

MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 24, 2019

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
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association
Mr. Charles D. Daniel, III – Florida Forestry Association
Mr. Jason D. Stanley, Secretary – FDACS/Division of Plant Industry

Members Absent:

Ms. Jane Villa-Lobos – Florida Federation of Garden Clubs

Others Present:

Ms. Cheryl Peterson – Bok Tower Gardens
Dr. Eric Menges – Archbold Biological Station
Ms. Jennifer Possley – Fairchild Tropical Botanical Garden
Mr. Steve W. Woodmansee – Key West Botanical Garden
Dr. Patti Anderson – FDACS/Division of Plant Industry
Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Mr. Houston Snead – Jacksonville Zoo and Gardens
Mr. Bryan Benson - FDACS/Division of Plant Industry
Mr. Alex de la Paz – FDACS/Division of Plant Industry
Mr. Scott Ward – Archbold Biological Station
Mr. Chad Washburn – Naples Botanical Garden

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 to add one item to the agenda. The request was for an update for the council regarding the *Serenoa repens* permitting process. ***Jason Stanley agreed to update the council on the next day October 25th.***

Richard Moyroud requested council members review the proposed agenda. ***Suzanne Koptur made a motion to accept the agenda. The motion was seconded by Loran Anderson. Motion passed.***

Richard Moyroud asked council members if there were any questions or suggested changes to the minutes from the 2018 EPAC meeting ***Loran Anderson noticed a misspelling on page 10 from Wherreyi to Wherryi. The change was noted and accepted. 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.

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. A copy of the 2018-2019 Final Report was provided to EPAC members.

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 2018-2019 Final Report was provided to EPAC members.

Fairchild Tropical Botanical Garden

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 2018-2019 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.

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

Jason Stanley explained to the council members that the funding for the Land Acquisition Trust Fund had been reduced from \$240,000 to \$216,000 for the FY 2019-2020.

A summary of the anticipated grant allocation is provided in the table below representing the prior year's total of \$240,000 and the \$216,000 reduced rate for reference in case it is reduced again in FY 20-21:

	<u>Grant Amount Requested</u>	<u>Total Funds Recommended for Fiscal Year 2020-2021</u>	
Archbold Biological Station	\$100,000.00	\$65,690.74	\$72,989.71
Fairchild Tropical Botanical Garden	\$100,000.00	\$64,296.03	\$71,440.03
Bok Tower Gardens	\$100,000.00	\$63,040.79	\$70,045.32
<u>Key West Botanical Garden</u>	<u>\$50,900.00</u>	<u>\$25,694.10</u>	<u>\$25,524.93</u>
Totals	\$322,950.00	\$216,000.00	\$240,000.00

Richard Moyroud made a motion to adjourn. David Drylie seconded. Motion passed.

THE MEETING ADJOURNED FOR THE DAY

MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 25, 2019
Time: 8:00 – 12:00 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
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association
Mr. Charles D. Daniel, III – Florida Forestry Association
Mr. Jason D. Stanley, Secretary – FDACS/Division of Plant Industry

Members Absent:

Ms. Jane Villa-Lobos – Florida Federation of Garden Clubs

Others Present:

Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Ms. Jennifer Possley – Fairchild Tropical Botanical Garden
Mr. Scott Ward – Archbold Biological Station
Mr. Chad Washburn – Naples Botanical Garden
Mr. Houston Snead – Jacksonville Zoo and Gardens
Dr. Patti Anderson – FDACS/Division of Plant Industry
Mr. Alex de la Paz – 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

The Endangered Plant Advisory Council is required to review each plant listed on the regulated plant index at least once every four years. This year, the list included 29 plants that were last reviewed in 2015. All plants listed in the table below were reviewed. Comments, updates and changes to these plants are included after the table.

33	<i>Argusia gnaphalodes</i>	sea lavender
144	<i>Chrysopsis cruiseana</i>	Cruise's golden-aster
145	Chrysopsis floridana	Florida's golden-aster
174	<i>Croomia pauciflora</i>	croomia
205	Dicerandra cornutissima	Robin's mint
207	Dicerandra immaculata	Olga's mint
243	<i>Eriocaulon nigrobracteatum</i>	dark-headed hatpins
276	<i>Gossypium hirsutum</i>	wild cotton
292	<i>Hasteola robertiorum</i>	Gulf indian-plantain
336	<i>Jacquinia keyensis</i>	joewood
357	<i>Lepuropetalon spathulatum</i>	little people

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373	<i>Litsea aestivalis</i>	pond-spice
404	<i>Manilkara jaimiqui</i>	wild dilly
406	<i>Marshallia ramosa</i>	Barbara's buttons
407	<i>Marsilea ancylopoda</i>	water-clover
452	<i>Opuntia corallicola</i>	semaphore cactus
512	<i>Pleopeltis astrolepis</i>	star-scaled fern
580	<i>Rudbeckia triloba</i>	browneyed Susan
604	<i>Schizachyrium sericatum</i>	silky bluestem
622	<i>Silene polypetala</i>	fringed pink
630	<i>Spigelia gentianoides</i>	gentian pinkroot
678	<i>Thrinax morrisii</i>	brittle thatch palm
683	<i>Tillandsia flexuosa</i>	twist & banded air plant
706	<i>Tropidia polystachya</i>	young-palm orchid
1527	<i>Ranunculus laxicaulis</i>	Buttercup
1528	<i>Silene regia</i>	Royal Catchfly
1530	<i>Cleistes bifaria</i>	upland spreading pogonia
1535	<i>Warea cuneifolia</i>	Carolina pineland cress
1536	<i>Plantago rugelii</i>	Rugel's plantain

Loran Anderson explained the ranking system and the numerical value between endangered and threatened. There was a brief discussion about the ranking system.

The following plants from the above list were discussed and/or edited as listed below.

- #1530 *Cleistes bifaria*, upland spreading pogonia. Loran Anderson mentioned that this plant is in 22 counties and suggested changing the ranking of category C from 1 to 3. This would change the total to 10 changing the protection status to threatened.
- # 580 *Rudbeckia triloba*, browneyed Susan. Loran Anderson said that this plant has become almost weedy in certain areas. He suggested that the ranking on category 3 should change from 1 to 3. This changes the total from 5.5 to 7.5. This does not change the protection status.
- Charles Daniel asked the committee, particularly Loran Anderson if there may be changes in the future to rankings due to the devastation caused by Hurricane Michael. Loran Anderson responded that most of the understory is gone in timber areas and that anything that was rare near Interstate 10 may no longer be there.
- Loran Anderson noted that one critical area in those affected by the Hurricane Michael is Rock Hill near Chipley. He mentioned that #630 *Spigelia gentianoides* has good populations at Rock Hill. Did not change protection status.
- #406 *Marshallia ramosa*, Barbara's buttons. Occurs only on Rock Hill in the state according to Loran Anderson. Michael Jenkins mentioned that there will be a survey in that area and where Hurricane Michael occurred. The survey will be funded by FNAI. Did not change protection status.

- #207 *Dicerandra immaculata*, Olga's mint. Cheryl Peterson submitted a table from her USFWS SSA publication to Richard Moyroud to discuss with committee. The form provided information on 5 natural populations and 2 introduced populations. The committee decided that the numbers will not change but it will go on record. Richard Moyroud noted that introduced populations in Hobe Sound did not do well after establishment. Did not change protection status.
- #512 *Pleopeltis astrolepis* star-scaled fern. Richard Moyroud discussed that it had been seen only in Broward County where a site had been destroyed. Jennifer Possley noted that she had found it on a tree island in 2017. Did not change protection status.

A discussion was initiated by David Drylie regarding management plans of endangered and threatened plants. Houston Snead noted that most management plans are focused mainly on wildlife with plants being included only if in relation to the wildlife being managed and protected. Jack Stout mentioned that in some areas where re-introduction of endangered and threatened species are being conducted, the plants are not being managed and taken care of properly after the fact and in some cases ignored.

Houston Snead noted that it is good to receive a list of the 4-year review plants early in the year (as we did this year). This allows interested parties to discuss plants with upcoming reviews. to discuss at various meetings to better understand on who may be working with plants on the list.

- #243 *Eriocaulon nigrobacteatum* dark-headed hatpins. Scott Ward mentioned that extensive logging had taken place in areas where this plant occurs. He only found one site in which this plant is occurring during his surveys. Loran Anderson noted that in certain areas this plant is still abundant. Richard Moyroud suggested waiting to further discuss after the FNAI survey. Did not change protection status.
- #452 *Opuntia corallicola*, semaphore cactus. Richard Moyroud asked Jennifer Possley if Fairchild Tropical Botanical Garden would be looking at this plant for future work. Jennifer mentioned that it is easy to propagate, and they are doing so. Did not change protection status.
- #706 *Tropodia polystacha*, young-palm orchid. Jennifer Possley stated that there are 3 plants known in North America. Seed pods were collected but no new plants were produced. Did not change protection status.

Richard Moyroud suggested a final review of proposed changes and motioned to pass for acceptance. Loran Anderson seconded the motion. Motion passed.

The following plants were proposed last year for listing and reviewed for confirmation by the council. All were confirmed with one change as follows.

Asplenium abscissum (cutleaf spleenwort). **Confirmed by council.**

A = 1.0
B = 0.5
C = 1.0
D = 3.0
E = 2.0
F = -0.5

7.0 – Endangered

Ceratophyllum australe (prickly hornwort). **Confirmed with change to Column E from 1 to 0.5.**

Does not change status.

A = 0.5
B = 0.5
C = 1.0
D = 2.0
E = 0.5
F = -1.0

3.5 – Endangered

Dicerandra modesta (blushing scrub balm.) **Confirmed by council.**

A = 0.5
B = 0.5
C = 0.5
D = 1.0
E = 2.0
F = -1.0

3.5 – Endangered

Thelypteris sancta (Caribbean maiden fern). **Confirmed by council.**

A = 0.5
B = 0.5
C = 0.5
D = 1.0
E = 1.0
F = 0.0

3.5 – Endangered

Sarracenia rubra (Red flowered pitcher plant). **Confirmed by council.**

A = 3.0
B = 3.0
C = 1.0
D = 3.0
E = 2.0
F = 0.0

12.0 – Threatened

Sarracenia rubra wherryi (Wherry's red flowered pitcher plant). **Confirmed by council.**

$$\begin{array}{rcl} A = & 0.5 \\ B = & 1.0 \\ C = & 1.0 \\ D = & 0.0 \\ E = & 1.0 \\ F = & -1.0 \\ \hline & 2.5 - \text{Endangered} \end{array}$$

The following plants were submitted for review this year with ranking sheets. These plants were discussed by the committee and will be reviewed next year for possible confirmation.

Lobelia apalachicolaensis (Apalachicola lobelia.)

$$\begin{array}{rcl} A = & 1.0 \\ B = & 1.0 \\ C = & 0.5 \\ D = & 3.0 \\ E = & 3.0 \\ F = & -1.0 \\ \hline & 6.5 - \text{Endangered} \end{array}$$

Goniopteris moranii (Guadalupe maiden fern).

$$\begin{array}{rcl} A = & 0.5 \\ B = & 0.5 \\ C = & 0.5 \\ D = & 1.0 \\ E = & 2.0 \\ F = & 0.0 \\ \hline & 4.5 - \text{Endangered} \end{array}$$

Xyris correlliorum (Correll's yellow eyed grass).

$$\begin{array}{rcl} A = & 0.5 \\ B = & 1.0 \\ C = & 0.5 \\ D = & 1.0 \\ E = & 2.0 \\ F = & -1.0 \\ \hline & 3.0 - \text{Endangered} \end{array}$$

***A motion to accept proposals was made by Loran Anderson and seconded by David Drylie.
Motion Passed***

Richard Moyroud asked Jason Stanley to give an update on the second year of the *Serenoa repens*, (saw palmetto berry) permit process. Jason mentioned that the process for the second year was a lot smoother due to the use of Sharepoint for moving applications through the review

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process. In addition, the use of this program allowed Ag Law officers the ability to access permits to determine who was in proper compliance. FDACS-DPI. Received and processed roughly 2400 permits in 2019.

Election of Officers

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

Jack Stout began a discussion regarding the publication of literature and new botanical volumes of the Florida Committee on Rare and Endangered Plants and Animals. He stated that there has not been a new volume on plants for several years. In addition, he mentioned that he had boxes of files in his office that were those of Kathy Burks and that somehow, they should be preserved and could contribute to FCREPA.

The next annual EPAC meeting in Gainesville will be scheduled for **October 22 & 23, 2020.**

A motion was made to adjourn by Loran Anderson. Motion was seconded by Jack Stout. Motion passed.

THE MEETING ADJOURNED

Richard Moyroud, Chair