McHENRY COUNTY FLORISTIC SURVEYS

2004

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Biologic Inventories for Natural Areas
in McHenry County, Illinois

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# McHENRY COUNTY FLORISTIC SURVEYS
# 2004

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INTRODUCTION

In an effort to identify outstanding significant natural areas in McHenry County that meet the requirements of the Illinois Natural Area Inventory (INAI) standards, and to identify appropriate means of protection, botanical surveys were conducted on eight (8) privately owned natural areas throughout the county. The project was supported through the Wildlife Preservation Fund small grants program. The job coordinator was Brad Semel, who is the IDNR district heritage biologist for McHenry County. Steve Byers, of the Nature Preserves Commission, participated in some of the field work as well.

METHODS

Floristic Inventories

Each site was visited at least one time during the growing season of 2004 for the purpose of inventoring the vascular plants. Notable occurrences of wildlife were recorded as well. In most cases, as much of the site as possible was covered; in the case of the Tauck and Johnson properties, emphasis was given to selected wetland areas. The site names and survey dates were as follows:

- MiKell Fen June 1, July 27
- Boloria Meadows June 1, July 27, August 6
- North Boloria June 1
- Miles Property June 1
- Tauck Property July 26, August 19
- Clemetsen Property September 17
- Johnson Pond September 17
- Blair Seeps and Prairie September 17 and 28, October 12

Element occurrence records are being filed with the IDNR for the state-listed species encountered.

Transect Descriptions

At Boloria Meadows, a transect was established in the fen area on July 27. Thirty square sample plots (quadrats), 0.25 m² in size, were laid out along a straight-line transect at 1-meter intervals, and sampling occurred on either side of the transect randomly. Since the area was not long, quadrats 1–24 were laid out in a westerly direction, and quadrats 25–30 headed back in an easterly direction on a parallel track about 2 meters north of the main part of the transect. Brad Semel took GPS readings of the transect location.

At the Blair site, a transect was laid out in one of the prairie areas on October 12. Permanent stakes were placed at the beginning and end of the straight-line transect, and GPS readings were taken at the stakes. The sampling interval was 2 meters, and the number of square 0.25 m² quadrats sampled was 20.

Data Analysis

Both the transect and inventory lists were analyzed with the Floristic Quality Assessment system. For the transect sampling, this requires that within each square quadrat (0.25 m²), vascular plants are identified to species and assigned a Braun-Blanquet cover/abundance coefficient, with values ranging from 1 to 5. Generally, the cover coefficients are applied according to the following criteria:

1 = species in only 1 quarter of the quadrat and having 1 to few stems
2 = species occupying 1 to 2 quarters and numbering several stems
3 = species occupying 2 to 3 quarters with cover and density notable in each
4 = species occupying 3 to 4 quarters with a regular density throughout
5 = species dominating the entire quadrat
These measurements are used to determine relative importance values both for physiognomic groups represented in a transect and for individual species’ occurrence throughout a transect. A relative importance value (RIV) for a species, or designated group of species, is calculated by adding a value for relative frequency (RFRQ) and a value for relative cover (RCOV) and dividing the sum by 2.

Overall floristic quality for a transect or an inventory is determined through an analysis of the conservatism of the species appearing in the sampling area. Conservatism is defined by how restricted a species is to high-quality remnant habitats—those natural areas with nearly intact or significant ecological structure, composition, and function.

Each native species in our flora has been assigned a coefficient of conservatism (C) from 0 to 10 (least to most conservative). The floristic quality index (FQI) for a site is calculated by multiplying the mean C (C̄) by the square root of the total number of native species recorded there. As natural phenomena and human impacts (including management) cause change to occur, the C and FQI measured over time will reflect the extent to which conservative species are being recruited or lost, and whether the floristic quality is improving or declining.

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An analysis of species with regard to their wetness affinity is also important in the evaluation of a plant community. Each vascular plant species in our flora has a designated indicator category that defines the estimated probability of its occurring in a wetland. Plants are designated as obligate wetland (OBL or -5), facultative wetland (FACW or -3), facultative (FAC or 0), facultative upland (FACU or 3), or obligate upland (UPL or 5). For about 20% of our flora, "+" or "−" signs have been attached to the three facultative categories to express the exaggerated tendencies of those species. The "+" sign means that the species has a greater probability of occurring in wetlands; the "−" sign means that it has a lesser estimated probability of occurring in wetlands. The extent to which an area is dominated by wetland plants is derived by calculating the mean wetness coefficient (W) of all the native species in a transect or other sampling area.
RESULTS AND DISCUSSION

MiKell Fen

This small hillside seep yielded 43 native species with a very high mean C value of 4.8. The main survey occurred on June 1, when the sedges were in their full late-spring glory. Fine-textured but vigorous clumps of Carex leptalea (slender sedge) and Carex interior (prairie star sedge) were spread across the hilltop seep, along with a number of other sedges, including Carex sterilis (fen star sedge), Carex stricta (common tussock sedge), Carex pellita (broad-leaved woolly sedge), and Carex hystericina (porcupine sedge). In amongst these sedges were clumps of the small, state-endangered Viola incognita (hairy white violet). Generously scattered across the hillside was Solidago patula (swamp goldenrod), which is another indicator of a high-quality remnant natural area.

The site looked wonderful in its first year after clearing. The bottom of the hill will need some time to develop from its brush-infested state; indeed, it would be an interesting area to track over time with a transect study. Some additional clearing is planned for the top of the hill over the winter, as it was apparent that there were additional sedges and other natives there that were struggling to survive the shade of woody growth. It was a most fortuitous circumstance that this little site was identified and that it is being managed to maintain its native quality.

The inventory list for this site, and for each of the other sites, is provided in Appendix I.

Boloria Meadows

Several visits to this site yielded a plant inventory of 120 native species, with a very high mean C value of 4.9. The central area is a rich sedge meadow with fen species at one end; it is surrounded by remnant native woodland. One of the most striking aspects, even in pre-bloom state, was the thick colony of Parnassia glauca (grass of Parnassus), whose habitat is restricted to calcareous springy sites. It was growing with other highly conservative natives such as Solidago ohioensis, (Ohio goldenrod), Cirsium muticum (swamp thistle), and Pedicularis lanceolata (fen betony). The July visit revealed generous numbers of the native orchid Liparis loeselii (green twayblade) scattered throughout this locale. Also growing here is Rhus vernix (poison sumac), a shrub that is seldom encountered because of its specialized habitat requirements.

Some of the areas peripheral to the sedge meadow have invasive species, such as Phalaris arundinacea (reed canary grass). These are being actively controlled with aggressive management. The main central portion, however, is quite free of problem non-native species. The sedge clumps have a rich array of native forbs growing amongst them. A particularly interesting, uncommon sedge species found in the wet meadow was Carex vesicaria var. monile (tufted lake sedge). In the spring, the standing water was full of the floating liverworts Ricciocarpus natans (purple fringed riccia) and Riccia fluitans (slender riccia), both indicators of a high-quality wetland. The caterpillar stage of the rare Baltimore Checkerspot butterfly was seen twice on the June visit on one of its host plants, Chelone glabra (turtlehead).

The fen transect yielded very high values. The average number of native species per quadrat was 12.7, and the average C value per quadrat was 5.6. Complete transect data are given in Appendix II.

North Boloria

To the north of Boloria Meadows and contiguous with it is a separate management unit called North Boloria. Though its remnant native quality is not as high as the other sites visited, it may improve with continued management; it also has value as buffer land to the higher-quality area. A particularly notable occurrence here was Carex trichocarpa (hairy-fruited lake sedge), which was abundant and widespread at the site. The number of native species recorded on this visit was 52, with a mean C value of 3.3.
Miles Property

The site visit here on June 1 yielded 68 native species with a mean C value of 4.0. Some evidence of the recent brush clearing was still apparent, and it was clear that this recovering land would present a more striking picture later this season and in subsequent years. Conservative native species were found in the open prairie areas and in the wetter streamside habitat. There is also remnant woodland on this tract. Clearly, this site has great potential, and tracking the redevelopment of its native character would be a fascinating study.

Tauck Property

One of the most interesting plant communities on this 60-acre property is a buttonbush wetland called Skunk Pond. In the center of the wetland, which is ringed by Cephalanthes occidentalis (buttonbush), is a lovely stand of Glyceria septentrionalis (floating manna grass). There is also Utricularia vulgaris (common bladderwort) in the pond. On the partly sunny slope leading down to the pond, a small population of the state-endangered Veronica americana (American brooklime) was seen in bloom on July 26. The site list for this year’s visits yielded 128 native species with a mean C of 4.2.

In a brushy woodland area, two native orchids were discovered. A large basal rosette of Goodyera pubescens (rattlesnake plantain) was growing close to several Liparis liliifolium (purple twayblade) plants. Some of the twyblades had flowered, but in July had naked stalks. Whether fruits had matured or not is unknown. Elsewhere on the property, open areas are inhabited by Carex; a walkthrough earlier in the season would be necessary for positive identification of some of them.

As with a number of the areas in this study, some plant records had been carefully kept, but even these short visits in 2004 expanded the number of species considerably. It was wholly fortuitous that the main visit on July 26 coincided with the blooming of the endangered Veronica, and is but one example of what even minimal additional botanizing can yield. More thorough efforts would undoubtedly expand greatly our knowledge of these remnant landscapes and what they are bringing forth, now that management is occurring in a number of them.

Clemetsen Property

This large and diverse tract has been actively managed for a number of years, and the results in many areas have been most gratifying. Several high-quality sedge meadows and wetlands in particular have made an impressive recovery. There is also oak-hickory woodland, part of which has been cleared of dense Rhamnus cathartica (common buckthorn). As is often the case with our remnant woods, recovery there has not resulted in the level of diversity noted elsewhere. Besides the buckthorn-infested woods, which have been a problem for some time, there are some other areas on the property that are becoming weedy with Solidago altissima (tall goldenrod), perhaps because of hydrologic changes. A number of other areas, however, support rich matrices of native species with minimal invasion from non-natives. The walkthrough on September 17 yielded 150 native species with an impressive mean C of 4.5. Of the total 178 species recorded that day, 64 were new additions to previously compiled site lists. A visit during late May or early June, when most of the sedges would be identifiable, would prove most interesting.

There have been some plant introductions, and careful records have been kept of these. This property is under very capable and conscientious care, and permanent protection would ensure that this area will continue to be a community asset in the years to come.

Adjacent to this property, to the east, is a prairie reconstruction that is thriving. Unlike most young reconstructions that are dominated by tall grasses, goldenrods, and other composites, this prairie has a very rich forb matrix with some grasses mixed in, not gigantic in stature. It is hard to believe that this land was under cultivation several years ago. It is an example of the rapid response to management and reseeding of
land that has been witnessed at a number of the sites in this study. It is as if the land is welcoming the native elements back again. This felicitous situation argues for aggressive acquisition, protection, and management of other remnant and recoverable sites like this. A transect here, and in some of the wet prairies or cleared woods on the Clemetsens’ land would be instructive studies in land and native plant recovery.

Johnson Pond

Just a few short years ago, the small pond that extends north from the Johnsons’ driveway corridor was choked with *Phalaris arundinacea* (reed canary grass). With the support of the co-owner of the pond area, George Johnson herbicided the *Phalaris* with Roundup in the fall of 2002, and amazing things have happened. The pond has burgeoned with a variety of native plants, some of them highly conservative, and the need for follow-up herbiciding has been minimal. A floristic inventory on September 17 yielded 39 native species with a mean C value of 4.4 (included are 3 species gathered and dried earlier in the year). Additional dried specimens suggest that at least several very more conservative plants are thriving here; these will need to be confirmed next growing season. Besides the vascular plants present, two floating liverworts were seen, both indicators of a high-quality wetland: *Ricciocarpus natans* (purple-fringed riccia) and *Riccia fluitans* (slender riccia).

On September 28, it was noted that some growth of *Typha* (cattail) may be headed toward the pond from the driveway verge. This will need to be watched carefully, along with the aggressive *Scirpus fluviatilis* (river bulrush), which already has a notable presence in the pond.

Blair Seeps and Prairie

This site provided a fitting grand finale for the McHenry County sites visited for this project. this fine prairie remnant contains four small seeps that are in near pristine condition. These rare, specialized habitats support the classic association of *Lobelia kalmii* (Kalm’s lobelia) and *Parnassia glauca* (grass of Parnassus), along with *Panicum flexile* (wiry panic grass) and *Rhynchospora capillacea* (hair beak rush). Both of the fringed gentians were found there as well: *Gentiana crinita* (fringed gentian) and *Gentiana procera* (small fringed gentian). This cluster of seeps is an outstanding example of habitat that has very few stations extant in the county. In the fall, visits to the seeps and parts of the prairie yielded a list of 83 native species with a very high mean C of 5.0 (included is 1 species collected earlier in the year).

In the prairie transect, the average number of native species per quadrat was 9.2, with a mean C value of 4.9. Only 4 non-native species showed up in the transect, each with a negligible presence. The relative importance value of the native species was 98%. Complete transect data are presented in Appendix II.

Because of apparent hydrologic changes, which seem to have resulted in some dewatering and erosion, parts of this otherwise very high quality prairie have gotten weedy. *Ambrosia artemisiifolia var. elatior* (common ragweed) is one of the problem weeds; also, a patch of *Phalaris arundinacea* (reed canary grass) is growing perilously close to one of the seeps. This remnant deserves top priority for protection and management. A study of the hydrology and a remediation plan would be among the first tasks to be addressed.
SUMMARY

The floristic quality data for each site inventory are summarized in table 1, and the transect data from Boloria Meadows and the Blair Prairie are summarized in table 2.

Because these sites vary considerably in size and habitat diversity, care should be taken not to use table 1 indiscriminately as a comparison tool, particularly in regard to number of species found. The mean C value, on the other hand, does provide a very good indication of the current and potential native quality of the site. With continued botanizing, the mean C value is likely to remain quite constant, whereas an increased number of species recorded would cause the FQI to rise. All of these sites, with the exception of North Boloria, have remnant quality that is generally regarded to be irreplaceable by reconstruction or mitigation efforts.

The tremendous value of these sites lies not just in their biologic diversity and remnant quality (which is in some cases improving dramatically with management), but in the fact that they are being looked at as clusters of native landscapes and habitats. This has implications not only for their own survival and continued management, but for wildlife sustenance as well. McHenry County still has an opportunity to preserve its geomorphic and biologic natural heritage in landscape-scale units as well as in small, rich, specialized habitats. Any initiatives to promote the protection and management of these regional resources are worth whatever efforts governmental agencies, landowners, and concerned citizens can put forth.

TABLE 1. Site inventory floristic quality data

<table>
<thead>
<tr>
<th>Site</th>
<th>Total Species</th>
<th>Native Species</th>
<th>Mean C</th>
<th>FQI</th>
<th>Mean W</th>
<th>% Native Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>MiKell Fen</td>
<td>46</td>
<td>43</td>
<td>4.8</td>
<td>31</td>
<td>-2.7</td>
<td>94%</td>
</tr>
<tr>
<td>Boloria Meadows</td>
<td>136</td>
<td>120</td>
<td>4.9</td>
<td>53</td>
<td>-2.5</td>
<td>88%</td>
</tr>
<tr>
<td>North Boloria</td>
<td>76</td>
<td>52</td>
<td>3.3</td>
<td>24</td>
<td>-1.3</td>
<td>68%</td>
</tr>
<tr>
<td>Miles Property</td>
<td>82</td>
<td>68</td>
<td>4.0</td>
<td>33</td>
<td>-0.7</td>
<td>83%</td>
</tr>
<tr>
<td>Tauck Property</td>
<td>151</td>
<td>128</td>
<td>4.2</td>
<td>47</td>
<td>0.4</td>
<td>85%</td>
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<td>Clemensen Property</td>
<td>178</td>
<td>150</td>
<td>4.5</td>
<td>55</td>
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<td>84%</td>
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<td>Johnson Pond</td>
<td>42</td>
<td>39</td>
<td>4.4</td>
<td>28</td>
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<td>93%</td>
</tr>
<tr>
<td>Blair Seeps and Prairie</td>
<td>92</td>
<td>83</td>
<td>5.0</td>
<td>46</td>
<td>-1.2</td>
<td>90%</td>
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TABLE 2. Transect floristic quality data

<table>
<thead>
<tr>
<th>Site</th>
<th>Average Quadrat</th>
<th>Transect Inventory</th>
<th>% Native Species</th>
<th>% Native RIV</th>
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<tr>
<td></td>
<td>Native Species</td>
<td>Mean C</td>
<td>FQI</td>
<td>Mean W</td>
</tr>
<tr>
<td>Boloria Meadows</td>
<td>12.7</td>
<td>5.6</td>
<td>19.8</td>
<td>-3.8</td>
</tr>
<tr>
<td>Blair Prairie</td>
<td>9.2</td>
<td>4.9</td>
<td>14.7</td>
<td>-0.5</td>
</tr>
</tbody>
</table>
APPENDIX 1

INVENTORY DATA

**MiKell Fen**

SITE: MiKell Fen  
LOCALE: McHenry County, Illinois  
Lee and Mary MiKell  
west of Valley Hill Road, about 0.9 mile south of Bull Valley Road  
east of Woodstock, Illinois  
DATE: June 1 and July 27, 2004  
BY: Barbara Johnson, Brad Semel, Steve Byers  
FILE: MkFen04-inv

**FLORISTIC QUALITY DATA**

<table>
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<tr>
<th>NATIVE SPECIES</th>
<th>WETNESS</th>
<th>ADVENTIVE</th>
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<tr>
<td>Tree</td>
<td>2.2%</td>
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<tr>
<td>Shrub</td>
<td>2.2%</td>
<td>2.2%</td>
</tr>
<tr>
<td>W-Vine</td>
<td>2.2%</td>
<td>0.0%</td>
</tr>
<tr>
<td>H-Vine</td>
<td>2.2%</td>
<td>0.0%</td>
</tr>
<tr>
<td>P-Forb</td>
<td>52.2%</td>
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</tr>
<tr>
<td>B-Forb</td>
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<td>0.0%</td>
</tr>
<tr>
<td>A-Forb</td>
<td>6.5%</td>
<td>0.0%</td>
</tr>
<tr>
<td>P-Grass</td>
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<td>2.2%</td>
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<td>A-Grass</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>P-Sedge</td>
<td>23.9%</td>
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<tr>
<td>A-Sedge</td>
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<td>0.0%</td>
</tr>
<tr>
<td>Cryptogam</td>
<td>2.2%</td>
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**INVENTORY DATA**

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<tr>
<th>ACRONYM</th>
<th>SCIENTIFIC NAME</th>
<th>W</th>
<th>WETNESS</th>
<th>PHYSIOG.</th>
<th>COMMON NAME</th>
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<tr>
<td>ARITRI</td>
<td>Arisaema triphyllum</td>
<td>-2</td>
<td>FACW-</td>
<td>P-FORB</td>
<td>JACK-IN-THE-PULPIT</td>
</tr>
<tr>
<td>ASTLAT</td>
<td>Aster lateriflorus</td>
<td>-2</td>
<td>FACW-</td>
<td>P-FORB</td>
<td>SIDE-FLOWERING ASTER</td>
</tr>
<tr>
<td>ASTPUP</td>
<td>Aster puniceus</td>
<td>-5</td>
<td>OBL</td>
<td>P-FORB</td>
<td>BRISTLY ASTER</td>
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<td>BIDFRO</td>
<td>Bidens frondosa</td>
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<td>FACW</td>
<td>A-FORB</td>
<td>COMMON BEGGAR'S TICKS</td>
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<td>Caltha palustris</td>
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<td>P-FORB</td>
<td>MARSH MARIGOI</td>
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<tr>
<td>CXBLAN</td>
<td>Carex blanda</td>
<td>0</td>
<td>FAC</td>
<td>P-SEDGE</td>
<td>COMMON WOOD SEDGE</td>
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<tr>
<td>CXGRAN</td>
<td>Carex granularis</td>
<td>-4</td>
<td>FACW+</td>
<td>P-SEDGE</td>
<td>PALE SEDGE</td>
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<td>CXHYST</td>
<td>Carex hystericina</td>
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<td>OBL</td>
<td>P-SEDGE</td>
<td>PORCUPINE SEDGE</td>
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<tr>
<td>CXNTE</td>
<td>Carex interior</td>
<td>-5</td>
<td>OBL</td>
<td>P-SEDGE</td>
<td>PRAIRIE STAR SEDGE</td>
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<td>CXLEPA</td>
<td>Carex leptalea</td>
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<td>OBL</td>
<td>P-SEDGE</td>
<td>SLENDER SEDGE</td>
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<td>Carex pallida</td>
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<td>P-SEDGE</td>
<td>BROAD-LEAVED WOOLLY SEDGE</td>
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<td>CXSTER</td>
<td>Carex sterilis</td>
<td>-5</td>
<td>OBL</td>
<td>P-SEDGE</td>
<td>FEN STAR SEDGE</td>
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<td>CXSTIP</td>
<td>Carex stipata</td>
<td>-5</td>
<td>OBL</td>
<td>P-SEDGE</td>
<td>COMMON FOX SEDGE</td>
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<td>CXSTRI</td>
<td>Carex stricta</td>
<td>-5</td>
<td>OBL</td>
<td>P-SEDGE</td>
<td>COMMON TUSSOCK SEDGE</td>
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<tr>
<td>CXVULP</td>
<td>Carex vulpinoidae</td>
<td>-5</td>
<td>OBL</td>
<td>P-SEDGE</td>
<td>BROWN FOX SEDGE</td>
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<tr>
<td>CIIRLUC</td>
<td>Circaea lutetiana canadensis</td>
<td>3</td>
<td>FACU</td>
<td>P-FORB</td>
<td>ENCHANTER'S NIGHTSHADE</td>
</tr>
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<td>ELEELL</td>
<td>Eleocharis elliptica</td>
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<td>OBL</td>
<td>P-SEDGE</td>
<td>GOLDEN-SEEDED SPIKE RUSH</td>
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<td>EQUARY</td>
<td>Equisetum arvense</td>
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<td>P-SEDGE</td>
<td>HORSETAIL</td>
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<td>Erigeron philadelphicus</td>
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Appendix 1-1
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Boloria Meadows

SITE: Boloria Meadows
LOCAL: McHenry County, Illinois
west of McAndrews Glen drive, which goes north from Bull Valley Road about 3.2 miles west of Route 31
west of McHenry, Illinois
DATE: June 1, July 27, and August 6, 2004
BY: Barbara Johnson, Brad Semel, Steve Byers
FILE: BolMdws04-inv

FLORISTIC QUALITY DATA

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-3 FACW NT TREE SILVER MAPLE
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-3 FACW Ad P-GRASS REDTOP
-5 OBL NT P-FORB LARGE-FLOWEDED WATER PLANTAIN
5 UPL NT P-FORB TALL ANEMONE
-5 OBL NT P-FORB GREAT ANGELICA
-1 FAC+ NT A-FORB GIANT RAGWEED
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-5 OBL NT A-FORB NODDING BUR MARIGOLD
-5 [OBL] NT A-FORB SWAMP TICKSEED
-3 FACW NT A-FORB COMMON BEGGAR'S TICKS
0 FAC CRYPTOGRAM CUT-LEAVED GRAPE FERN
-5 OBL NT P-GRASS BLUE JOINT GRASS
-5 OBL NT P-FORB MARSH MARIGOLD
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Appendix I–3
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POLPER  * Polygonum persicaria
POLACR  9 Polystichum acrostichoides
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RANSE  5 Ranunculus sceleratus
RHACAT  * Rhamnus cathartica
RHAFRA  * Rhamnus frangula
RUHVER  10 Rhus vernix
RIBAME  7 Ribes americanum
ROS_MUL * Rosa multiflora
RUMCRI  * Rumex crispus
SAGCUN  8 Sagittaria cuneata
SANGE  2 Sanicula gregaria
SCIATR  4 Scirpus atrovirens
SCUEPI  5 Scutellaria epilobiifolia
SCULAT  5 Scutellaria lateriflora
SENPAL  6 Senecio pauperculus
SEPLDA  6 Senecio plattensis
SMIRAC  3 Smilacina racemosa
SMIECI  5 Smilax ehirhata
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SOLGIG  4 Solidiago gigantea
SOLGRN  3 Solidiago graminifolia nuttallii
SOLJUN  6 Solidiago juncea
SOLOHI  9 Solidiago ohiensis
SOLRID  7 Solidiago riddellii
SHPINT  4 Sphenopholis intermedia
STAPAH  5 Stachys palustris homotricha
SYMFOE  8 Symphyotrichum foetidus
THADAD  5 Thalictrum dasyacarpum
TYPLAT  1 Typha latifolia
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ULMURB  4 Ulmus rubra
URTPRO  2 Urtica procera
VERHAS  4 Verbena hastata
VIBOPU  * Viburnum opulus
VITRIP  2 Vitis riparia
ZIZAUR  7 Zizia aurea

2 FACU+     Ad P-GRASS
1 FAC-     Ad P-GRASS
-5 OBL     Ni P-FORB
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5 UPL     CRYPTOGRAM
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-1 FAC+   Ni P-FORB

CANADA BLUE GRASS
KENTUCKY BLUE GRASS
WATER KNOTWEED
LADY'S THUMB
CHRISTMAS FERN
COMMON MOUNTAIN MINT
BUR OAK
HOOKED BUTTERCUP
CURSED BUTTERCUP
COMMON BUCKTHORN
GLOSSY BUCKTHORN
POISON SUMAC
WILD BLACK CURRANT
MULTIFLORA ROSE
CURLY DOCK
ARUM-LEAVED ARROWHEAD
CLUSTERED BLACK SNAKEROOT
DARK GREEN RUSH
MARSH SKULLCAP
MAD-DOG SKULLCAP
BALSAM RAGWORT
PRAIRIE RAGWORT
FEATHERY FALSE SOLOMON'S SEAL
UPRIGHT CARRION FLOWER
BITTERSWEET NIGHTSHADE
TALL GOLDENROD
LATE GOLDENROD
HAIRY GRASS-LEAVED GOLDENROD
EARLY GOLDENROD
OHIO GOLDENROD
RIDDLE'S GOLDENROD
SLENDER WEDGE GRASS
WOUNDWORT
SKUNK CABBAGE
PURPLE MEADOW RUE
BROAD-LEAVED CATTAI
SIBERIAN ELM
SLIPPERY ELM
TALL NETTLE
BLUE VERVAIN
EUROPEAN HIGHTHUSH CRANBERRY
RIVERBANK GRAPE
GOLDEN ALEXANDERS

Appendix 1–5
North Boloria

SITE: North Boloria
LOCALE: McHenry County, Illinois
west of McAndrews Glen drive, which goes north from Bull Valley Road about 3.2 miles west of Route 31
west of McHenry, Illinois
DATE: June 1, 2004
BY: Barbara Johnson, Brad Semel, Steve Byers
FILE: NBol-1Jun04

FLORISTIC QUALITY DATA

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**Miles Property**

**SITE:** Miles Property  
**LOCATE:** McHenry County, Illinois  
- on north side of Bull Valley Road, 5.2 miles west of Route 31  
- east of Woodstock, Illinois  
**DATE:** June 1, 2004  
**BY:** Barbara Johnson, Brad Semel  
**FILE:** Miles-1Jun04

### FLORISTIC QUALITY DATA

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### INVENTORY DATA

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<td>CREEPING CHARLIE</td>
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GLYSTR  4  Glyceria striata  -3  [FACW]  NT  P-GRASS  FOWL MANNA GRASS
HACVIR  0  Hackelia virginiana  1  FAC-  NT  B-FORB  STICKSEED
HELAUT  5  Helianthus autumnale  -4  FACW+  NT  P-FORB  SNEEZEWEEDE
HELGRO  2  Helianthus grosseserratus  -2  FACW-  NT  P-FORB  SAWTOOTH SUNFLOWER
HELHEL  5  Helippia helianthoides  5  UPL  NT  P-FORB  FALSE SUNFLOWER
HYPHIR  9  Hypoxis hirsuta  0  FAC  NT  P-FORB  YELLOW STAR GRASS
IMPCAP  3  Impatiens capensis  -3  FACW  NT  A-FORB  ORANGE JEWELWEED
IRIVIS  5  Iris virginica shrevei  -5  OBL  NT  P-FORB  BLUE FLAG
JUGNIG  5  Juglans nigra  3  FACU  NT  TREE  BLACK WALNUT
LATPAP  8  Lathyrus palustris  -3  FACW  NT  P-FORB  MARSH VETCHLING
LIASPI  6  Liatris spicata  0  FAC  NT  P-FORB  MARSH BLAZING STAR
LOBSPK  6  Lobelia siphilitica  -4  FACW+  NT  P-FORB  GREAT BLUE LOBELIA
LONMAA  *  Lonicer maackii  5  UPL  Ad  SHRUB  AMUR HONEYSUCKLE
LONBEL  *  Lonicer X bella  4  FACU  Ad  SHRUB  SHOONY FLY HONEYSUCKLE
LYCALB  *  Lychnis alba  5  UPL  Ad  A-FORB  WHITE CAMPION
LYCAM  5  Lycopus americanus  -5  OBL  NT  P-FORB  COMMON WATER HOREHOUND
MENARV  4  Mentha arvensis villosa  -5  [OBL]  NT  P-FORB  WILD MINT
MONFIS  4  Monarda fistulosa  3  FACU  NT  P-FORB  WILD BERGAMOT
NASOFF  *  Nasturtium officinale  -5  OBL  Ad  P-FORB  WATER CRESS
OXAUR  0  Oxalis europaea  3  FACU  NT  P-FORB  TALL WOOD SORREL
OXYRIG  7  Oxypolis rigdior  -5  OBL  NT  P-FORB  COWBANE
PARQUI  2  Parthenocissus quinquefolia  1  FAC-  NT  W-VINE  VIRGINIA CREEPER
PASSAT  *  Pastinaca sativa  5  UPL  Ad  B-FORB  WILD PARSNIP
PENDIG  4  Penstemon digitalis  1  FAC-  NT  P-FORB  FOXGLOVE BEARD TONGUE
POAPRA  *  Poa pratensis  1  FAC-  Ad  P-GRASS  KENTUCKY BLUE GRASS
POLSCL  1  Polygonum scandens  0  FAC  NT  H-VINE  CLIMBING FALSE BUCKWHEAT
PRUVLA  0  Prunella vulgaris lanceolata  3  [FACU]  NT  P-FORB  SELF HEAL
PRUSER  1  Prunus serotina  3  FACU  NT  TREE  WILD BLACK CHERRY
PYCVIR  5  Pycnanthemum virginianum  -4  FACW+  NT  P-FORB  COMMON MOUNTAIN MINT
QUERUB  7  Quercus rubra  3  FACU  NT  TREE  RED OAK
RANREC  5  Ranunculus recurvatus  -3  FACW  NT  A-FORB  HOOKED BUTTERCUP
RHACAT  *  Rhamnus cathartica  3  FACU  Ad  SHRUB  COMMON BUCKTHORN
RHAFFR  *  Rhamnus frangula  -1  FAC+  Ad  SHRUB  GLOSSY BUCKTHORN
RIBAME  7  Ribes americanum  -3  FACW  NT  SHRUB  WILD BLACK CURRANT
ROSMLU  *  Rosa multiflora  3  FACU  Ad  SHRUB  MULTIFLORA ROSE
RUBOCC  2  Rubus occidentalis  5  UPL  NT  SHRUB  BLACK RASPBERRY
SALDIS  2  Salix discolor  -3  FACW  NT  SHRUB  PUSSY WILLOW
SILPER  5  Silphium perfoliatum  -2  FACW-  NT  P-FORB  CUP PLANT
SILTER  5  Silphium terebinthinaceum  3  FACU  NT  P-FORB  PRAIRIE DOCK
SOLATR  1  Solidago altissima  3  FACU  NT  P-FORB  TALL GOLDENROD
SOLGG  4  Solidago gigantea  -3  FACW  NT  P-FORB  LATE GOLDENROD
SOLGNO  3  Solidago graminifolia nutallii  0  [FAC]  NT  P-FORB  HAIRY GRASS-LEAVED GOLDENROD
STAPAH  5  Stachys palustris homotricha  -5  OBL  NT  P-FORB  WOUNDWORT
STATEH  5  Stachys tenuifolia hispida  -4  FACW+  NT  P-FORB  MARSH HEDGE NETTLE
THADAD  5  Thalictrum dasycarpum  -2  FACW-  NT  P-FORB  PURPLE MEADOW RUE
TRUPO  5  Triosteum perfoliatum  5  UPL  NT  P-FORB  LATE HORSE GENTIAN
UURTRO  2  Urtica procera  -1  FAC+  NT  P-FORB  TALL NETTLE
VERHAS  4  Verbena hastata  -4  FACW+  NT  P-FORB  BLUE VERVAIN
VERURE  5  Verbena urticifolia  5  UPL  NT  P-FORB  HAIRY WHITE VERVAIN
VIBLEN  5  Viburnum lentago  -1  FAC+  NT  SHRUB  NANNYBERRY
VIBOPU  *  Viburnum opulus  3  [FACU]  Ad  SHRUB  EUROPEAN HIGHBUSH CRANBERRY
ZIZAUR  7  Zizia aurea  -1  FAC+  NT  P-FORB  GOLDEN ALEXANDERS
Tauck Property

SITE: Tauck Property (survey concentrated on 3 wetlands)
LOCALE: McHenry County, Illinois
          Gilbert and Susan Tauck
          1304 Deerpass Road
          Marengo, Illinois 60152
DATE: July 26 and August 19, 2004
BY: Barbara Johnson, Susan Tauck, Steve Byers
FILE: Tauck-19Aug04

FLORISTIC QUALITY DATA

| 128 | NATIVE SPECIES   | 84.8%   | 151 | Total Species | 11 Shrub  | 7 Shrub  | 4.6% |
| 4.2 | NATIVE MEAN C   | 6 W-Vine | 3.5 | W/Adventives  | 3 H-Vine  | 0 H-Vine  | 2.0% |
| 47.0| NATIVE QFI      | 60 P-Forb | 43.3| W/Adventives  | 5 B-Forb  | 0 B-Forb  | 3.3% |
| 0.4 | NATIVE MEAN W   | 13 A-Forb | 0.7 | W/Adventives  | 9 P-Grass | 0 P-Grass | 6.0% |
| AVG:| FACULTATIVE     | 1 A-Grass | 10 | P-Sedge       | 6.6%      | 0 P-Sedge | 0.0% |
|     | 0 A-Grass       | 0.7%     | 0   | 2 P-Grass     | 6.6%      | 0 P-Sedge | 0.0% |
|     | 0 Cryptogram    | 0.0%     | 0   | 1 A-Grass     | 0.7%      | 0 P-Sedge | 0.0% |

INVENTORY DATA

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<th>ACRONYM</th>
<th>SCIENTIFIC NAME</th>
<th>W</th>
<th>WETNESS</th>
<th>PHYSIOG.</th>
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Clemetsen Property

SITE: Clemetsen Property
LOCALE: McHenry County, Illinois
John and Timmie Clemetsen
19317 Stateline Road
Harvard, Illinois 60033
DATE: September 17, 2004
BY: Barbara Johnson, Brad Semel, Timmie and John Clemetsen, George Johnson
FILE: Clem-17Sep04

FLORISTIC QUALITY DATA

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BROKAL  10  Bromus kalmii  
BROPUB  5  Bromus pubescens  
CALCAN  3  Calamagrostis canadensis  
CAMAPA  8  Campanula aparinaoides  
CARACA  *  Carduus acanthoides  
CHHYST  5  Carex hysterica  
CXPENS  5  Carex pensylvanica  
CVVULP  2  Carex vulpinoidea  
CAROVT  5  Carya ovata  
CHEGLB  8  Chelone glabra  
CHEALB  *  Chenopodium album  
CICMAC  6  Cicuta maculata  
CIRLUC  1  Circaea lutetiana canadensis  
CIRAV *  Cirrus arvense  
CIRMUT  10  Cirsium muticum  
CRIVUL  *  Cirsium vulgaris  
CORRAC  1  Cornus racemosa  
CORAME  5  Corylus americana  
CRAMOL  2  Cragaetus mollis  
CUSGLO  7  Cuscuta glomerata  
DACGLO  *  Dactylis glomerata  
DAUCAR  5  Daucus carota  
DIAARM  *  Dianthus armeria  
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DROTHP  6  Dryopteris thelypteris pubescens  
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ECHLOR  5  Echinocystis lobata  
ELYVIL  5  Elymus villosus  
ELYVIP  4  Elymus virgicus  
EPICIL  3  Epilobium ciliatum  
EQUARV  0  Equisetum arvense  
EREHIE  2  Erechtites hieracifolia  
ERICAN  0  Erigeron canadensis  
ERYYLC  9  Eryngium yuccifolium  
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EUPPER  4  Eupatorium perfoliatum  
EUPRUL  4  Eupatorium rugosum  
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GALBOR  7  Galium boreale  
GALCON  5  Galium concinnum  
GALTEN  5  Galium triflorum  
GENAND  8  Gentiana andrewsii  
GENQUO  8  Gentiana quinquefolia occidentalis  
GERMAC  4  Geranium maculatum  
GEUALS  7  Geum aleppicum strictum  
GEUCAN  7  Geum canadense  
GLYSTR  4  Glycyrrhiza striata  
HACVIR  0  Hackelia virginiana  
HELAUT  5  Helianthemum autumnale  
HELGRO  2  Helianthus grosseserratus  
HYPPER  *  Hypericum perforatum  
HYSNSAT  5  Hystrix patula  
IMPCAP  3  Impatiens capensis  
JUGNIG  5  Juglans nigra  
JUNDUD  4  Juncus dudleyi  
JUNTOR  4  Juncus torreyi  
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LACCAN  2  Lactuca canadensis  
LACSER *  Lactuca serriola  

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0  FAC  Nt P-GRASS  PRAIRIE BROME  
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-5  OBL  Nt P-GRASS  COMMON OAK SEDGE  
5  UPL  Ad B-FORB  PLUMELESS THISTLE  
-5  OBL  Nt P-SEDEGE  PORCUPINE SEDGE  
5  UPL  Nt P-SEDEGE  BROWN FOX SEDGE  
3  FACU  Nt TREE  SHAGBARK HICKORY  
5  OBL  Nt P-FORB  TURTLEHEAD  
5  OBL  Nt P-FORB  LAMB'S QUARTERS  
3  FACU  Nt P-FORB  ENCHANTER'S NIGHTSHADE  
5  UPL  Ad P-FORB  FIELD THISTLE  
-5  OBL  Nt B-FORB  SWAMP THISTLE  
4  FACU-  Ad B-FORB  BULL THISTLE  
-2  FACW-  Nt SHRUB  GRAY DOGWOOD  
4  FACU-  Nt SHRUB  AMERICAN HAZELNUT  
4  FACU-  Nt TREE  DOWNY HAWTHORN  
-3  [FACW]  Nt A-FORB  ROPE DODDER  
3  FACU  Ad P-FORB  ORCHARD GRASS  
5  UPL  Ad B-FORB  QUEEN ANNE'S LACE  
5  UPL  Ad A-FORB  DEPTFORD PINK  
-2  FACW-  CRYPTOGRAM  SPINULOSE SHIELD FERN  
-5  [OBL]  CRYPTOGRAM  MARSH SHIELD FERN  
-3  FACW  Nt A-FORB  BARNYARD GRASS  
-2  FACW-  Nt H-VINE  WILD CUCUMBER  
3  FACU  Nt P-GRASS  SILKY WILD RYE  
-2  FACW-  Nt P-GRASS  VIRGINIA WILD RYE  
4  FACU-  Nt P-FORB  NORTHERN WILLOW HERB  
0  FAC  CRYPTOGRAM  HORSETAIL  
3  FACU  Nt A-FORB  FIREWEED  
1  FAC-  Nt A-FORB  HORSEWEED  
1  FAC+  Nt P-FORB  RATTLESNAKE MASTER  
-5  OBL  Nt P-FORB  SPOTTED JOE PYE WEEED  
-4  FACW+  Nt P-FORB  COMMON BONESET  
5  UPL  Nt P-FORB  WILF JOE PYE WEEED  
5  UPL  Nt P-FORB  WHITE SNAKEROOT  
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2  FACU+  Nt P-FORB  SWEET-SCENTED BEDSTRAW  
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0  FAC  Nt P-FORB  WOOD AVENS  
-3  [FACW]  Nt P-GRASS  FOWL MANNA GRASS  
1  FAC-  Nt B-FORB  STICKSEED  
-4  FACW+  Nt P-FORB  SNEEZEWEEED  
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5  UPL  Ad P-FORB  COMMON ST. JOHN'S WORT  
5  UPL  Nt P-GRASS  BOTTLEBRUSH GRASS  
-3  FACW  Nt A-FORB  ORANGE JEWELWEED  
3  FACU  Nt TREE  BLACK WALNUT  
0  [FAC]  Nt P-FORB  DUDLEY'S RUSH  
-3  FACW  Nt P-FORB  TORREY'S RUSH  
0  FAC  Nt B-FORB  TALL BLUE LETTUCE  
2  FACU+  Nt B-FORB  WILD LETTUCE  
0  FAC  Ad B-FORB  PRICKLY LETTUCE
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<td>Solidago gigantea</td>
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<td>SPOHET</td>
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<td>Nt P-FORB</td>
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</tr>
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<td>Triostegium aurantiacum</td>
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<td>Nt P-FORB</td>
</tr>
<tr>
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<td>Triostegium perfoliatum</td>
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<td>UPL</td>
<td>Nt P-FORB</td>
</tr>
<tr>
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<td>Urtica procera</td>
<td>-1</td>
<td>FAC+</td>
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<td>Verbascum thapsus</td>
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<td>FACW+</td>
<td>Nt P-FORB</td>
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<td>Viburnum opulus</td>
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<td>Vitis riparia</td>
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<td>FACW-</td>
<td>Nt W-VINE</td>
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Appendix I-16
**Johnson Pond**

**SITE:** Johnson Driveway Pond  
**LOCATE:** McHenry County, Illinois  
George and Marilyn Johnson  
9917 Reese Road  
Harvard, Illinois 60033  
**DATE:** September 17, 2004 (plus 3 dried specimens)  
**BY:** Barbara Johnson, Brad Semel, George Johnson, Timmie Clemetesen  
**FILE:** JPond-17Sep04

**FLORISTIC QUALITY DATA**

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<td>7.1%</td>
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<td>3 A-Grass 2.4%</td>
<td>0 A-Sedge 0.0%</td>
<td>0 A-Sedge 0.0%</td>
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<td>0 Cryptogam 0.0%</td>
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**INVENTORY DATA**

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<th>WETNESS</th>
<th>PHYSIOG</th>
<th>COMMON NAME</th>
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<td>ACRHPO</td>
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<td>THREE-SEED MERCURY</td>
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<tr>
<td>ACESAI</td>
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<td>SILVER MAPLE</td>
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<tr>
<td>ACNLAT</td>
<td>Acnida alissima</td>
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<td>NT-A-FORB</td>
<td>WATER HEMP</td>
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<td>ALISUB</td>
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<td>COMMON WATER PLANTAIN</td>
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<tr>
<td>ALOAEO</td>
<td>Aloe perennis aequalis</td>
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<td>SHORT-awned FOXTAIL</td>
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<tr>
<td>ASCINC</td>
<td>Asclepias incarnata</td>
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<td>NT-P-FORB</td>
<td>SWAMP MILKWEED</td>
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<tr>
<td>ASTFLO</td>
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<td>ASTPHE</td>
<td>Aster puniceus firmus</td>
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<td>NT-P-FORB</td>
<td>SHINING ASTER</td>
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<td>BIDCER</td>
<td>Bidens cernua</td>
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<td>BIDFRO</td>
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<td>NT-A-FORB</td>
<td>COMMON BEGGAR'S TICKS</td>
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<td>CYPSTR</td>
<td>Cypres strigosus</td>
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<td>LONG-SCALED NUT SEDGE</td>
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<td>ECHCRU</td>
<td>Echinocloa crusgalli</td>
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<td>BARNYARD GRASS</td>
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<tr>
<td>ELEOB</td>
<td>Eleocereus obtusa</td>
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<td>BLUNT SPIKE RUSH</td>
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<tr>
<td>EPICIL</td>
<td>Epilobium ciliatum</td>
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<td>Galium trifidum</td>
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<td>SMALL BEDSTRAW</td>
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<td>LEMTRI</td>
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<tr>
<td>LUDPOL</td>
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<td>FALSE LOOSESTRIFE</td>
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<td>LYSTHY</td>
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<td>MARIAB</td>
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<td>WILD MINT</td>
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Appendix I-17
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<tr>
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<tr>
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<tr>
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Blair Seeps and Prairie

SITE: Blair Seeps and Prairie
LOCALE: McHenry County, Illinois
along the west side of Reese Road north of Oak Grove Road
Harvard, Illinois
DATE: September 17 and 28, October 12
BY: Barbara Johnson, Brad Semel, George Johnson
FILE: Blair04-inv

FLORISTIC QUALITY DATA

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<td>0 A-Sedge 0.0%</td>
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INVENTORY DATA

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<th>WETNESS</th>
<th>PHYSIOG.</th>
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<td>TALL AGRIMONY</td>
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<td>REDTOP</td>
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<td>COMMON RAGWEED</td>
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<td>Nt H-VINE</td>
<td>UPLAND HOG PEANUT</td>
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<td>Andropogon gerardii</td>
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<td>BIG BLUESTEM GRASS</td>
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<td>ANDSCO</td>
<td>Andropogon scoparius</td>
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<td>ASTLAT</td>
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<td>ASTPIF</td>
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<td>SWAMP THISTLE</td>
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**Abbreviations:**
- FACW: Field Assemblage Code Word
- NLT: Not Listed
- P-FORB: Plant for Botanical Survey

**Common Names:**
- Bottle Gentian
- Fringed Gentian
- Small Fringed Gentian
- Wild Geranium
- SAWTOOTH SUNFLOWER
- HYBRID SUNFLOWER
- PALE-LEAVED SUNFLOWER
- SHORT-HEADED RUSH
- DUDLEY'S RUSH
- JOINT RUSH
- TORREY'S RUSH
- ROUGH BLAZING STAR
- PRAIRIE BLAZING STAR
- TURK'S CAP LILY
- BOG LOBELIA
- COMMON WATER HOUREND
- NORTHERN BUGLE WEED
- NARROW-LEAVED LOOSESTRIFE
- WINGED LOOSESTRIFE
- WILD BERGAMOT
- MARSH WILD TIMOTHY
- LEAFY SATIN GRASS
- COMMON EVENING PRIMROSE
- COWBANE
- WIRY PANIC GRASS
- GRASS OF PARNASSUS
- REED CANARY GRASS
- TIMOTHY
- KENTUCKY BLUE GRASS
- COMMON MOUNTAIN MINT
- YELLOW CONEFLOWER
- GLOSSY BUCKTHORN
- HAIR BEAK RUSH
- PASTURE ROSE
- BLACK-EYED SUSAN
- BROWN-EYED SUSAN
- SANDBAR WILLOW
- ELDERBERRY
- SMALL SKULLCAP
- BALSAM RAGWORT
- DEAM'S ROSE WOOD
- COMMON BLUE-EYED GRASS
- FEATHERY FALSE SOLOMON'S SEAL
- STARRY FALSE SOLOMON'S SEAL
- COMMON CARRION FLOWER
- TALL GOLDENROD
- LATE GOLDENROD
- COMMON GRASS-LEAVED GOLDENROD
- HAIRY GRASS-LEAVED GOLDENROD
- RIDDEL'S GOLDENROD
- BOG GOLDENROD
- COMMON SOW THISTLE
- INDIAN GRASS
- PRAIRIE CORD GRASS
- COMMON DANDELION
- WAXY MEADOW RUE
- COMMON VALERIAN
- CULVER'S ROOT
- NANNYBERRY
- COMMON BLUE VIOLET
- RIVERBANK GRAPE
- GOLDEN ALEXANDERS

---

Appendix I-20
### APPENDIX II

## TRANSECT DATA

### Boloria Meadows

**SITE:** Boloria Meadows  
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**DATE:** July 27, 2004  
**BY:** Barbara Johnson, Brad Semel  
**FILE:** BolFen04-11

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| Panicum implicatum  | 2  | FAC-   | 3  | 3  | 0.7 | 0.4 | 0.6 |
| Stachys palustris homotricha | 5  | OBL    | 3  | 3  | 0.7 | 0.4 | 0.6 |
| Ulmus pumila        | *  | UPL    | 3  | 3  | 0.7 | 0.4 | 0.6 |
| Solidago ohioensis  | 9  | OBL    | 2  | 5  | 0.5 | 0.7 | 0.6 |
| Pedicularis lanceolata | 9  | OBL    | 2  | 4  | 0.5 | 0.5 | 0.5 |
| Leersia oryzoides   | 4  | OBL    | 2  | 3  | 0.5 | 0.4 | 0.4 |
| Rhamnus frangula    | *  | FAC+   | 2  | 2  | 0.5 | 0.3 | 0.4 |
| Rhus vernix         | 10 | OBL    | 2  | 2  | 0.5 | 0.3 | 0.4 |
| Carex vulpinoida    | 2  | OBL    | 1  | 2  | 0.2 | 0.3 | 0.3 |
| Juncus nodosus      | 6  | OBL    | 1  | 2  | 0.2 | 0.3 | 0.3 |
| Scutellaria epilobiifolia | 5  | OBL    | 1  | 2  | 0.2 | 0.3 | 0.3 |
| Apocynum sibiricum  | 2  | FAC+   | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Asclepias incarnata | 4  | OBL    | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Aster novae-anglae  | 4  | FACW+  | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Calamagrostis canadensis | 3  | OBL    | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Carex stipata      | 3  | OBL    | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Epilobium coloratum | 3  | OBL    | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Impatiens capensis  | 3  | FACW   | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Juniperus virginiana crebra | 2  | FACU   | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Liatris spicata     | 6  | FAC    | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Panicum virgatum    | 5  | FAC+   | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Poa compressa       | *  | FACU+  | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Pycnanthemum virginianum | 5  | FACW+  | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Rhamnus cathartica  | *  | FACU   | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Sphenopholis intermedia | 4  | FAC    | 1  | 1  | 0.2 | 0.1 | 0.2 |
| Ulmus rubra         | 4  | FAC    | 1  | 1  | 0.2 | 0.1 | 0.2 |

407  750

TRANSECT INVENTORY

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Blair Prairie

SITE: Blair Seeps and Prairie
LOCATE: Prairie Transect 1
DATE: October 12, 2004
BY: Barbara Johnson, Brad Semel
FILE: Blair04-t1

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**Physiognomic Relative Importance Values**

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