



ILLINOIS ENDANGERED SPECIES

PROTECTION BOARD

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Plant Endangered Species Technical Advisory Committee (ESTAC)

Approved Minutes— Southern Illinois Plant ESTAC Meeting

November 9, 2018 (10:35am-5:00pm)

Shawnee National Forest, Large Conference Room, Harrisburg, IL

ESTAC Members Present: Paul Marcum, Susanne Masi, Greg Spyreas, John Taft, Eric Ulaszek, John Wilker, Tim Bell, Beth Parker (Shimp), Chris Benda, and Bill McClain

ESTAC Members Absent: Randy Nyboer

Others Present: Jeremie Fant (IESPB), Janice Coons (IESPB), Jeannie Barnes (INHS), Kelly Neal (INPC), Gretel Kiefer (Plants of Concern, CBG), Jean Sellar (INPS), Eric Janssen (UIUC, INHS), Chris Evans (UIUC), Connie Carroll-Cunningham (INHS), Shannan Sharp (USFS), Sami Childerson (IDNR), Debbie Scott Newman (INPC)

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 August 24, 2018 for northern plant species were approved with one typo change.
- Criteria for Endangered vs Threatened: Need to have some discussion regarding guidelines for factors or criteria used to distinguish endangered vs. threatened listings.
- Welcome from Shawnee National Forest: Beth Parker (Shimp) and Brendan Cain (Shawnee Forest Supervisor) welcomed our group to their office.
- Considerations: Should consider not just the number of plants in a population, but also how large an area is covered.

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

- *Aesculus flava*; Found near border of Johnson and Pope Counties; See both red and yellow side by side; Found in limestone/sandstone mix.
- *Carex straminea*; Mike Murphy has information.
- *Coeloglossum viride (Dactylorhiza viridis)*;
- *Erythronium mesochoreum*; No decision yet.
- *Festuca paradoxa*; No decision yet.
- *Heteranthera multiflora*; No decision yet.
- *Ranunculus harveyi*; McClain will provide more information.
- *Saxifraga forbesii*; Rare, only west side of Shawnee.
- *Thalictrum pubescens*; Rare native species which is a new addition to Mohlenbrock.
- *Verbesina occidentalis*.

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

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

- a) *Carex intumescens* (Endangered)—Change to Threatened; 10 of 10; Benda will work on petition. This species has been found at four new locations.
- b) *Helianthus angustifolius* (Threatened)—Change to Endangered; 10 of 10; Ulaszek will work on petition. This species is found at some restorations in southern Illinois. Many restorations were started from same genotype source at the Dean Cemetery Site. This species is contained in seed mixes.
- c) *Ranunculus rhomboideus* (Threatened)—Change to Endangered; 9 of 9; Masi will work on petition.
- d) *Synandra hispidula* (Threatened)—Change to Endangered; 10 of 10; Benda will work on petition. Cave Valley used to have hundreds, but not found there recently. Only found in 8 populations, which doing well. Was considered for federal listing. Is a biennial so populations fluctuate greatly.

B) DELIST

- a) *Carex oxylepis* (Threatened)—Delist; 9 of 10 (1 abstain); Marcum will work on petition. Finding this species when not even searching for it. Found in lots of spots including degraded places and along trails including horse trails.
- b) *Melothria pendula* (Threatened)—Delist; 10 of 10; Benda will work on petition. Is a weed in south and southeast U.S. In Illinois only found in south, where new locations have been found in areas where sunlight.

C) NEW LISTING

- a) *Carex debilis*—Add to list as Endangered; 9 of 10 (1 abstain); Marcum will work on petition. Thought was extirpated until found by Phillippe.
- b) *Carex lupuliformis*—Add to list as Endangered; 10 of 10; Bell will work on petition with Mike Murphy. Oakwood Bottoms is the only collection in the south.
- c) *Dendrolycopodium hickeyi*—Add to list as Endangered; 10 of 10; Marcum will work on petition.
- d) *Monarda clinopodia*—Add to list as Threatened; 10 of 10; Marcum will work on petition. Need to list and to do more surveys.

D) DISCUSSION NEEDED

- a) *Carex prasina* (Threatened)—No decision yet.
- b) *Delphinium carolinianum* (Threatened)—No decision yet.
- c) *Epilobium strictum* (Threatened)—No decision yet.
- d) *Hypericum kalmianum* (Endangered)—No decision yet.
- e) *Scleria pauciflora* (Endangered)—No decision yet.
- f) *Silene regia* (Endangered)—No decision yet.
- g) *Stenanthium gramineum* (Threatened)—No decision yet.
- h) *Styrax americanum* (Threatened)—No decision yet.
- i) *Sullivantia sullivantii* (Threatened)—No decision yet.
- j) *Veronica scutellata* (Threatened)—No decision yet.

E) FIELD SEARCHES NEEDED

- a) *Asplenium resiliens* (Endangered)—Only one location at LaRue Pine Hills where was a few years ago, but gone from Otter Pond.
- b) *Carex atlantica* (Threatened)—In four seeps; found in 2005 & 2009.
- c) *Cyperus lancastricensis* (Threatened)—Found in 2009; may be more common now in ditches and

- d) *Heteranthera reniformis* (Endangered)—May be some problems with misidentification.
- e) *Heteranthera multiflora* (Not Listed)—Rare; Was gone for 100 years, but now back in mud flats where somewhat weedy.
- f) *Hexalectris spicata* (Endangered)—Plants only visible for 3-4 weeks; Finding new populations; Not all sites are protected; When visible, see everywhere; Grows in open woods downhill from prairies and glades; Number of plants can vary greatly year from year; Plants also seem to move to different spots; Lots not known about this species.
- g) *Isotria medeoloides* (Endangered)—In sites with no fire, plants become very shaded over; may need to survey more on cliffs.
- h) *Justicia ovata* (Endangered)—More surveys needed.
- i) *Lonicera flava* (Endangered)
- j) *Lycopodium clavatum* (Endangered)—Edgin found in 1994, but not since then.
- k) *Megalodonta (Bidens) beckii* (Endangered)—Seen in 2003, but unsure if more recently. Aquatic in lakes.
- l) *Melanthera nivea* (Endangered)—May be new records.
- m) *Ptilimnium nuttallii* (Endangered)—Found in wet ruts; was abundant in 2018.
- n) *Quercus phellos* (Threatened)—Number of sites may be declining; Planted in Champaign and in rest areas; Consider if native or planted.
- o) *Quercus texana* (Endangered)
- p) *Salvia azurea* (Threatened)—In limestone glades; Planted widely.
- q) *Scleria pauciflora* (Endangered)—Often disappears, but then returns from seed bank.
- r) *Torreyochloa pallida* (Endangered)—In swamps in southern Illinois.

F) TAXONOMIC CHANGES

- a) *Cimicifuga rubifolia*—Now *Actaea rubifolia*.
- b) *Lycopodium dendroideum*—Now *Dendrolycopodium dendroideum*.
- c) *Talinum calycinum*—Now *Phemeranthus calycinus*.
- d) *Talinum parviflorum*—Now *Phemeranthus parviflorus*.
- e) *Trichomanes boschianum*—Now *Vandenboschia boschiana*.

G) NO CHANGE RECOMMENDED

YELLOW LIST—Too few EOs to warrant change

- *Asplenium resiliens* (Endangered);
- *Astragalus crassicaerpus* var. *trichocalyx* (Endangered);
- *Bartonia paniculata* (Endangered);
- *Berchemia scandens* (Endangered);
- *Bouteloua gracilis* (Endangered);
- *Bumelia lanuginosa* (Endangered);
- *Calamagrostis insperata* (Endangered);
- *Carex alata* (Endangered);
- *Carex atlantica* (Threatened);
- *Carex reniformis* (Endangered);
- *Chimaphila maculata* (Endangered);
- *Cladrastis lutea* (Endangered);
- *Clematis viorna* (Endangered);
- *Corydalis halei* (Endangered);
- *Cynosciadium digitatum* (Endangered);
- *Cyperus lancastricensis* (Threatened);
- *Dichanthelium jorii* (Endangered);
- *Dichanthelium ravenelii* (Endangered);
- *Dryopteris celsa* (Endangered);
- *Eupatorium hyssopifolium* (Endangered);
- *Euphorbia spathulata* (Endangered);
- *Galactia mohlenbrockii* (Endangered);
- *Galium virgatum* (Endangered);
- *Halesia carolina* (Endangered);
- *Heliotropium tenelium* (Endangered);
- *Heteranthera reniformis* (Endangered);
- *Hydrolea uniflora* (Endangered);
- *Isotria verticillata* (Endangered);
- *Lonicera dioica* var. *glaucescens* (Endangered);
- *Lycopodium clavatum* (Endangered);
- *Lysimachia radicans* (Endangered);

- *Malus angustifolia* (Endangered);
- *Megalodonta beckii* (Endangered);
- *Melanthera nivea* (Endangered);
- *Nemophila triloba* (Endangered);
- *Platanthera ciliaris* (Endangered);
- *Ptilimnium nuttallii* (Endangered);
- *Quercus texana* (Endangered);
- *Rhynchospora glomerata* (Endangered);
- *Sagittaria australis* (Endangered);
- *Sanicula smallii* (Endangered);
- *Saxifraga virginiana* (Endangered);
- *Schoenoplectus purshianus* (Endangered);
- *Silene ovata* (Endangered);
- *Styrax grandifolius* (Endangered);
- *Talinum (Phemeranthus) calycinus* (Endangered);
- *Thelypteris noveboracensis* (Endangered);
- *Tilia heterophylla* (Endangered);
- *Torreyochloa pallida* (Endangered);
- *Vaccinium stamineum* (Endangered);

RED LIST—Not seen in 20 years

- *Justicia ovata* (Endangered);

BLUE LIST—Federally listed species

- *Isotria medeoloides* (Endangered);

WHITE LIST--

- *Amorpha nitens* (Endangered);
- *Asplenium bradleyi* (Endangered);
- *Astragalus distortus* (Endangered);
- *Botrychium biternatum* (Endangered);
- *Buchnera americana* (Threatened);
- *Carex arkansana* (Endangered);
- *Carex bromoides* (Threatened);
- *Carex decomposita* (Endangered);
- *Carex gigantea* (Endangered);
- *Carex nigromarginata* (Endangered);
- *Carex physorhyncha* (Endangered);
- *Carex willdenowii* (Threatened);
- *Carya aquatica* (Threatened);
- *Carya pallida* (Endangered);
- *Chamaelirium luteum* (Endangered);
- *Cimicifuga (Actaea) rubifolia* (Endangered);

- *Clematis crispa* (Endangered);
- *Dennstaedtia punctilobula* (Endangered);
- *Dichanthelium yadkinense* (Endangered);
- *Dodecatheon frenchii* (Threatened);
- *Draba cuneifolia* (Endangered);
- *Eryngium prostratum* (Endangered);
- *Euonymus americanus* (Threatened);
- *Glyceria arkansana* (Endangered);
- *Hexalectris spicata* (Endangered);
- *Huperzia porophila* (Threatened);
- *Iresine rhizomatosa* (Endangered);
- *Lonicera flava* (Endangered);
- *Matelea decipiens* (Endangered);
- *Melica mutica* (Endangered);
- *Mentzelia oligosperma* (Endangered);
- *Oxalis illinoensis* (Threatened);
- *Penstemon tubaeiflorus* (Endangered);
- *Phaeophyscia leana* (Threatened);
- *Pinus echinata* (Endangered);
- *Planera aquatica* (Threatened);
- *Plantago cordata* (Endangered);
- *Platanthera flava* (Threatened);
- *Poa alsodes* (Endangered);
- *Quercus montana* (Threatened);
- *Quercus phellos* (Threatened);
- *Rhexia mariana* (Endangered);
- *Rudbeckia missouriensis* (Threatened);
- *Sabatia campestris* (Endangered);
- *Salvia azurea* (Threatened);
- *Scleria pauciflora* (Endangered);
- *Sedum telephioides* (Threatened);
- *Spiranthes vernalis* (Endangered);
- *Stellaria pubera* (Endangered);
- *Stenanthium gramineum* (Threatened);
- *Styrax americana* (Threatened);
- *Talinum (Phemeranthus) parviflorus* (Threatened);
- *Trichomanes (Vandenboschia) boschiana* (Endangered);
- *Trillium viride* (Endangered);
- *Urtica chamaedryoides* (Threatened);

