MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 26, 2017
Time: 1:00 – 5:00 P.M.
Location: Doyle Conner Building, Auditorium
1911 SW 34th Street, Gainesville Florida 32608

Council Members Present:
Mr. Richard L. Moyroud, Chair – Florida Native Plant Society
Dr. Loran C. Anderson, Vice-Chair – Florida State University Botanist
Dr. Jack Stout – Florida Committee for Rare and Endangered Plants and Animals
Dr. Suzanne Koptur – Florida International University Botanist
Mrs. Tina Tuttle – Florida Federation of Garden Clubs
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association
Mr. Bryan K. Benson, Secretary – FDACS/Division of Plant Industry

Members Absent:
Mr. Charles D. Daniel, III – Florida Forestry Association

Others Present:
Ms. Cheryl Peterson – Bok Tower Gardens
Dr. Eric S. Menges – Archbold Biological Station
Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Mr. Steve W. Woodmansee – Key West Botanical Garden
Mr. Jimmy Lange – Fairchild Tropical Botanical Garden
Ms. Jennifer Possley – Fairchild Tropical Botanical Garden
Mr. Houston Snead – Jacksonville Zoo and Gardens
Dr. Patti Anderson – FDACS/Division of Plant Industry

Richard Moyroud opened the meeting by welcoming the council members and other interested parties. A quorum of council members was present.

Introductions were made of all present.

Richard Moyroud requested council members review the proposed agenda. A request was made to add a discussion of the “State of New England’s Native Plants” publication to Friday’s agenda. An additional request was made to add the Florida Wildflower Foundation bookmark printing discussion to Friday’s agenda. Suzanne Koptur made a motion to accept the agenda. The motion was seconded by Loran Anderson. Motion passed. These topics were added to the agenda.

Richard Moyroud asked council members if there were any questions or suggested changes to the minutes from the 2016 EPAC meeting Loran Anderson made a motion to accept the minutes from the last meeting. The motion was seconded by Suzanne Koptur. Motion passed.

A total of four Endangered and Threatened Native Flora Conservation Grant Applications were received this year for consideration. All four were received timely, and all met the minimum eligibility requirements for consideration. All were assigned an application number. A copy of each application was forwarded to council members for review prior to this meeting. The four applications were evaluated and ranked by council members.
The opportunity for grant applicants and past grant recipients to describe their ongoing and future conservation activities was offered to those present.

**Fairchild Tropical Botanical Garden**
Jimmy Lange and Jennifer Possley presented details outlining the Garden’s conservation efforts and the past year’s programs, as well as ongoing activities and future plans. The council was given the opportunity to ask questions regarding the past year or the current application. A copy of the 2016-2017 Final Report was provided to EPAC members.

**Key West Botanical Garden Society**
Steve Woodmansee presented details on conservation efforts and the past year’s programs, as well as updates about ongoing and future programs. The council was given the opportunity to ask questions regarding the past year or the current application.

**Bok Tower Gardens**
Cheryl Peterson presented details outlining conservation efforts and the past year’s programs, as well as updates about ongoing and future programs. The council was given the opportunity to ask questions regarding the past year or the current application. A copy of the 2016-2017 Final Report was provided to EPAC members.

**Archbold Biological Station**
Eric Menges presented details outlining conservation efforts and the past year’s programs, as well as ongoing and future efforts. The council was given the opportunity to ask questions regarding the past year or the current application.

Following the presentations, council members submitted grant application evaluation forms for all applications considered. Calculations were totaled and explained.

Discussion by council regarding the Key West application budget including $37,788 for Nursery Operations and Upgrades. *Suzanne Koptur made a motion to subtract this amount as infrastructure. The motion was seconded by Loran Anderson. Motion passed.*

A summary of the anticipated grant allocation is provided in the table below:

<table>
<thead>
<tr>
<th>Grant Amount Requested</th>
<th>Total Funds Recommended for Fiscal Year 2018-2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archbold Biological Station</td>
<td>$100,000.00</td>
</tr>
<tr>
<td>Fairchild Tropical Botanical Garden</td>
<td>$100,000.00</td>
</tr>
<tr>
<td>Bok Tower Gardens</td>
<td>$100,000.00</td>
</tr>
<tr>
<td>Key West Botanical Garden</td>
<td>$22,950.00</td>
</tr>
<tr>
<td>Totals</td>
<td>$322,950.00</td>
</tr>
</tbody>
</table>

*Loran Anderson made a motion to use the percentage based ranking as used in past years. Suzanne Koptur seconded. Motion passed.*

*David Drylie made a motion to adjourn. Richard Moyroud seconded. Motion passed.*
THE MEETING ADJOURNED FOR THE DAY
MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 27, 2017
Time: 8:00 – 11:00 A.M.
Location: Doyle Conner Building, Auditorium
1911 SW 34th Street, Gainesville Florida 32608

Council Members Present:
Mr. Richard L. Moyroud, Chair – Florida Native Plant Society
Dr. Loran C. Anderson, Vice-Chair – Florida State University Botanist
Dr. Jack Stout – Florida Committee for Rare and Endangered Plants and Animals
Dr. Suzanne Koptur – Florida International University Botanist
Mrs. Tina Tuttle – Florida Federation of Garden Clubs
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association
Mr. Bryan K. Benson, Secretary – FDACS/Division of Plant Industry

Members Absent:
Mr. Charles D. Daniel, III – Florida Forestry Association

Others Present:
Dr. Eric S. Menges – Archbold Biological Station
Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Mr. Jimmy Lange – Fairchild Tropical Botanical Garden
Mr. Houston Snead – Jacksonville Zoo and Gardens
Dr. Patti Anderson – FDACS/Division of Plant Industry
Ms. Lisa Hassell – FDACS/Division of Plant Industry

Richard Moyroud opened the meeting by welcoming the council members and other interested
parties. Introductions were made by all present.

Four Year Interval Review of Regulated Plant Index
Each plant listed on the regulated plant index is required to be reviewed by the council every
four years. This year the list included 19 plants that were last reviewed in 2013. All plants listed
below were reviewed and comments updates and changes are outlined below the following the
table of plants being reviewed.

<table>
<thead>
<tr>
<th>ID</th>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>113</td>
<td>Carex chapmanii</td>
<td>Chapman's sedge</td>
<td>Moved to threatened list in 2006</td>
</tr>
<tr>
<td>1525</td>
<td>Chrysopsis highlandsensis</td>
<td>Highlands golden-aster</td>
<td>Added 2007</td>
</tr>
<tr>
<td>206</td>
<td>Dicerandra frutescens</td>
<td>Lloyd's mint</td>
<td></td>
</tr>
<tr>
<td>217</td>
<td>Drosera intermedia</td>
<td>water sundew</td>
<td></td>
</tr>
<tr>
<td>271</td>
<td>Garberia heterophylla</td>
<td>garberia</td>
<td></td>
</tr>
<tr>
<td>758</td>
<td>Geranium maculatum</td>
<td>wild geranium</td>
<td>Added 2009</td>
</tr>
<tr>
<td>293</td>
<td>Helianthus carnosus</td>
<td>flatwoods sunflower</td>
<td>Added 2005</td>
</tr>
<tr>
<td>342</td>
<td>Kalmia latifolia</td>
<td>mountain laurel</td>
<td></td>
</tr>
<tr>
<td>759</td>
<td>Orbexilum virgatum</td>
<td>pineland scurfpea</td>
<td>Added 2009</td>
</tr>
<tr>
<td>464</td>
<td>Paronychia chartacea</td>
<td>papery whitlow-wort</td>
<td></td>
</tr>
</tbody>
</table>
The following plants were discussed and/or edited as listed below:

- #217 *Drosera intermedia*, water sundew: one new population identified. Does not change raking score or status.
- #271 *Garberia heterophylla*, garberia: made change to Occurrences from 2 (21-100 occurrences) to 3 (101 or more occurrences). Does not change protection status.
- #1533 *Xyris panacea*, St. Marks yellow-eyed grass: change Special Concern from 0 to -1. Does not change protection status.

**David Drylie made a motion to accept proposed changes for the 4-year review plant list. Loran Anderson seconded. Motion passed.**

Dr. Patti Anderson, Division of Plant Industry (DPI) Botanist, presented a discussion about differences in plant names. At DPI we get asked a lot of questions about plants; differences in names can have regulatory consequences and confuse people. Patti provided examples of name issues to discuss including species name changes, varieties or subspecies, misidentified or non-native, and spelling corrections.

A list of plants provided by the Florida Natural Areas Inventory (FNAI) that illustrate some of these taxonomic questions was provided to guide the discussion.

The following plants were discussed:

- *Agave neglecta* – skip for now; review next year with request to *Agave* expert, George Rogers, for written comments
- *Campyloneurum latum* – more advice needed
- *Harrisella filiformis* – change to *Harrisella porrecta*
- *Leochilus labiatus* – need more information; information received. This was the hoax reported by Jimmy Lang in email. Remove from endangered; never existed in Florida.
- *Marsilea ancylopoda* – leave as is
- *Spermacoce terminalis* – change to *S. neoterminalis* AND add synonym language to regulated plant index
- *Stachys tenuifolia* – change species to *S. aspera*
Xyris chapmanii – change to include this species in Xyris scabrifolia (threatened); remove from endangered
Zigadenus leimanthoides – skip for now; request input from Wendy Zomleffer, University of Georgia, for regular 4-year review
Zamia spp. – OK as is
Cerus robinii – Change to Pilosocereus robinii
Pilosocereus bahamensis – change species to P. polygonus

A consensus was reached that plants never found in Florida and listed in error should be removed from the list; plants that appear to be extirpated should remain on the list in the event that new populations are found.

Suzanne Koptur made a motion to accept taxonomic changes and corrections listed above. Loran Anderson seconded. Motion passed.

DPI will propose updates to Rule-Chapter 5B-40 to allow for regulatory actions and permits to be applicable to plant synonyms of listed plants. This language update will be proposed for all plants regulated as endangered, threatened or commercially exploited. In addition, DPI will propose to edit the definition of NATIVE PLANT to be “a plant taxon…” The question was also asked if we could remove the #’s assigned to the regulated plant lists. This question will be addressed during the next rule review and update. Should we include the new language of the definition to be included in 5B-40? (See below.)

**5B-40.001 Definitions.**

(1) For the purpose of this rule chapter, the definitions in Sections 581.011 and 581.185(2), F.S., and the following definitions shall apply:

(a) Commercially exploited plant list. Plant taxa designated (or any synonym of a designated taxon) in paragraph 5B-40.0055(1)(c), F.A.C., as commercially exploited.

(g) Endangered Native Flora. A plant taxon listed (or any synonym of the listed taxon) on the Endangered Plant List of the Regulated Plant Index designated in paragraph 5B-40.0055(1)(a), F.A.C.

(h) Endangered Plant List. Plant taxa and their synonyms designated in paragraph 5B-40.0055(1)(a), F.A.C., as endangered.

(m) Native Plant. A plant taxon that is presumed to have been present in Florida before European contact.

(p) Threatened Native Flora. A plant taxon listed (or any synonym of the listed taxon) on the Threatened Plant List of the Regulated Plant Index designated in paragraph 5B-40.0055(1)(b), F.A.C.

**B-40.0055 Regulated Plant Index.**

(1) All plant taxa (and any synonyms of these plant names) listed on the Endangered Plant List, the Threatened Plant List, and the Commercially Exploited Plant List as set forth herein are referred to as regulated.

**The following plants were proposed for listing last year and reviewed by the council for confirmation this year:**

Platanthera chapmanii (Chapman’s fringed orchid)
A = 1.0
B = 1.0
C = 1.0
A follow up presentation was given by Houston Snead of Jacksonville Zoo and Gardens and Lisa Hassell of the Division of Plant Industry on the Chapman’s fringed orchid. They described activities conducted for survey and conservation of this plant in North Florida. All additional information supported the listing and confirmation of this plant as endangered. Information provided also allowed the committee to update the abundance score from 0.5 to 1. This change is had no change to the recommended protection status.

**Loran Anderson made a motion to accept proposal to list Platanthera chapmanii as endangered. David Drylie seconded. Motion passed.**

**The following plants were proposed for delisting this year as non-native to be reviewed by the council for confirmation next year:**

- Stachys crenata (shade betony)
  - A = 0.5
  - B = 0.5
  - C = 0.5
  - D = 1.0
  - E = 1.0
  - F =

  **3.5 – Endangered**

Discussion on *Eriogonum floridanum*, scrub buckwheat. This plant is federally listed as threatened and state listed as threatened instead of endangered. Last year the council agreed to move this plant from threatened to endangered but the rule was not updated. Rule 5B-40 will be corrected to include this plant as endangered instead of threatened.

5B-40 was updated: It is # 150 on the Endangered list. The issue was whether we could list varieties because the variety is what is endangered here. The council agreed that “plant” could refer to a species or variety, but then wanted to change the definition from plant to plant taxon to make it clear that any level of plant name could be listed. Therefore, we should change the list from *Eriogonum floridanum* – scrub buckwheat to *Eriogonum longifolium* var. *gnaphalifolium* -- scrub buckwheat and eliminate the need for the name in parentheses in 5B-40.0055 (2) (b) Those plants listed as threatened under Section 4 …

150. *Eriogonum floridanum* – scrub buckwheat [current name on endangered list]

4. *Eriogonum longifolium* var. *gnaphalifolium* (*Eriogonum floridanum*) – scrub buckwheat [current entry in (2) (b)]
As a follow-up to last year’s discussion of *Agave neglecta* as not being native, we planned a conference call to Dr. George Rogers for an update. We were unable to successfully make contact and will postpone the discussion until next year. We will request a written opinion from Dr. George Rogers.

Tina Tuttle reached out to the Florida Wildflower Foundation to inquire about getting endangered plants included in public outreach projects. The project was accepted and funding may be available. To formulate a strategic plan, the questions were asked: What is our call to action? What is our mission statement? What do we want to do? How many do we need printed?

The council agreed that this is a project worth supporting and feel that 1500 bookmarks would be a great start.

Richard Moyroud presented the council with copies of the publication “State of New England’s Native Plants” prepared by the New England Wild Flower Society. The publication provides information on five New England habitats, many rare species, primary threats and recommendations for conservation. The question was asked if DPI or FNAI would be able to produce a similar publication for Florida. This publication will be passed along to FNAI to see if there is an opportunity.

Jack Stout lead a discussion on the scrub titi (*Cyrilla arida*). Jack will work on a proposal to present to the council next year.

Jack also lead the council in a discussion about endangered and threatened plants being rescued from areas being developed. The criticism is that rescued plants can be relocated to areas that were not necessarily native habitat creating problems and confusion many years later. The council recognized the potential for this but agreed the rule helps protect endangered and threatened plants in spite of these problems.

**Election of Officers**

*Suzanne Koptur made a motion to maintain the current officers (Mr. Richard Moyroud, Chair, and Dr. Loran Anderson, Vice Chair). David Drylie seconded. Motion passed.*

**Schedule Next Meeting**

The next annual EPAC meeting in Gainesville will be scheduled for **October 25 & 26, 2018**.

*A motion was made to adjourn by Tina Tuttle. Motion was seconded by Loran Anderson. Motion passed.*

**THE MEETING ADJOURNED**

Richard Moyroud, Chair