.
- 4(232). *Astragalus agrestis* Douglas ex G. Don
Rare, prairie.
- 5(233). *Astragalus crassicarpus* Nutt.
Prairie slopes. Absent from collections.
- 6(234). *Astragalus lotiflorus* Hook.
Prairie. Absent from collections.
- 7(235). *Astragalus missouriensis* Nutt.
Rare.
- 8(236). *Dalea candida* Michx. ex Willd.
Infrequent, prairie.
- 9(237). *Dalea purpurea* Vent.
Infrequent, prairie.
- 10(238). *Desmodium canadense* (L.) DC.
Rare.
- 11(239). *Desmodium illinoense* A. Gray
Rare, edge of woods.
- 12(240). *Glycyrrhiza lepidota* Pursh
Infrequent, river banks and prairie.
- 13(241). *Lathyrus ochroleucus* Hook.
Infrequent, among shrubs at edge of prairie and along paths within woodland.
- 14(242). *Lathyrus venosus* Muhl. ex Willd.
Infrequent, among shrubs edge of prairie and along paths within woodland.
- 15(243). *Medicago lupulina* L.
Rare, roadside.
- 16(244). *Medicago sativa* L.
River banks. Absent from collections.
- 17(245). *Melilotus officinalis* (L.) Lam.
Infrequent, river banks and disturbed prairie.
- 18(246). *Oxytropis lambertii* Pursh
Infrequent, drier prairie.
- 19(247). *Pediomelum argophyllum* (Pursh) J. Grimes
Infrequent, prairie.
- 20(248). *Pediomelum esculentum* (Pursh) Rydb.
Infrequent, prairie.

- 21(249). *Trifolium repens* L.
Abundant locally, stabilized sand bar north side of river.
- 22(250). *Vicia americana* Muhl. ex Willd.
Infrequent, prairie, river banks.
- 23(251). *Vicia sativa* L.
Infrequent, bromegrass field.

XXX. Fagaceae

- 1(252). *Quercus macrocarpa* Michx.
Very abundant, edge of prairie on north-facing slopes frequently extending into ravines, on south-facing slopes extends from prairie to river banks or flood plains. Abundant on terraces, infrequent on floodplains.

XXXI. Gentianaceae

- 1(253). *Gentiana andrewsii* Griseb.
Very rare, north-facing slope under birches.

XXXII. Geraniaceae

- 1(254). *Geranium carolinianum* L.
Rare.

XXXIII. Hydrocharitaceae

- 1(255). *Elodea canadensis* Michx.
Rare, in water.
- 2(256). *Elodea nuttallii* (Planch.) H. St. John
In water along banks below rapids in river, also in spring-fed creek below beaver-dams. Absent from collections.

XXXIV. Hydrophyllaceae

- 1(257). *Ellisia nyctelea* (L.) L.
Infrequent, under trees, especially north-facing slopes and terraces.
- 2(258). *Hydrophyllum virginianum* L.
Abundant, flood plains of river and ravines.

XXXV. Iridaceae

- 1(259). *Sisyrinchium montanum* Greene
Prairie. Absent from collections.

XXXVI. Juncaceae

- 1(260). *Juncus arcticus* Willd.
Infrequent, wet sand bars of river.
- 2(261). *Juncus bufonius* L.
Infrequent, edge of river sand bar.
- 3(262). *Juncus canadensis* J. Gay ex Laharpe
Rare.
- 4(263). *Juncus dudleyi* Wiegand
Rare.
- 5(264). *Juncus interior* Wiegand
Wet sand bars of river. Absent from collections.
- 6(265). *Juncus longistylis* Torr.
Abundant, wet sand bars of river.
- 7(266). *Juncus nodosus* L.
Abundant, wet sand bars of river.

XXXVII. Lamiaceae

- 1(267). *Agastache foeniculum* (Pursh) Kuntze
Abundant, woods.
- 2(268). *Galeopsis tetrahit* L.
Rare.
- 3(269). *Hedeoma hispida* Pursh
Drier prairie. Absent from collections.
- 4(270). *Leonurus cardiaca* L.
Abundant, woods, especially on flood-plains near river.
- 5(271). *Lycopus americanus* Muhl. ex W. Bartram
Rare, river and spring-fed creek edges.
- 6(272). *Mentha arvensis* L.
Abundant locally, swampy areas along creeks and river.
- 7(273). *Monarda fistulosa* L.
Abundant, prairie near woods and on flood-plains of river.
- 8(274). *Nepeta cataria* L.
Infrequent, woods.
- 9(275). *Physostegia parviflora* Nutt. ex A. Gray
Abundant locally, swampy areas along spring-fed creek.
- 10(276). *Salvia × sylvestris* L.
Rare.
- 11(277). *Scutellaria galericulata* L.
Infrequent, marshy places along river and spring-fed creek.
- 12(278). *Scutellaria lateriflora* L.
Rare.
- 13(279). *Scutellaria parvula* Michx.
Edges of river and creeks. Absent from collections.
- 14(280). *Stachys palustris* L.
Abundant, edges of river, swamp and spring-fed creek, also all swampy areas.

XXXVIII. Liliaceae

- 1(281). *Lilium philadelphicum* L.
Rare, end of prairie extensions into woods, north-facing slopes.

XXXIX. Linaceae

- 1(282). *Linum rigidum* Pursh
Prairie. Absent from collections.

XL. Malvaceae

- 1(283). *Tilia americana* L.
Abundant, especially south side of river below oak zone.

XLI. Melanthiaceae

- 1(284). *Trillium cernuum* L.
Infrequent, birch and aspen slopes; rare elsewhere.
- 2(285). *Zigadenus elegans* Pursh
Very rare, end of prairie extensions into woods, north-facing slopes.

- XLII. Menispermaceae**
- 1(286). *Menispermum canadense* L.
Rare, moist woods and river banks.
- XLIII. Nyctaginaceae**
- 1(287). *Mirabilis hirsuta* (Pursh) MacMill.
Rare, west-facing prairie slopes.
- 2(288). *Mirabilis nyctaginea* (Michx.) MacMill.
Rare, prairie, west boundary.
- XLIV. Nymphaeaceae**
- 1(289). *Nuphar lutea* (L.) Sm.
Rare.
- XLV. Oleaceae**
- 1(290). *Fraxinus pennsylvanica* Marsh.
Very abundant, particularly seedlings and saplings.
- XLVI. Onagraceae**
- 1(291). *Calylophus serrulatus* (Nutt.) P.H. Raven
Abundant, prairie.
- 2(292). *Circaeaa lutetiana* L.
Abundant locally, especially bases of north-facing slopes.
- 3(293). *Epilobium ciliatum* Raf.
Infrequent, boggy banks of creek and river, beaver-swamp.
- 4(294). *Epilobium leptophyllum* Raf.
Rare.
- 5(295). *Gaura coccinea* Nutt. ex Pursh
Prairie. Absent from collections.
- 6(296). *Oenothera biennis* L.
Infrequent, prairie and river banks. Absent from collections.
- 7(297). *Oenothera nuttallii* Sweet
Infrequent, prairie.
- 8(298). *Oenothera rhombipetala* Nutt. ex Torr. & A. Gray
Rare.
- 9(299). *Oenothera villosa* Thunb.
Rare.
- XLVII. Ophioglossaceae**
- 1(300). *Botrychium virginianum* (L.) Sw.
Infrequent, on slopes with birch and aspen.
- 2(301). *Ophioglossum vulgatum* L.
Rare.
- XLVIII. Orchidaceae**
- 1(302). *Corallorrhiza maculata* (Raf.) Raf.
Rare, under birches and, in a moist ravine, under oaks.
- 2(303). *Corallorrhiza striata* Lindl.
Rare.
- 3(304). *Cypripedium parviflorum* Salisb.
Boggy area among meadow horsetails, under aspens and willows, near source of spring-fed creek. Absent from collections.
- 4(305). *Dactylorhiza viridis* (L.) R.M. Bateman, A.M. Pridgeon & M.W. Chase
Rare, spring-fed creek ravine.
- 5(306). *Platanthera aquilonis* Sheviak
Rare, spring-fed creek ravine and under hazels.
- XLIX. Orobanchaceae**
- 1(307). *Orobanche fasciculata* Nutt.
Prairie; growing on roots of prairie sagewort. Absent from collections.
- 2(308). *Orthocarpus luteus* Nutt.
Rare.
- 3(309). *Pedicularis canadensis* L.
Rare, east-facing slope, north boundary.
- L. Oxalidaceae**
- 1(310). *Oxalis stricta* L.
Abundant, woods and prairie.
- LI. Papaveraceae**
- 1(311). *Corydalis aurea* Willd.
Infrequent, flood-plains near river.
- 2(312). *Sanguinaria canadensis* L.
Infrequent, lowest terrace, north-facing woods, also among shrubs near old creek bed.
- LII. Phrymaceae**
- 1(313). *Mimulus glabratus* Kunth
Infrequent, edge of spring-fed creek.
- 2(314). *Mimulus guttatus* DC.
Abundant locally, along source of spring-fed creek.
- 3(315). *Mimulus ringens* L.
Rare, edge of spring-fed creek.
- 4(316). *Phryma leptostachya* L.
Abundant, woods especially on north-facing slopes.
- LIII. Plantaginaceae**
- 1(317). *Hippuris vulgaris* L.
Rare.
- 2(318). *Penstemon albidus* Nutt.
Infrequent, prairie.
- 3(319). *Penstemon gracilis* Nutt.
Infrequent, prairie.
- 4(320). *Plantago major* L.
Infrequent, river and creek banks.
- 5(321). *Veronica americana* Schwein. ex Benth.
Abundant, along river and creeks.
- 6(322). *Veronica anagallis-aquatica* L.
Abundant, along river and creeks.
- LIV. Poaceae**
- 1(323). *Agropyron cristatum* (L.) Gaertn.
Rare, disturbed prairie.

- 2(324). *Agrostis gigantea* Roth
Infrequent, prairie and other open areas.
- 3(325). *Agrostis perennans* (Walter) Tuck.
Rare, woods.
- 4(326). *Agrostis scabra* Willd.
Rare, base of trees, north-facing slopes.
- 5(327). *Andropogon gerardii* Vitman
Abundant, woods and prairie borders.
- 6(328). *Avena fatua* L.
Rare, along river bank.
- 7(329). *Beckmannia syzigachne* (Steud.) Fernald
River and creek banks. Absent from collections.
- 8(330). *Bouteloua curtipendula* (Michx.) Torr.
Abundant, moister prairie, especially south-west and southeast extensions into woodlands.
- 9(331). *Bouteloua gracilis* (Willd. ex Kunth) Lag.
ex Griffiths
Very abundant, dry prairie in area associated with needlegrass.
- 10(332). *Bromus ciliatus* L.
Edge of woods, open areas within woods. Absent from collections.
- 11(333). *Bromus inermis* Leyss.
Very abundant since south-west field was previously planted with it.
- 12(334). *Bromus kalmii* A. Gray
Rare, edge of woods, open areas within woods.
- 13(335). *Bromus latiglumis* (Shear) Hitchc.
Rare, woody slopes.
- 14(336). *Calamagrostis canadensis* (Michx.) P. Beauv.
Rare, woody slopes.
- 15(337). *Calamagrostis stricta* (Timm) Koeler
Rare, banks of river.
- 16(338). *Calamovilfa longifolia* (Hook.) Scribn.
Infrequent, south-facing prairie slopes.
- 17(339). *Catabrosa aquatica* (L.) P. Beauv.
Very abundant, along creeks and swamps.
- 18(340). *Dichanthelium leibergii* (Vasey) Freckmann
Infrequent, along paths in woods, partially shaded areas within woods.
- 19(341). *Echinochloa crus-galli* (L.) P. Beauv.
Abundant, river banks and swamps.
- 20(342). *Elymus canadensis* L.
Rare, sand bars of river.
- 21(343). *Elymus hystrix* L.
Abundant locally, in woods.
- 22(344). *Elymus interruptus* Buckley
Infrequent, flood-plains, paths and open areas in woods.
- 23(345). *Elymus lanceolatus* (Scribn. & J.G. Sm.) Gould
Rare.
- 24(346). *Elymus repens* (L.) Gould
Abundant locally, edge of spring-creek, river banks, sand flats, exposed disturbed areas.
- 25(347). *Elymus trachycaulus* (Link) Gould ex Shinners
Infrequent, prairie, edge of woods, open areas within woods.
- 26(348). *Elymus villosus* Muhl. ex Willd.
Infrequent, woods, flood-plains
- 27(349). *Elymus virginicus* L.
Infrequent, flood-plains, river banks, open areas in woods, edge of woods.
- 28(350). *Eragrostis cilianensis* (All.) Vign. ex Janchen
Infrequent, river sand bars.
- 29(351). *Eragrostis hypnoides* (Lam.) Britton, Sterns & Poggenb.
River sand bars. Absent from collections.
- 30(352). *Festuca subverticillata* (Pers.) Alexeev
Abundant, woods.
- 31(353). *Glyceria grandis* S. Watson
Abundant locally, edge of river.
- 32(354). *Glyceria striata* (Lam.) Hitchc.
Abundant locally, edge of river.
- 33(355). *Hesperostipa comata* (Trin. & Rupr.) Barkworth
Abundant locally, on driest prairie within area.
- 34(356). *Hesperostipa spartea* (Trin.) Barkworth
Infrequent, moister prairie, e.g. on prairie slope below zone of needlegrass.
- 35(357). *Hierochloe odorata* (L.) P. Beauv.
Rare.
- 36(358). *Hordeum jubatum* L.
Infrequent, river sand bars, disturbed areas.
- 37(359). *Koeleria macrantha* (Ledeb.) Schult.
Infrequent, prairie, open areas in woods.
- 38(360). *Leersia oryzoides* (L.) Sw.
Abundant, edge of spring-fed creek below beaver dams and along edges of river.
- 39(361). *Muhlenbergia cuspidata* (Torr. ex Hook.) Rydb.
Rare, steep south-facing prairie slope overlooking Forest River, west boundary.
- 40(362). *Muhlenbergia frondosa* (Poir.) Fernald
North- and westfacing wooded slopes. Absent from collections.
- 41(363). *Muhlenbergia mexicana* (L.) Trin.
Rare, wooded flood-plains.
- 42(364). *Muhlenbergia racemosa* (Michx.) Britton, Sterns & Poggenb.
Abundant, especially on north- and southfacing slopes.
- 43(365). *Muhlenbergia richardsonis* (Trin.) Rydb.
Rare.
- 44(366). *Nassella viridula* (Trin.) Barkworth
Infrequent, prairie.

- 45(367). *Oryzopsis asperifolia* Michx.
Abundant, especially on north-facing wooded slopes and terraces.
- 46(368). *Panicum capillare* L.
Infrequent to abundant, sand bars and banks of river.
- 47(369). *Patis racemosa* (Sm.) Romasch., P.M. Peterson & R. J. Soreng
Infrequent, lower slopes.
- 48(370). *Phalaris arundinacea* L.
Infrequent, banks of river.
- 49(371). *Phleum pratense* L.
Infrequent, moist areas spring-fed creek ravine and river banks.
- 50(372). *Poa compressa* L.
Infrequent, moist prairie.
- 51(373). *Poa nemoralis* L.
Rare, dry prairie slopes, south-facing on west boundary, west-facing on south-west boundary.
- 52(374). *Poa palustris* L.
Very abundant locally, banks of spring-fed creek and river, seepage areas.
- 53(375). *Poa pratensis* L.
Very abundant, prairie edge of woods and open areas within woodland. Dominant grass.
- 54(376). *Poa secunda* J. Presl
Rare, moist woods.
- 55(377). *Schizachne purpurascens* (Torr.) Swallen
Infrequent, in woods.
- 56(378). *Schizachyrium scoparium* (Michx.) Nash
Infrequent, prairie.
- 57(379). *Setaria pumila* (Poir.) Roem. & Schult.
Infrequent, sandbars along river.
- 58(380). *Setaria viridis* (L.) P. Beauv.
Infrequent, sandbars along river.
- 59(381). *Spartina pectinata* Bosc ex Link
Infrequent.
- 60(382). *Sphenopholis intermedia* (Rydb.) Rydb.
Infrequent, sandbar of river, and near beaver dam on spring-fed creek.
- 61(383). *Sporobolus cryptandrus* (Torr.) A. Gray
Infrequent, west-facing prairie slopes south boundary; south-facing prairie slopes north boundary.
- 62(384). *×Elyhordeum macounii* (Vasey)
Barkworth & D.R. Dewey
River bank. Absent from collections.
- 63(385). *Zizania aquatica* L.
Infrequent, in Forest River. More frequent in years when river level low.

LV. Polemoniaceae

- 1(386). *Collomia linearis* Nutt.
Abundant locally on dry prairie.

LVI. Polygonaceae

- 1(387). *Polygonum achoreum* S.F. Blake
Sand bars of river. Absent from collections.
- 2(388). *Polygonum amphibium* L.
Near river sand bar. Absent from collections.
- 3(389). *Polygonum aviculare* L.
Sand bars of river and field roads into Area.
Absent from collections.
- 4(390). *Polygonum convolvulus* L.
Infrequent, river sandbars and banks.
- 5(391). *Polygonum hydropiper* L.
Very abundant locally along spring-fed creek below beaver dams.
- 6(392). *Polygonum lapathifolium* L.
Infrequent, banks of river and creeks.
- 7(393). *Polygonum pensylvanicum* L.
Infrequent, sand bars along river.
- 8(394). *Polygonum persicaria* L.
Infrequent, boggy sand-bar along river.
- 9(395). *Rumex aquaticus* L.
Near beaver dams. Absent from collections.
- 10(396). *Rumex crispus* L.
Beaver-swamp. Absent from collections.
- 11(397). *Rumex longifolius* DC.
Rare, banks of river.
- 12(398). *Rumex maritimus* L.
Infrequent, sand bars along river.

LVII. Polypodiaceae

- 1(399). *Athyrium filix-femina* (L.) Roth
Very rare, one colony located in easternmost ravine.
- 2(400). *Onoclea struthiopteris* (L.) Hoffm.
Abundant, ravine south of Forest River bend.

LVIII. Pontederiaceae

- 1(401). *Heteranthera dubia* (Jacq.) MacMill.
Rare.

LIX. Potamogetonaceae

- 1(402). *Potamogeton amplifolius* Tuck.
In river where water flowing more slowly. Absent from collections.
- 2(403). *Potamogeton foliosus* Raf.
Rare, beaver-swamp.
- 3(404). *Potamogeton zosteriformis* Fernald
In river where water flowing more slowly. Absent from collections.
- 4(405). *Stuckenia filiformis* (Pers.) Börner
Infrequent, in water.
- 5(406). *Stuckenia pectinata* (L.) Börner
Abundant, in river near banks.
- 6(407). *Stuckenia vaginata* (Turcz.) Holub
Rare.

LX. Primulaceae

- 1(408). *Androsace occidentalis* Pursh
Abundant, prairie.
- 2(409). *Lysimachia ciliata* L.
Infrequent, edge of woods.
- LXI. Ranunculaceae**
- 1(410). *Actaea rubra* (Aiton) Willd.
Abundant, moister wooded slopes and terraces.
- 2(411). *Anemone canadensis* L.
Abundant, edge of creeks, moist ravines and slopes.
- 3(412). *Anemone cylindrica* A. Gray
Infrequent, prairie.
- 4(413). *Anemone virginiana* L.
Infrequent, woods.
- 5(414). *Aquilegia canadensis* L.
Infrequent, north-facing wooded slopes, ravine slopes.
- 6(415). *Caltha palustris* L.
Rare, spring-fed creek.
- 7(416). *Clematis virginiana* L.
Infrequent but conspicuous, river banks, open areas on floodplains of river.
- 8(417). *Delphinium carolinianum* Walter
Moist prairie. Absent from collections.
- 9(418). *Pulsatilla patens* (L.) Mill.
Very rare, prairie.
- 10(419). *Ranunculus abortivus* L.
Infrequent, woods, edge of woods.
- 11(420). *Ranunculus aquatilis* L.
Near river banks. Absent from collections.
- 12(421). *Ranunculus cymbalaria* Pursh
Abundant locally, edge of river on sand bars.
- 13(422). *Ranunculus macounii* Britton
Infrequent, edge of spring-fed creek.
- 14(423). *Ranunculus pensylvanicus* L. f.
Rare, edge of spring-fed creek.
- 15(424). *Ranunculus recurvatus* Poir.
Rare.
- 16(425). *Ranunculus rhomboideus* Goldie
Infrequent, prairie extensions between woods.
- 17(426). *Ranunculus sceleratus* L.
Infrequent, dried swamp bed.
- 18(427). *Thalictrum dasycarpum* Fisch. & Avé-Lall.
Abundant, woods.
- 19(428). *Thalictrum venulosum* Trel.
Abundant, edge of woods.

LXII. Rhamnaceae

- 1(429). *Rhamnus cathartica* L.
Infrequent, woods.

LXIII. Rosaceae

- 1(430). *Amelanchier alnifolia* (Nutt.) Nutt. ex M. Roem.
Very abundant, edge of woods, open areas withing woods.
- 2(431). *Amelanchier humilis* Wiegand
Rare, edge of woods.
- 3(432). *Argentina anserina* (L.) Rydb.
Infrequent, sand bars of river.
- 4(433). *Crataegus chrysocarpa* Ashe
Abundant, edge of woods, north boundary prairie.
- 5(434). *Fragaria virginiana* Duchesne
Abundant, woods.
- 6(435). *Geum aleppicum* Jacq.
Infrequent.
- 7(436). *Geum canadense* Jacq.
Abundant, flood-plains of river and lower terraces of north-facing slopes.
- 8(437). *Geum macrophyllum* Willd.
Rare.
- 9(438). *Geum triflorum* Pursh
Infrequent, slopes.
- 10(439). *Potentilla argentea* L.
Rare.
- 11(440). *Potentilla concinna* Richardson
Rare.
- 12(441). *Potentilla norvegica* L.
Infrequent, sand bars of river.
- 13(442). *Potentilla paradoxa* Nutt.
Rare.
- 14(443). *Potentilla pensylvanica* L.
Infrequent, prairie.
- 15(444). *Prunus americana* Marsh.
Abundant, flood-plains of river, infrequent in woods elsewhere.
- 16(445). *Prunus pensylvanica* L. f.
Very rare, woods south of river, slope overlooking ravine; also on wooded terrace east of river.
- 17(446). *Prunus virginiana* L.
Very abundant, edge of woods and throughout woods.
- 18(447). *Rosa arkansana* Porter
Abundant, prairie.
- 19(448). *Rosa blanda* Aiton
Abundant, edge of woods, open areas in woods.
- 20(449). *Rubus idaeus* L.
Abundant, edge of woods, open areas in woods north-facing slope.
- 21(450). *Rubus pubescens* Raf.
Steep north-facing slope, associated with wintergreen and dogwood. Absent from collections.
- 22(451). *Spiraea alba* Du Roi
Infrequent, edge of woods.

LXIV. Rubiaceae

- 1(452). *Galium aparine* L.
Abundant, especially on prairie near woods.
- 2(453). *Galium boreale* L.
Abundant, woods.
- 3(454). *Galium trifidum* L.
Along creeks and on moist wooded slopes. Absent from collections.
- 4(455). *Galium triflorum* Michx.
Abundant, woods.

LXV. Salicaceae

- 1(456). *Populus balsamifera* L.
Rare, young growth below steep bank to west boundary.
- 2(457). *Populus deltoides* Bartram ex Marsh.
One tree, flood-plain of river. Absent from collections.
- 3(458). *Populus tremuloides* Michx.
Abundant locally, slopes.
- 4(459). *Salix amygdaloidea* Andersson
Infrequent, sand bars of river.
- 5(460). *Salix bebbiana* Sarg.
Infrequent, ravine of spring-fed creek south of beaver dams.
- 6(461). *Salix cordata* Michx.
Sand bars of river, ravine of spring-fed creek south of beaver dams. Absent from collections.
- 7(462). *Salix discolor* Muhl.
Abundant, source of spring-fed creek, south-west of University Biology Area.
- 8(463). *Salix exigua* Nutt.
Infrequent, sand bars of river.
- 9(464). *Salix humilis* Marsh.
Source of spring-fed creek, south-west of University Biology Area. Absent from collections.
- 10(465). *Salix interior* Rowlee
Source of spring-fed creek, south-west of University Biology Area. Absent from collections.
- 11(466). *Salix lutea* Nutt.
Rare.

LXVI. Santalaceae

- 1(467). *Comandra umbellata* (L.) Nutt.
Prairie, north boundary, near woods. Absent from collections.

LXVII. Sapindaceae

- 1(468). *Acer negundo* L.
Abundant, woods.

LXVIII. Saxifragaceae

- 1(469). *Heuchera richardsonii* R. Br.
Infrequent, prairie.
- 2(470). *Ribes americanum* Mill.
Abundant, woods.

- 3(471). *Ribes hirtellum* Michx.
Infrequent, along river banks.

- 4(472). *Ribes missouriense* Nutt.
Abundant, woods.

LXIX. Scrophulariaceae

- 1(473). *Limosella aquatica* L.
Rare, wet sandbar of river on North boundary.
- 2(474). *Scrophularia lanceolata* Pursh
Flood-plain woods, especially near river. Absent from collections.

LXX. Smilacaceae

- 1(475). *Smilax herbacea* L.
Infrequent, moist woods and river banks.

LXXI. Solanaceae

- 1(476). *Physalis lanceolata* Michx.
Infrequent, prairie.
- 2(477). *Physalis virginiana* Mill.
Infrequent, prairie.
- 3(478). *Solanum dulcamara* L.
Rare, swamps.
- 4(479). *Solanum nigrum* L.
Infrequent to rare, sand bars along river.

LXXII. Typhaceae

- 1(480). *Sparganium eurycarpum* Engelm.
Beaver-swamp, seepage areas from creeks, wet river banks. Absent from collections.
- 2(481). *Typha angustifolia* L.
Rare, banks of river.
- 3(482). *Typha latifolia* L.
In beaver-swamp, occasional in seepage areas from springfed creek. Absent from collections.

LXXIII. Ulmaceae

- 1(483). *Ulmus americana* L.
Abundant, north-facing slopes and flood-plains of river; infrequent elsewhere.

LXXIV. Urticaceae

- 1(484). *Laportea canadensis* (L.) Weddell
Very abundant, flood-plains of river.
- 2(485). *Parietaria pensylvanica* Muhl. ex Willd.
Very abundant, open areas under trees, north-facing slopes and ravines south of river.
- 3(486). *Urtica dioica* L.
Abundant, low area on north boundary prairie, flood plains of river, along creeks.

LXXV. Verbenaceae

- 1(487). *Verbena bracteata* Cav. ex Lag. & Rodr.
Infrequent, edge of bromegrass field.
- 2(488). *Verbena hastata* L.
Abundant locally, flood plain of river among shrubs.
- 3(489). *Verbena stricta* Vent.
Rare.

- 4(490). *Verbena urticifolia* L.
Abundant locally, flood plain of river among shrubs.

LXXVI. Violaceae

- 1(491). *Viola canadensis* L.
Very abundant, woods especially in oak zone.
- 2(492). *Viola nuttallii* Pursh
Infrequent.
- 3(493). *Viola pedatifida* G. Don
Infrequent, especially prairie extensions between woodlands.

- 4(494). *Viola pubescens* Aiton
Infrequent, woods, flood-plains
- 5(495). *Viola sororia* Willd.
Infrequent, woods.

LXXVII. Vitaceae

- 1(496). *Parthenocissus quinquefolia* (L.) Planch.
Very abundant, woods.
- 2(497). *Parthenocissus vitacea* (Knerr) Hitchc.
Infrequent, woods.
- 3(498). *Vitis vulpina* L.
Infrequent, woods especially flood-plains.