

# BLUFF SPRING FEN NATURE PRESERVE: CHECKLIST OF VASCULAR PLANT TAXA

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## ABSTRACT

A checklist of the vascular plant taxa observed at Bluff Spring Fen Nature Preserve, Cook County, Illinois is reported. It includes 69 families, 229 genera, and 396 infraspecific taxa.

This paper documents the plant taxa reported from Bluff Spring Fen Nature Preserve, an area of 36 hectares (90 acres) located in Hanover Township, Cook County, Illinois, just southeast of Elgin (T41N, R9W, N½, Sec. 30). Included in the area are two kames and an extensive disturbed oak woodland. The plant communities (graminoid fen, shrub fen, calcareous seep, wet-mesic prairie, sedge meadow, *Typha-Carex* community, dry gravel prairie, and shrub community), vegetation history, and management of the preserve were recently described (Stoyanoff and Hess, 1986).

Voucher specimens to document the plant taxa present in the entire nature preserve were collected during the last several years and deposited in the herbarium of The Morton Arboretum (MOR). The flora includes 69 families, 229 genera, and 396 species, subspecies, and varieties. The largest families are the Asteraceae with 56 species, the Poaceae with 43 species, and the Cyperaceae with 36 species. *Carex*, *Aster*, and *Solidago* are the largest genera with 21, eight, and eight species, respectively. We continue to collect sight records as they are relocated.

It has been brought to our attention by an anonymous reviewer that an additional ten acres of sedge meadow and oak woodland are now included within the nature preserve. The addition is reported to have perhaps a dozen or more taxa

such as *Camassia scilloides*, *Carex sprengelli*, *Erigeron pulchellus*, and *Panicum latifolium* [*Dichanthelium latifolium*]. We have not included these taxa in this list, because we have neither examined this area, nor vouchers for the plants.

Nine taxa in this checklist are recorded as endangered or threatened for Illinois (Natural Land Institute, 1981). The endangered species are *Carex crawei*, *Triglochin palustre*, *Cypripedium candidum*, *Asclepias lanuginosa*, and *Utricularia intermedia*. (We are informed (anonymous reviewer) that after a prescribed burning, the endangered *Pogonia ophioglossoides* was found. It was not vouchered and hence not included in this list, but is mentioned because it is an important find.) The four threatened species are *Galopogon tuberosus*, *Cladium mariscoides*, *Eleocharis rostellata*, and *Tofieldia glutinosa*. Endangered and threatened taxa are preceded by an asterisk (\*). Adventive taxa to the Bluff Springs Fen Nature Preserve are preceded by an exclamation point (!). Nomenclature primarily follows Kartesz and Kartesz (1980). Exceptions are based upon U. S. Department of Agriculture (1982), and Swink and Wilhelm (1979). The synonyms are included within brackets ([ ]).

## ACKNOWLEDGMENTS

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## PTERIDOPHYTA

### Equisetaceae

*Equisetum arvense* L.

*E. fluviale* L.

*E. hyemale* L. var. *affine* (Engelm.) A. A. Eat.

*E. laevigatum* A. Braun

*E. x nelsonii* (A. A. Eat.) Schaffn.

## MACNOLIOPHYTA

### LILIOPSIDA

#### Alismataceae

*Alisma plantago-aquatica* L.

*Sagittaria latifolia* Willd.

#### Amaryllidaceae

*Hypoxis hirsuta* (L.) Coville

#### Araceae

*Arisaema triphyllum* (L.) Schott

*Symplocarpus foetidus* (L.) Nutt.

#### Commelinaceae

*Tradescantia ohioensis* Raf.

#### Cyperaceae

*Carex hebbii* (Bailey) Fern.

*C. cephalophora* Willd.

*C. comosa* Boott

*C. convoluta* Mackenz.

\**C. crawei* Dew.

*C. granularis* Muhl. ex Willd.

*C. haydenii* Dew.

*C. hysterichna* Muhl. ex Willd.

*C. lanuginosa* Michx.

*C. leptuca* Wahlenb.

*C. molesta* Mackenz.

*C. pennsylvanica* Lam.

*C. prairea* Dew.

*C. sterilis* Willd.

*C. stipata* Muhl. ex Willd.

*C. stricta* Lam. var. *strictior* (Dewey) J. Carey

*C. tenera* Dew.

*C. tetanica* Schkuhr

*C. trichocarpa* Schkuhr

*C. umbellata* Schkuhr ex Willd.

*C. vulpinoidea* Michx.

\**Cladium mariscoides* (Muhl.) Torr.

*Cyperus filiculmis* Vahl

*C. rivularis* Kunth

- Eleocharis elliptica* Kunth  
*E. erythropoda* Steudel  
*E. intermedia* Schultes  
 \**E. rostellata* (Torr.) Torr.  
*E. smallii* Britt.  
*E. tenuis* (Willd.) Schultes  
*Eriophorum angustifolium* Honck.  
*Rhynchospora capillacea* Torr.  
*Scirpus acutus* Muhl. ex Bigelow  
*S. atrovirens* Willd.  
*S. validus* Vahl var. *creber* Fern.  
 [S. *tabernaemontani* K. C. Cmel.]  
*Scleria verticillata* Muhl. ex Willd.
- Iridaceae**  
*Iris virginica* L. var. *shrevei* (Small) E. Anders.  
*Sisyrinchium albidum* Raf.
- Juncaceae**  
*Juncus brachycephalus* (Engelm.) Buch.  
*J. dudleyi* Wieg. [J. *tenuis* Willd. var. *uniflorus* (Farw.) Farw.]  
*J. effusus* L. var. *solutus* Fern. & Wieg.  
*J. nodosus* L.  
*J. tenuis* Willd.  
*J. torreyi* Coville
- Juncaginaceae**  
 \**Triglochin palustre* L.
- Lemnaceae**  
*Lemna minor* L.
- Liliaceae**  
*Allium canadense* L.  
*A. cernuum* Roth  
 !*Asparagus officinalis* L.  
 !*Convallaria majalis* L.  
 !*Hemerocallis fulva* (L.) L.  
*Lilium michiganense* Farw.  
*Polygonatum biflorum* (Walt.) Ell.  
*Smilacina racemosa* (L.) Desf.  
*S. stellata* (L.) Desf.  
*Smilax lasiocarpa* Hook.  
 \**Tofieldia glutinosa* (Michx.) Pers.  
*Trillium recurvatum* Beck
- Orchidaceae**  
 \**Calopogon tuberosus* (L.) B.S.P.  
 \**Cypripedium candidum* Muhl. ex Willd.  
*Liparis loeselii* (L.) Richard  
*Platanthera hyperborea* (L.) Lindl. var. *huronensis* (Nutt.) Luer  
*Spiranthes cernua* (L.) L. C. Rich.
- Poaceae**  
 !*Agropyron repens* (L.) Beauv.
- A. trachycaulum* (Link) Malte ex H. F. Lewis  
 !*Agrostis gigantea* Roth [A. *stolonifera* L.]  
*A. stolonifera* L. var. *palustris* (Huds.) Farw.  
*Andropogon gerardii* Vitman  
*Bouteloua curtipendula* (Michx.) Torr.  
*Bromus ciliatus* L.  
 !*B. inermis* Leyss.  
 !*B. japonicus* Thunb. ex Murr.  
*Calamagrostis canadensis* (Michx.) Beauv.  
 !*Dactylis glomerata* L.  
*Deschampsia cespitosa* (L.) Beauv.  
*Dichanthelium acuminatum* (Sw.) Gould & Clark var. *implicatum* (Scribn.) Gould & Clark  
*D. oligoanthes* (Schultes) Gould var. *scribnerianum* (Nash) Gould  
 !*Digitaria ischaemum* (Schreb. ex Schweig.) Schreb. ex Muhl.  
*Echinochloa crusgalli* (L.) Beauv.  
*Elymus canadensis* L.  
*E. villosus* Muhl. ex Willd.  
*E. virginicus* L.  
*Eragrostis spectabilis* (Pursh) Steud.  
 !*Festuca elatior* L.  
*Glyceria striata* (Lam.) A. S. Hitchc.  
*Hierochloa odorata* (L.) Beauv.  
*Hystrix patula* Moench  
*Leersia oryzoides* (L.) Sw.  
*Muhlenbergia glomerata* (Willd.) Trin.  
*M. mexicana* (L.) Trin.  
*Panicum capillare* L.  
*P. flexile* (Gattinger) Scribn.  
*P. virgatum* L.  
*Phalaris arundinacea* L.  
 !*Phleum pratense* L.  
*Phragmites australis* (Cav.) Trin. ex Steudel  
 !*Poa compressa* L.  
 !*P. pratensis* L.  
*Schizachyrium scoparium* (Michx.) Nash  
 !*Setaria faberi* Herrm.  
 !*S. glauca* (L.) Beauv.  
 !*S. viridis* (L.) Beauv.  
*Sorghastrum nutans* (L.) Nash  
*Spartina pectinata* Link  
*Sphenopholis obtusata* (Michx.) Scribn. var. *major* (Torr.) K. S. Erdman  
*Sporobolus heterolepis* (Gray) Gray
- Sparganiaceae**  
*Sparganium eurycarpum* Engelm.
- Typhaceae**  
*Typha angustifolia* L.  
*T. latifolia* L.

## MAGNOLIOPSIDA

- Accraceae**  
*Acer negundo* L. var. *violaceum* J. Miller  
 !*A. platanoides* L.
- Anacardiaceae**  
*Rhus glabra* L.
- R. typhina* L.  
*Toxicodendron radicans* (L.) Kuntze
- Apiaceae**  
*Angelica atropurpurea* L.  
*Berula erecta* (Huds.) Coville

- Cicuta bulbifera* L.  
 !*Daucus carota* L.  
*Oxypholis rigidior* (L.) Raf.  
*Sanicula canadensis* L.
- Apocynaceae
- Apocynum cannabinum* L. var.  
*hypericifolium* Gray
- Aristolochiaceae
- Asarum canadense* L.
- Asclepiadaceae
- Asclepias incarnata* L.  
 \**A. lanuginosa* Nutt. [*A. otarioides* Fourn.]  
*A. syriaca* L.  
*A. tuberosa* L.  
*A. verticillata* L.
- Asteraceae
- !*Achillea millefolium* L.  
*Ambrosia artemisiifolia* L. var. *elatior* (L.)  
 Desc.  
*A. trifida* L.  
 !*Arctium minus* Bernh.  
*Artemisia caudata* Michx. [*A. campestris* L.  
 ssp. *caudata* (Michx.) Hall & Clements]  
*Aster azureus* Lindl.  
*A. firmus* Nees  
*A. lateriflorus* (L.) Britt.  
*A. notae-angliae* L.  
*A. pilosus* Willd.  
*A. puniceus* L.  
*A. sagittifolius* Wed. ex Willd. [*Aster*  
*x sagittifolius* Wed. ex Willd.]  
*A. umbellatus* P. Mill.  
*Bidens cernua* L.  
*B. comosa* (Cray) Wieg.  
*B. vulgata* Greene  
*Brickellia eupatorioides* (L.) Shinn. var.  
*corymbulosa* (T. & C.) Shinn.
- !*Cichorium intybus* L.  
*Cirsium altissimum* (L.) Spreng.  
 !*C. arvense* (L.) Scop.  
*C. muticum* Michx.  
 !*C. vulgare* (Savi) Tenore  
*Erigeron annuus* (L.) Pers.  
*E. philadelphicus* L.  
*E. strigosus* Muhl. ex Willd.  
*Eupatorium altissimum* L.  
*E. maculatum* L.  
*E. perfoliatum* L.  
*E. rugosum* Houtt.  
*Helenium autumnale* L.  
*Helianthus giganteus* L.  
*H. grosseserratus* Martens  
 !*Leucanthemum vulgare* Lam.  
*Liatris pycnostachya* Michx.  
*Prenanthes racemosa* Michx.  
*Ratibida pinnata* (Vent.) Barnh.  
*Rudbeckia hirta* L.  
*R. laciniata* L.  
*R. triloba* L.  
*Senecio aureus* L.  
*S. pauperculus* Michx.
- Silphium integrifolium* Michx.  
*S. perfoliatum* L.  
*S. terebinthinaceum* Jacq.  
*Solidago altissima* L. [*S. canadensis* L. var.  
*scabra* (Muhl.) T. & G.]  
*S. gigantea* Ait.  
*S. nemoralis* Ait.  
*S. ohioensis* Riddell  
*S. patula* Muhl.  
*S. riddellii* Frank  
*S. rigida* L.  
*S. uliginosa* Nutt.  
 !*Sonchus arvensis* L. ssp. *uliginosus*  
 (Bieb.) Nyman  
 !*Taraxacum officinale* Weber  
 !*Tragopogon major* Jacq. [*T. dubius* Scop. ssp.  
*major* (Jacq.) Voll.]  
*Vernonia fasciculata* Michx.
- Balsaminaceae
- Impatiens capensis* Meerb.
- Betulaceae
- Corylus americana* Walt.
- Bignoniaceae
- !*Catalpa speciosa* (Warder ex Barney) Engelm.
- Boraginaceae
- !*Cynoglossum officinale* L.  
*Hackelia virginiana* (L.) I. M. Johnst.  
 !*Lappula echinata* Gilib.  
*Lithospermum canescens* (Michx.) Lehm.  
*L. incisum* Lehm.  
 !*Myosotis scorpioides* L.
- Brassicaceae
- Arabis laevigata* (Muhl.) Poir.  
 !*Barbarea vulgaris* R. Br.  
*Cardamine bulbosa* (Schreb.) B.S.P.  
 !*Erysimum inconspicuum* (S. Wats.) MacM.  
 !*Lepidium densiflorum* Schrad.  
 !*lobularia maritima* (L.) Desv.  
 !*Nasturtium officinale* R. Br.
- Campanulaceae
- Campanula americana* L.  
*C. aparinoides* Pursh  
*Lobelia kalmii* L.  
*L. siphilitica* L.  
*L. spicata* Lam.
- Caprifoliaceae
- !*Lonicera x minutiflora* Zabel  
 !*L. x muendensis* Rehder  
*L. prolifera* (Kirchn.) Rehder  
 !*L. tatarica* L.  
*Sambucus canadensis* L.  
*Triosteum perfoliatum* L.  
*Viburnum lentago* L.  
 !*V. opulus* L.  
*V. rafinesquianum* Schultes
- Caryophyllaceae
- Arenaria stricta* Michx. [*Minuartia michauxii*  
 (Fern.) Farw.]  
 !*Dianthus armeria* L.

- !Saponaria officinalis L.  
!Silene eserei Baumg.  
S. stellata (L.) Ait. f.
- Chenopodiaceae  
!Atriplex patula L.
- Clusiaceae  
!Hypericum perforatum L.  
H. pyramidatum Ait.
- Convolvulaceae  
Calystegia sepium (L.) R. Br.  
Cuscuta cephalanthii Engelm.  
C. glomerata Choisy
- Cornaceae  
Cornus amomum Mill. ssp. obliqua (Raf.)  
Wilson  
C. foemina Mill. ssp. racemosa (Lam.) Wilson  
C. stolonifera Michx. [C. sericea L.  
ssp. sericea]
- Euphorbiaceae  
Euphorbia corollata L.  
!E. maculata L.
- Fabaceae  
Amorpha canescens Pursh  
Amphicarpaea bracteata (L.) Fern.  
Apios americana Medic.  
Astragalus canadensis L.  
Dalea purpurea Vent.  
Desmodium canadense (L.) DC.  
!Gleditsia triacanthos L.  
Lathyrus palustris L.  
!Medicago lupulina L.  
!Melilotus alba Medic.  
!M. officinalis (L.) Pallas  
!Trifolium hybridum L.  
!T. pratense L.  
!T. repens L.
- Fagaceae  
Quercus alba L.  
Q. ellipsoidalis E. J. Hill  
Q. macrocarpa Michx.  
Q. rubra L.  
Q. velutina Lam.
- Gentianaceae  
Gentiana andrewsii Griseb.  
Gentianopsis procera (Th. Holm) Ma
- Geraniaceae  
Geranium maculatum L.
- Hippocastanaceae  
Aesculus glabra Willd.
- Lamiaceae  
Agastache scrophulariifolia (Willd.) Kuntze  
!Glechoma hederacea L.  
Hedeoma hispidum Pursh  
!Leonurus cardiaca L.  
Lycopus americanus Muhl. ex Bart.  
L. uniflorus Michx.
- L. virginicus L.  
Mentha arvensis L. var. villosa (Benth.)  
S. R. Stewart  
Monarda fistulosa L.  
!Nepeta cataria L.  
Prunella vulgaris L. var. lanceolata (Bart.)  
Fern.  
Pycnanthemum virginianum (L.)  
Durand & Jackson  
Scutellaria galericulata L.  
S. lateriflora L.  
S. leonardii Epl.  
Stachys palustris L. var. homotricha Fern.  
S. tenuifolia Willd. var. hispida (Pursh) Fern.  
Teucrium canadense L.
- Lentibulariaceae  
\*Utricularia intermedia Hayne  
U. vulgaris L.
- Linaceae  
Linum sulcatum Riddell
- Lythraceae  
!Lythrum salicaria L.
- Moraceae  
!Morus alba L.
- Oleaceae  
Fraxinus pennsylvanica Marsh. var.  
pennsylvanica  
F. pennsylvanica Marsh. var. subintegerrima  
(Vahl) Fern.
- Onagraceae  
Circaea lutetiana L. ssp. canadensis (L.)  
Asch. & Magnus  
Epilobium coloratum Biehler  
!E. hirsutum L.  
Gaura biennis L.  
Oenothera biennis L.
- Oxalidaceae  
Oxalis europaea Jord.  
O. stricta L.  
O. violacea L.
- Papaveraceae  
Sanguinaria canadensis L.
- Plantaginaceae  
!Plantago lanceolata L.  
P. rugelii Dene.
- Polemoniaceae  
Polemonium reptans L.
- Polygonaceae  
!Polygonum achoreum Blake  
!P. convolvulus L.  
P. pennsylvanicum (L.) Small  
!P. persicaria L.  
P. punctatum Ell.  
P. scandens L.  
!Rheum rhaponticum L.  
!Rumex crispus L.  
R. orbiculatus Gray

## Primulaceae

- Dodecatheon meadia* L.  
*Lysimachia ciliata* L.  
*L. quadriflora* Sims

## Ranunculaceae

- Actaea rubra* (Ait.) Willd.  
*Anemone canadensis* L.  
*A. cylindrica* Gray  
*A. quinquefolia* L. var. *interior* Fern.  
*A. virginiana* L.  
*Aquilegia canadensis* L.  
! *A. vulgaris* L.  
*Caltha palustris* L.  
*Clematis virginiana* L.  
*Ranunculus abortivus* L.  
*R. fascicularis* Muhl. ex Bigelow  
*R. pensylvanicus* L. f.  
*Thalictrum dasycarpum* Fisch. & Lall. var.  
*dasycarpum*  
*T. dasycarpum* Fisch. & Lall. var.  
*hypoglaucom* (Rydb.) Boiv.

## Rhamnaceae

- ! *Rhamnus cathartica* L.  
! *R. frangula* L.

## Rosaceae

- Agrimonia gryposepala* Wallr.  
*A. pubescens* Wallr.  
*Amelanchier sanguinea* (Pursh) DC.  
*Crataegus crus-galli* L.  
*C. mollis* (T. & G.) Scheele  
*Fragaria virginiana* Duchesne  
*Geum canadense* Jacq.  
*G. laciniatum* Murr. var. *trichocarpum* Fern.  
*G. triflorum* Pursh  
*Potentilla arguta* Pursh  
*P. fruticosa* L.  
*P. norvegica* L.  
! *P. recta* L.  
*P. simplex* Michx.  
*Prunus serotina* Ehrh.  
*P. virginiana* L.  
*Rosa arkansana* Porter var. *suffulta* (Greene)  
Cockerell  
*R. blanda* Ait.  
*R. carolina* L.  
*Rubus occidentalis* L.  
*R. pensylvanicus* Poir.

## Rubiaceae

- Galium aparine* L.  
*G. asprellum* Michx.  
*G. boreale* L.  
*G. trifidum* L.

## Salicaceae

- ! *Populus alba* L.  
*P. deltoides* Bartr. ex Marsh.  
*P. tremuloides* Michx.  
*Salix amygdaloides* Anderss.

- S. bebbiana* Sarg.  
*S. discolor* Muhl.  
*S. exigua* Nutt.  
! *S. fragilis* L.  
*S. myricoides* Muhl.  
*S. rigida* Muhl.

## Santalaceae

- Comandra richardsiana* Fern.

## Saxifragaceae

- Heuchera richardsonii* R. Br.  
*Parnassia glauca* Raf.  
*Penthorum sedoides* L.  
*Ribes americanum* P. Mill.  
*R. missouriense* Nutt. ex T. & G.  
*Saxifraga pensylvanica* L.

## Scrophulariaceae

- ! *Agalinis skinneriana* (Wood) Britt.  
*Aureolaria grandiflora* (Benth.) Pennell var.  
*pulchra* Pennell  
*Chelone glabra* L.  
! *Linaria vulgaris* P. Mill.  
*Pedicularis lanceolata* Michx.  
! *Verbascum thapsus* L.  
*Veronicastrum virginicum* (L.) Farw.

## Solanaceae

- ! *Datura innoxia* Mill.  
*Physalis virginiana* Mill.  
! *Solanum americanum* Mill.  
! *S. dulcamara* L.

## Tiliaceae

- Tilia americana* L.

## Ulmaceae

- Ulmus americana* L.  
*U. rubra* Muhl.

## Urticaceae

- Laportea canadensis* (L.) Weddell  
*Pilea fontana* (Lunell) Rydb.  
*Urtica dioica* L. ssp. *gracilis* (Ait.) Seland. var.  
*procera* (Muhl.) Weddell

## Valerianaceae

- Valeriana edulis* Nutt. ex T. & G. ssp. *ciliata*  
(T. & G.) F. G. Mey.

## Verbenaceae

- Phryma leptostachya* L.  
*Verbena simplex* Lehm.  
*V. stricta* Vent.  
*V. urticifolia* L.

## Violaceae

- Viola affinis* Le Conte  
*V. septentrionalis* Greene

## Vitaceae

- Parthenocissus quinquefolia* (L.) Planch.  
*Vitis riparia* Michx.

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