



ILLINOIS ENDANGERED SPECIES

PROTECTION BOARD

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Plant Endangered Species Technical Advisory Committee (ESTAC)

Approved Minutes— Northern Illinois Plant ESTAC Meeting

August 24, 2018 (10:35am-3:40pm)

Midwin National Tallgrass Prairie Visitor Center Conference Room

ESTAC Members Present: Paul Marcum, Susanne Masi, Greg Spyreas, John Taft, Eric Ulaszek, John Wilker, Tim Bell, and Randy Nyboer

ESTAC Members Absent: Beth Shimp, Chris Benda, and Bill McClain

Others Present: Jeremie Fant (IESPB), Janice Coons (IESPB), Jeannie Barnes (IDNR), Matt Evans (NU PBC), Dan Kirk (IDNR), Kelly Neal (INPC), Gretel Kiefer (Plants of Concern, CBG), Laurie Ryan (McHenry County Conservation District), David Schwaegler (POC & MCCD Plant Monitor), Maggie Cole (IDNR), Scott Kobal (Forest Preserve District DuPage County), Michelle Pearion (USFS-Midwin), Evan Barker (Pizzo, INPS)

1. **General Notes**
2. **Possible New Species for Listing**
3. **Notes on Each Species Discussed**

1. **General Notes of Discussion.**

- **Approval of Minutes:** Minutes of ESTAC meeting held May 25, 2018 for western and central plant species were approved with small changes.
- **Watch List:** This list would include species that are not listed as E or T, but are desirable to monitor how they are doing. This list also would be useful if species are delisted, to continue to monitor them. Other states have these lists, so it would be useful to contact them to see how they handle it. In the early to mid-90s, Illinois had a watch list which was used so that IDOT (Illinois Department of Transportation) did not destroy sensitive plants.
- **Monitoring Plants:** Ways to increase monitoring efforts of sensitive plants including possible ones that have not been reported for several years or are on a potential watch list were suggested. One way was for the Illinois Native Plant Society to ask members to submit records if they observe plant species on a list, or perhaps to have them sponsor some search days. Another suggestion was for the Illinois Endangered Species Protection Board to request funds from IDNR to conduct plant searches... a figure of \$20,000 was suggested as an amount for IESPB to request from IDNR.
- **Taxonomic Issues:** At some point, should have a discussion regarding varieties and subspecies.
- **Book Donation:** Copies of “Bog-Fen Carex” by Linda Curtis were distributed free due to Linda’s generosity.

2. **Species mentioned for possible new listing at Northern Illinois Plant ESTAC meeting.**

- ***Carex debilis***; Marcum will gather data to discuss; may be extirpated; missed last 30 years.
- ***Carex lupuliformis***; Marcum will ask Mike for information.
- ***Carex straminea***; Andrew Hipp will work on this one.
- ***Erythronium mesochorum***; Ask McClain for information.

- *Festuca paradoxa*; Spyreas will gather information; may be extirpated.
- *Heteranthera multiflora*; Ask Benda; populations fluctuate up or not.
- *Monarda clinopodia*; Marcum will gather data.
- *Ranunculus harveyi*; Ask McClain for information.

3. NOTES on each species reviewed at the Northern Illinois Plant ESTAC meeting.

A) CHANGE from Endangered to Threatened OR from Threatened to Endangered

- Chamaedaphne calyculata* (Threatened)—Change to Endangered; 8 of 8; Marcum & Taft will work on petition.
- Cirsium pitcheri* (Threatened)—Change to Endangered; 8 of 8; Bell & Taft will work on petition; 2009 planted at Montrose (potted plants with 10-15 at beaches by park district); bloomed this year; hybrids more vigorous; Wisconsin plants highly inbred; Indiana plants bigger than Illinois ones.
- Larix laricina* (Threatened)—Change to Endangered; 8 of 8; Taft & Ulaszek will work on petition; in Illinois, only in bogs; Volo Bog; some mortality; also in yards & interstates.
- Platanthera leucophaea* (Endangered)—Change to Threatened; 7 of 8 (1 abstain); Bell & Spyreas will work on petition; only 2 of 9 populations are highly viable, rest are low or moderate viability based on 5 year reviews in 1990s; fairly stable since 1999; viable defined by levels that Bowles worked to develop; In US overall, 11 highly viable populations; these values do not include introduced populations; population fluctuation is great.
- Polygonatum pubescens* (Threatened)—Change to Endangered; 7 of 8; Masi will work on petition; river bluffs; only 3 populations with >100 plants; largest population 550 plants.

B) DELIST

- Clematis occidentalis* (Endangered)—Delist; 7 of 8; Nyboer will work on petition.
- Corylus cornuta* (Endangered)—Delist; 8 of 8; Nyboer will work on petition; on private land with new landowner, and no evidence of anything left where cut back...may resprout.
- Carex communis* (Threatened); 8 yes; 1 wants more data (pop size & #s; Voted at May 25, 2018 meeting; Need someone to work on petition (maybe ask Andrew Hipp).

C) NEW LISTING

Juglans cinerea—Add to list as Threatened; 8 of 8; Masi will work on petition; some natural ones resistant to fungi; IDOT plants may be hybrids.

D) DISCUSSION NEEDED

- Carex prasina* (Threatened)—Need more information.
- Delphinium carolinianum* (Threatened)—Need to discuss.
- Dendrolycopodium* species—Needs taxonomic work (i.e. *Lycopodium dendroideum* – Endangered; *Lycopodium clavatum*- Endangered); Might be 2 rare species; Marcum will pursue.
- Epilobium strictum* (Threatened)—Need more information; Lake Elizabeth in bog < 20 plants.
- Hypericum kalmianum* (Endangered)—May need to split and add *H. swinkianum*; two known sites.
- Penstemon tubaeiflorus* (Endangered)—Does not occur in natural habitat; travels in road corridors; with *Bromus inermis*; might be planted; Maybe change to threatened.
- Ranunculus rhomboideus* (Threatened)—Change to Endangered; Need to vote on this change. Masi has been working on petition; at Lost Mounds a couple years ago; Harlem Hills last seen in 1995; know of 5 EOs.
- Salvia azurea* (Threatened)—Discuss to change to Endangered.

- i) *Scleria pauciflora* (Endangered)—Were 2 subspecies when combined 15 count; few seen recently.
- j) *Silene regia* (Endangered)—Consider if natural population vs reintroductions as many are restorations.
- k) *Stenanthium gramineum* (Threatened)—Ask Bob Edgin and Jody Shimp.
- l) *Styrax americanum* (Threatened)—Possibly delist.
- m) *Sullivantia sullivantii* (Threatened)—Ask Duane if safe where it is; declining, may change to endangered.
- n) *Veronica scutellata* (Threatened)—Maybe delist; habitat vulnerable to hydrology; ditches of Kankakee Sands; near vernal ponds; rhizomatous perennial; comes and goes as water levels fluctuate; in several depressions at Busse Woods; new location at Powderhorn.

E) FIELD SEARCHES NEEDED

- a) *Adoxa moschatellina* (Endangered)—1988 last searched; may be extirpated.
- b) *Artemisia dracunculus* (Endangered)
- c) *Bergia texana* (NOT LISTED)—Needs to be searched.
- d) *Botrychium multifidum* (Endangered)
- e) *Buchnera americana* (Threatened)
- f) *Carex crawfordii* (Endangered)
- g) *Carex diandra* (Endangered)—Not seen in 30 years; may be extirpated.
- h) *Cypripedium acaule* (Endangered)
- i) *Deschampsia flexuosa* (Endangered)
- j) *Gymnocarium robertianum* (Endangered); Only one person saw on limestone cliff; others (Ebinger, Phillippe, Moorehouse) not found; ask Duane Ambrosz; may be extirpated.
- k) *Potamogeton gramineus* (Threatened)
- l) *Ranunculus rhomboideus* (Threatened)
- m) *Rosa acicularis* (Endangered)
- n) *Rubus schneideri* (Threatened)—Marcum will search; may be 5 species in northeastern Illinois.

F) TAXONOMIC CHANGES

- a) *Carex canescens* var. *disjuncta*—Drop the variety name from list.
- b) *Cakile edentula*—*C. edentula* is introduced from the east coast; the Great Lakes variety is *C. edentula* var. *lacustris*.
- c) *Deschampsia flexuosa*—has new genus.
- d) *Lesquerella ludoviciana*—now *Physaria ludoviciana*.
- e) *Lycopodium dendroideum*—Needs name change.

G) NO CHANGE RECOMMENDED

YELLOW LIST—Too few EOs to warrant change

- *Andromeda glaucophylla* (Endangered);
- *Artemisia dracunculus* (Endangered);
- *Asclepias ovalifolia* (Endangered);
- *Astragalus tennesseensis* (Endangered);
- *Baptisia tinctoria* (Endangered);
- *Betula alleghaniensis* (Endangered);
- *Botrychium campestre* (Endangered);
- *Botrychium matricariifolium* (Endangered);
- *Calla palustris* (Endangered);
- *Calopogon oklahomensis* (Endangered);
- *Carex brunnescens* (Endangered);
- *Carex canescens* var. *disjuncta* (Endangered);
- *Carex chordorrhiza* (Endangered);
- *Carex disperma* (Endangered);
- *Carex garberi* (Endangered);
- *Carex oligosperma* (Endangered);
- *Carex plantaginea* (Endangered);
- *Carex trisperma* (Endangered);
- *Comptonia peregrina* (Endangered);

- *Cystopteris laurentiana* (Endangered);
- *Deschampsia flexuosa* (Endangered); at McDonald's Woods; not seen in several years;
- *Eleocharis olivacea* (Endangered);
- *Eleocharis pauciflora* (Endangered);
- *Equisetum sylvaticum* (Endangered);
- *Gratiola quartermaniae* (Endangered);
- *Illiamna remota* (Endangered);
- *Juniperus horizontalis* (Endangered);
- *Lycopodiella inundata* (Endangered);
- *Medeola virginiana* (Endangered);
- *Megalodonta beckii* (Endangered);
- *Mirabilis hirsuta* (Endangered);
- *Orobanche fasciculata* (Endangered);
- *Platanthera ciliaris* (Endangered);
- *Poa languida* (Endangered);
- *Salix serissima* (Endangered);
- *Salix syrticola* (Endangered);
- *Scirpus microcarpus* (Endangered);
- *Shepherdia canadensis* (Endangered);
- *Sorbus americana* (Endangered);
- *Sparganium americanum* (Endangered);
- *Symphoricarpos albus* var. *albus* (Endangered);
- *Tracaulon arifolium* (Endangered);
- *Urticularia cornuta* (Endangered);
- *Urticularia subulata* (Endangered);
- *Vaccinium oxycoccus* (Endangered);
- *Valeriana uliginosa* (Endangered);
- *Woodsia ilvensis* (Endangered);

RED LIST—Not seen in 20 years

- *Botrychium multifidum* (Endangered);
- *Botrychium simplex* (Endangered);
- *Carex crawfordii* (Endangered); Taft searched; not found; disturbance adapted; need more searches
- *Carex diandra* (Endangered); possibly extirpated;
- *Chimaphila umbellata* (Endangered);
- *Circaea alpina* (Endangered);
- *Conioselinum chinense* (Endangered);
- *Corydalis sempervirens* (Endangered); think someone found but not in database; just Cook County, other 3 counties old records; Wilhelm may have found at Commonwealth & Edison; Devil's Backbone; LaSalle and Ogle in database; fire stimulates in Illinois
- *Cypripedium acaule* (Endangered); Not seen in last 3 years; found in 1994 & 1999; searched in

- 2008; another site not seen since 1970s
- *Dichanthelium portoricense* (Endangered);
- *Equisetum scirpoides* (Endangered);
- *Juncus vaseyi* (Endangered);
- *Potamogeton strictifolius* (Endangered);
- *Rhamnus alnifolia* (Endangered); not seen in Kendall County or since 1999; not seen in 3-4 searches in last 3-4 years;
- *Trichophorum cespitosum* (Endangered);
- *Valerianella chenopodifolia* (Endangered);

BLUE LIST—Federally listed species

- *Asclepias meadii* (Endangered);
- *Dalea foliosa* (Endangered); thousands at Midewin and outside cages;
- *Lespedeza leptostachya* (Endangered);
- *Tetraneuris herbacea* (Endangered);

WHITE LIST--

- *Alnus incana* ssp. *rugosa* (Endangered);
- *Amelanchier interior* (Threatened);
- *Amelanchier sanguinea* (Endangered);
- *Ammophila breviligulata* (Threatened);
- *Arctostaphylos uva-ursa* (Endangered);
- *Asclepias lanuginosa* (Endangered);
- *Aster furcatus* (Threatened);
- *Astragalus distortus* (Endangered);
- *Beckmannia syzigachne* (Endangered);
- *Buchnera americana* (Threatened); habitat vulnerable; hill prairies with no management; when seen, 50 plants is a lot; in seed mixes;
- *Cakile edentula* (Threatened);
- *Calopogon tuberosus* (Endangered);
- *Carex aurea* (Threatened);
- *Carex bromoides* (Threatened);
- *Carex cryptolepis* (Threatened);
- *Carex cumulata* (Endangered);
- *Carex echinata* (Endangered);
- *Carex formosa* (Endangered);
- *Carex intumescens* (Endangered);
- *Carex tuckermanii* (Endangered);
- *Carex viridula* (Threatened); sandy trails & wetlands, ditches, pond shores; abundant where found; easy to translocate; lost as vegetation encroaches; Marcum saw more in past but less recently; Vote to delist, defeated 4 to 4;
- *Castilleja sessiliflora* (Endangered);
- *Ceanothus herbaceus* (Endangered);
- *Chamaesyce polygonifolia* (Endangered);
- *Cimicifuga racemosa* (Endangered);
- *Corallorhiza maculata* (Endangered);

- *Cornus canadensis* (Endangered);
 - *Cypripedium parviflorum* (Endangered);
 - *Cypripedium reginae* (Endangered);
 - *Dichanthelium boreale* (Endangered);
 - *Drosera intermedia* (Threatened);
 - *Drosera rotundifolia* (Endangered);
 - *Eleocharis rostellata* (Threatened);
 - *Elymus trachycaulus* (Endangered);
 - *Eriophorum virginicum* (Endangered);
 - *Filipendula rubra* (Threatened); Nyboer knows of 5 naturally occurring sites & Ulaszek knows of 2 & Marcum of 1; also at Starved Rock plus 2 other sites; plant nurseries grow from seed, but unsure how often viable seed naturally; clonal;
 - *Geranium bicknellii* (Endangered);
 - *Helianthus giganteus* (Endangered);
 - *Huperzia porophila* (Threatened);
 - *Hypericum kalmianum* (Endangered);
 - *Isoetes butleri* (Endangered);
 - *Juncus alpinoarticulatus* (Threatened); not at risk, but numbers not showing;
 - *Juniperus communis* (Threatened);
 - *Lathyrus ochroleucus* (Threatened); few plants at Castle Rock & Apple River; lots of deer browse at Lake and Cook Counties; low seed production;
 - *Lechea intermedia* (Endangered);
 - *Malvastrum hispidum* (Endangered); annual; survives where disturbed & brutal conditions; can go from thousands to one plant in a year;
 - *Menyanthes trifoliata* (Threatened);
 - *Mimulus glabratus* (Endangered);
 - *Minuartia patula* (Threatened);
 - *Nothocalais cuspidata* (Endangered);
 - *Pinus banksiana* (Endangered);
 - *Plantago cordata* (Endangered);
 - *Platanthera clavellata* (Endangered);
 - *Platanthera flava* (Threatened); new population in Union County;
 - *Platanthera psycodes* (Endangered);
 - *Poa alsodes* (Endangered);
 - *Pogonia ophioglossoides* (Endangered);
 - *Polygonum careyi* (Endangered);
 - *Populus balsamifera* (Endangered);
 - *Potamogeton gramineus* (Threatened);
 - *Potamogeton praelongus* (Endangered);
 - *Potamogeton robbinsii* (Endangered);
 - *Rhynchospora alba* (Endangered);
 - *Ribes hirtellum* (Endangered);
 - *Rubus odoratus* (Threatened); first collection 1800s; 1873 Cook County; in ravine as native in Lake County; genetic studies may help;
 - *Rubus pubescens* (Threatened);
 - *Rubus schneideri* (Threatened); Marcum will search; 10 EOs, but may be different species; may be 5 species in northeastern Illinois;
 - *Sambucus racemosa* ssp. *pubens* (Endangered);
 - *Sarracenia purpurea* (Endangered);
 - *Scirpus hattorianus* (Endangered);
 - *Sisyrinchium montanum* (Endangered);
 - *Sparganium emersum* (Endangered);
 - *Spiranthes lucida* (Endangered);
 - *Stellaria pubera* (Endangered);
 - *Tofieldia glutinosa* (Threatened);
 - *Trientalis borealis* (Endangered);
 - *Trifolium reflexum* (Threatened);
 - *Triglochin maritima* (Threatened);
 - *Triglochin palustris* (Threatened);
 - *Trillium cernuum* (Endangered);
 - *Trillium erectum* (Endangered);
 - *Ulmus thomasii* (Endangered);
 - *Urticularia intermedia* (Threatened);
 - *Urticularia minor* (Endangered);
 - *Vaccinium corymbosum* (Endangered);
 - *Vaccinium macrocarpon* (Endangered);
 - *Viola blanda* (Endangered);
- EARLIER LISTS**
- *Adoxa moschatellina* (Endangered); possibly extirpated;
 - *Bergia texana* (NOT LISTED);
 - *Fragaria americana* (NOT LISTED); lots on cliff faces;
 - *Gymnocarium robertianum* (Endangered); possibly extirpated;
 - *Mirabilis hirsuta* (Endangered);
 - *Rosa acicularis* (Endangered); may be in another county;

