EXHIBIT 3.B.

Correspondence and Materials from Interested Parties Received Directly by Planning Council Staff Subsequent to the January 23, 2020 Planning Council Meeting

- Exhibit A Email correspondence and materials from Winston Grace dated February 3, 2020, received February 3, 2020 Opposed
- Exhibit B Email correspondence from Michael Coard dated February 7, 2020, received February 7, 2020 Support
- Exhibit C Email correspondence from Christopher Coard dated February 7, 2020, received February 7, 2020 Support
- Exhibit D Email correspondence from Joe Burciaga dated February 8, 2020, received February 10, 2020 Support
- Exhibit E Email correspondence from Carol Burciaga dated February 8, 2020, received February 10, 2020 Support
- Exhibit F Email correspondence from Maryelle and Ed Brown dated February 8, 2020, received February 10, 2020 Support
- Exhibit G Email correspondence from Bonnie Schultz dated February 10, 2020, received February 10, 2020 Support
- Exhibit H Email correspondence from Lizbeth Cruz dated February 10, 2020, received February 11, 2020 Support
- Exhibit I Email correspondence from Tonne Samuels dated February 11, 2020, received February 11, 2020 Support
- Exhibit J Email correspondence from Tyrone Philpart dated February 11, 2020, received February 11, 2020 Support
- Exhibit K Email correspondence from Tracey Colon dated February 11, 2020, received February 12, 2020 Support
- Exhibit L Email correspondence from Alan Wise dated February 12, 2020, received February 12, 2020 Support
- Exhibit M Email correspondence from Sara Jane Rose dated February 14, 2020, received February 14, 2020 Support
- Exhibit N Email correspondence from Cecelia Kleinrichert dated February 15, 2020, received February 18, 2020 Support
- Exhibit O Email correspondence from Kevin Borwick dated February 15, 2020, received February 18, 2020 Support
- Exhibit P Email correspondence from Vashita Jadoolelel dated February 17, 2020, received February 18, 2020 Support
- Exhibit Q Email correspondence from Sterling Griggs dated February 17, 2020, received February 18, 2020 Support

- Exhibit R Email correspondence from Wallace Griggs dated February 17, 2020, received February 18, 2020 Support
- Exhibit S Email correspondence from Sandra Coronel dated February 18, 2020, received February 18, 2020 Support
- Exhibit T Email correspondence from Karen Malkoff dated February 20, 2020, received February 20, 2020 Support
- Exhibit U Email correspondence from Justin Bryant dated February 20, 2020, received February 20, 2020 Support
- Exhibit V Email correspondence from Joanne Henry dated February 20, 2020, received February 20, 2020 Support
- Exhibit W Email correspondence from John Henry dated February 20, 2020, received February 20, 2020 Support
- Exhibit X Email correspondence from Jeffrey Reid dated February 22, 2020, received February 24, 2020 Support
- Exhibit Y Email correspondence from Debra Gonzalez dated February 24, 2020, received February 24, 2020 Support
- Exhibit Z Email correspondence from Pablo Di Benedetto dated February 24, 2020, received February 24, 2020 Support
- Exhibit AA Email correspondence from Patricia Fox dated February 25, 2020, received February 25, 2020 Support
- Exhibit BB Email correspondence from Phillip Syphers dated February 26, 2020, received February 26, 2020 Support
- Exhibit CC Email correspondence from Sara Jane Rose dated February 29, 2020, received March 2, 2020 Support
- Exhibit DD Email correspondence from Ronald Coles dated February 27, 2020, received March 2, 2020 Opposed
- Exhibit EE Email correspondence from Barry and Shirley Bleidt dated March 2, 2020, received March 2, 2020 Support
- Exhibit FF Email correspondence from Carlton and Jennifer Anglin dated March 3, 2020, received March 3, 2020 Support
- Exhibit GG Email correspondence from Heima Maharaj dated March 6, 2020, received March 6, 2020 Support
- Exhibit HH Email correspondence from Vashita Jadoonanan dated March 10, 2020, received March 10, 2020 Support
- Exhibit II Email correspondence from Gail Jones dated March 14, 2020, received March 17, 2020 Support
- Exhibit JJ Email correspondence from Michael Coard dated March 14, 2020, received March 17, 2020 Support
- Exhibit KK Email correspondence from Debra Quinton dated March 14, 2020, received March 17, 2020 Support
- Exhibit LL Email correspondence from Karen Malkoff dated March 14, 2020, received March 17, 2020 Support

- Exhibit MM Email correspondence from Julie Negovan dated June 8, 2020, received June 8, 2020 Support
- Exhibit NN Email correspondence from Demetria Jackson Rawls dated June 24, 2020, received June 24, 2020 Opposed
- Exhibit OO Correspondence from Ronald Coles dated June 16, 2020, received July 13, 2020 Opposed
- Exhibit PP Correspondence from Christopher Coard dated July 23, 2020, received July 24, 2020 Support
- Exhibit QQ Correspondence from Oona Davis dated July 23, 2020, received July 24, 2020 Support
- Exhibit RR Correspondence from Cecilia Kleinrichert dated July 24, 2020, received July 24, 2020 Support
- Exhibit SS Correspondence from Michael Coard dated July 30, 2020, received July 30, 2020 Support
- Exhibit TT Correspondence from Marguerite Sankarlall dated August 19, 2020, received August 19, 2020 Support
- Exhibit UU Correspondence from Karen Malkoff dated August 19, 2020, received August 19, 2020 Support
- Exhibit VV Correspondence from Ravindra Sankarlall dated August 20, 2020, received August 20, 2020 Support
- Exhibit WW Correspondence from Patricia Fox dated August 20, 2020, received August 20, 2020 Support
- Exhibit XX Correspondence from Bonnie Schultz dated August 20, 2020, received August 20, 2020 Support
- Exhibit YY Correspondence from Cecilia Kleinrichert dated September 2, 2020, received September 2, 2020 Support
- Exhibit ZZ Correspondence from Wayne Wise dated September 3, 2020, received September 3, 2020 Support
- Exhibit AAA Correspondence from Alan Wise dated September 3, 2020, received September 3, 2020 Support
- Exhibit BBB Correspondence from Joanne Henry dated September 3, 2020, received September 3, 2020 Support
- Exhibit CCC Correspondence from Cecilia Kleinrichert dated September 3, 2020, received September 3, 2020 Support
- Exhibit DDD Correspondence from Michael Farago dated September 10, 2020, received September 10, 2020 Support
- Exhibit EEE Correspondence from Carlton Anglin dated September 10, 2020, received September 10, 2020 Support
- Exhibit FFF Correspondence from Cecilia Kleinrichert dated September 12, 2020, received September 14, 2020 Support
- Exhibit GGG Correspondence from Jeffrey Smoley dated September 26, 2020, received September 28, 2020 Opposed

EXHIBIT A

From:Planning CouncilTo:Teetsel, DawnSubject:FW: References to Woodlands 1/23 PresentationDate:Monday, February 3, 2020 9:11:42 AM

From: winston grace <wiston_91206@yahoo.com>
Sent: Monday, February 3, 2020 8:55 AM
To: Planning Council <PlanningCouncil@broward.org>
Subject: Re: References to Woodlands 1/23 Presentation

I just want to add that I am opposed to the development plan because I believe it will lower home prices in the area and decrease property tax revenue for the county. The new homes may not sell if we have a recession. We have an analogous situation near the Woodlands called the Meditaraneo, which ended up being abandoned during the 2008 crisis and was several vacant lots for years as the economy recovered.

On Monday, February 3, 2020, 08:50:00 AM GMT-4, Planning Council council @broward.org wrote:

Thank you, Mr. Grace. The referenced valuation information and theory will be incorporated into the amendment materials and ultimately the amendment report as it moves forward to the County Commission.

Barbara Blake Boy, Executive Director

115 South Andrews Avenue, Room 307

Fort Lauderdale, Florida 33301

954.357.6982 (direct) www.Broward.org/PlanningCouncil

From: winston grace <<u>wiston 91206@yahoo.com</u>> Sent: Sunday, February 2, 2020 8:13 PM To: Planning Council <<u>PlanningCouncil@broward.org</u>> Subject: References to Woodlands 1/23 Presentation

Dear Sirs,

I spoke at the 1/23 Broward County Planning Council meeting concerning the Woodlands zoning issues.

Enclosed are the references to the research I mentioned on the valuation issues the the zoning addresses

along with a brief description of valuation theory published in the appraisal research community.

Sincerely,

Winston Grace



The Woodland Country Club Recreation Zoning Designation

Winston Grace

With the Woodlands, there is a risk of the luxury homes having a decline in value. Research shows that increase in housing density can decrease home prices (Mullins, 2001) as well as research showing that golf courses tend to increase value in residential communities (Cadena and Thompson, 2015 and Mittal and Byahut, 2016). The history of the research showing the increase in values of homes near golf courses ranges from the research showing the increase in value based on the type of golf course (Steven D. Shultz and Nicholas J. Schmitz,(2009)) to the first paper written on the subject (Do and Grudnisky (1995)). In terms of the types of golf course, the Shultz and Schmidtz study had results giving the highest valuation to homes near private golf course:

	Municipal	Public	Private-Non-Equity	Private-Equity
Price Effect: General Classifications (%)	11.3% (n = 3)	13.1% (n = 10)	27.7% (n = 2)	10.6% (n = 5
Individual Course Models Successfully Estimated	2	9	2	2
Range of Price Effects (%)	6.7%-11.3%	7.8%-56.4%	13.1%-52.3%	32.7%-39.8%

Exhibit 7 | A Summary of Hedonic Regression Results (Frontage Impacts) by General Course Classifications and for Individual Courses The papers referenced here make use of hedonic pricing. This is well described in the following abstract published by Cornell University:

"Buildings can be compared to a bundle of goods sold in a market, where each of the building characteristics combined equate to the expected overall transaction value. By collecting data on many different buildings a regression analysis can be used to determine the correlation (relationship) of each characteristic to the transaction price —e.g. physical characteristics and other external influencing elements that may add or subtract from the building value. Each of these correlations can be measured to determine a degree of confidence (i.e. significance) and then subsequently be used to build a hedonic pricing model. Hedonic pricing models can be useful to determine the intrinsic value of each attribute, as well as to predict transaction prices. This can be particularly useful when traditional discounted cash flow models fall short because of the absence of a market, when no comparable buildings exist, and for nonincome generating buildings." (Monson, 2009)

In the following pages are sample graphs from the referenced article by Cadena and Thompson, "An Empirical Assessment of the Value of Green in Residential Real Estate", as published in The Appraisal Journal, Winter 2015.

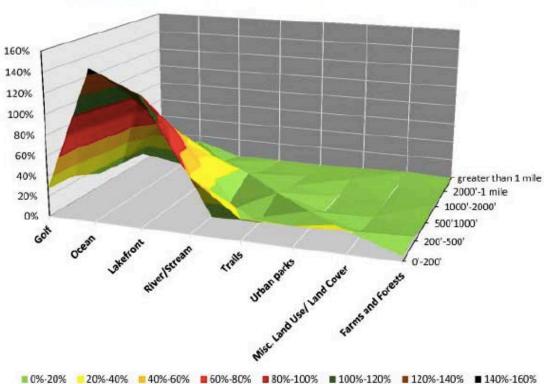


Exhibit 12 | Proximity Premium on Home Values (in %) by Amenity Type

Page 88, Cadena and Thompson, "An Empirical Assessment of the Value of Green in Residential Real Estate", The Appraisal Journal, Winter 2015

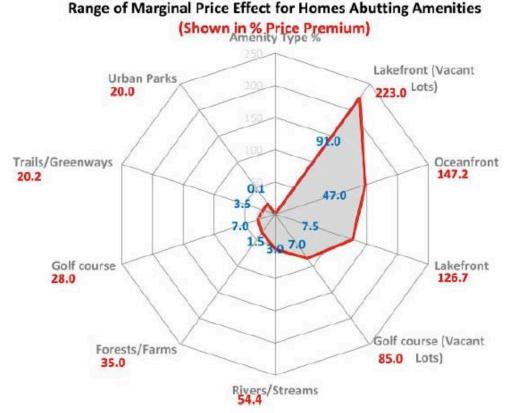


Exhibit 10 | Various Environmental Amenity-Generating Land Uses and Their Maximum Effect on Home Values

Note: By amenity type. Maximum value range is shown in the above chart. Red font is the maximum percentage premium and blue font shows the minimum percentage premium observed in past studies.

Page 86, Cadena and Thompson, "An Empirical Assessment of the Value of Green in Residential Real Estate", The Appraisal Journal, Winter 2015

The next pages are the historical sales price trends for sold homes in the Woodlands as well as the adjacent community of the Mainlands. Following these graphs are the graphs from "SABAL PALMS GOLF COURSE REDEVELOPMENT IMPACT CASE STUDY", February 2018 by John Burn Real Estate Consulting. Their study uses pre-sales data. However, data from closed sales is likely a more accurate assessment.



Sales Price Trend: 13th Floor started the project in 2016



Time frame is from Jan 2010 to Dec 2019 Property Type is 'Single Family' Subdivision Name is like 'mainlands*' County is 'Broward County' City Name is 'Tamarac' Results calculated from 3,021 listings



Time frame is from Jan 2010 to Dec 2019 Property Type is 'Single Family' Subdivision Name is like 'mainlands*' County is 'Broward County' City Name is 'Tamarac' Results calculated from 3,021 listings



The following two charts are using presales data. This means that a person could offer a price for a home with certain expectactions. However, actual sales data gives what buyers are willing to purchase for the homes. This is why

The charts are from the Robert Burns Real Consulting study, "Sabal Palms Golf Course Redevelopment Impact Case Study", September 2018.

New Development	Key	Mainlands "Existing"	Woodlands Country Club	City of Tamarac	Zip Code 33319
	Dates	Average Presale Price	Average Presale Price	Average Presale Price	Average Presale Price
Golf Course Closes	2006	\$239,242	\$394,060	\$273,476	\$294,533
Developer Announces Purchase	2011	\$79,944	\$210,338	\$115,884	\$134,194
New Home Construction Begins	2014	\$133,191	\$275,660	\$166,315	\$185,743
Last 12 Months Value	2017	\$206,121	\$330,199	\$230,816	\$239,080
"Uncertainty"—Golf Closure and Developer Purchase	2006-2011	- 67%	-47%	-58%	-54%
Developer Announces Purchase to Current	2011-Current	• 158%	57%	99%	78%
Developer Starts	2014-2017	/ 55%	20%	39%	29%

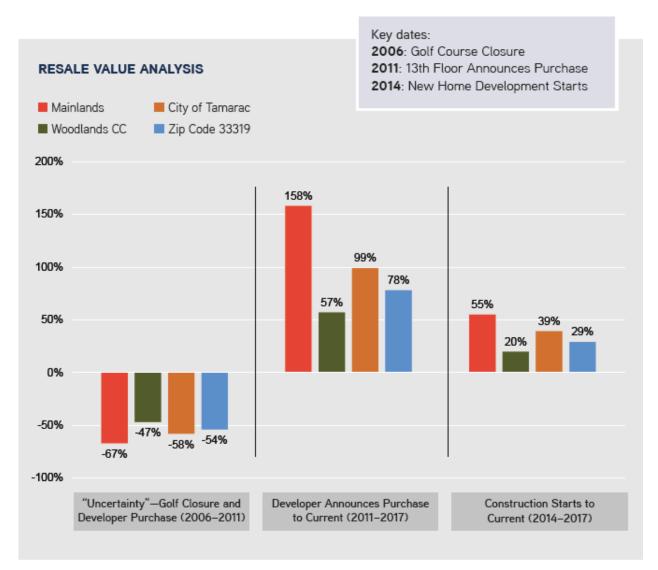
Home prices for existing homes in the / Mainlands at Sabal Palm fell more during the "uncertainty" period than the three sampled market areas.

After 13th Floor announced purchase of the / shuttered course, home prices rose well above average compared to the three sampled market areas.

Since construction of the new homes began on the golf course in the Mainlands, home price appreciation rate has been the strongest of the four areas.

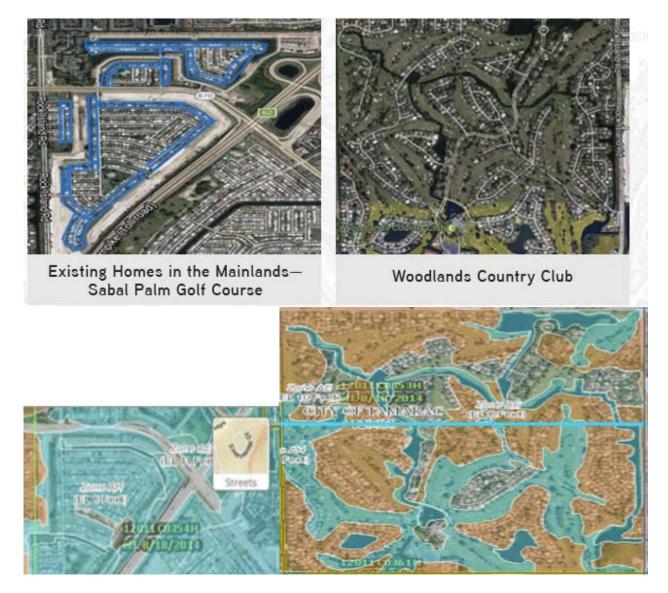
Sources: MLS, John Burns Real Estate Consulting, LLC

"Current" is through Dec. 31, 2017. "New Home Construction Begins" is defined as year opened for sales.



Sources: MLS, John Burns Real Estate Consulting, LLC

Chart from Sabal Palm Redevelopment Impact Study by Robert Burns Real Estate Consulting



Images from The Sabal Palms Redevelopment Impact Case Study by Robert Burns Real Estate Consulting Aerial images of the Sabal Palm Redevelopment Project and the Woodlands Country Club and their respective flood maps. The blue areas in the Woodlands are golf courses in the flood plain that would have tracks of homes. Most of the blue flood plain on the right-hand side can be seen to have the 13th Floor project. The City of Lauderhill is to the left-hand side and below the Woodlands Country Club image and will likely be at greater risk for flooding if the recreation designation is removed from the Woodlands. As can be seen by comparing these images with the images from the flood map, the existing Sabal Palm Development (Mainlands image to the left of the screen) has homes that are in the flood plain.

REFERENCES

1. Mullins, Elizabeth, "Effects of residential zoning density on housing price: A study of Missoula Montana" ScholarWorks at University of Montana Graduate Student Theses, Dissertations, & Professional Papers Graduate School .(2001)

2. Cadena and Thompson, "An Empirical Assessment of the Value of Green in Residential Real Estate", The Appraisal Journal, Winter (2015)

3. Mittal and Byahut, "Value Capitalization Effects of Golf Courses, Waterfronts, Parks, Open Spaces, and Green Landscapes —A Cross-Disciplinary Review JOSRE, Vol. 8, No. 1, (2016)

4. Steven D. Shultz and Nicholas J. Schmitz, "Augmenting Housing Sales Data to Improve Hedonic Estimates of Golf Course Frontage", JRER, Vol. 31, No.1, (2009)

5. Do, A. Quong and Grudniski, Gary, "Golf Courses and Residential House Prices: An Empirical Examination", Journal of Real Estate Finance and Economics, 10:261-270 (1995)

6. Monson, Matt, "Valuation Using Hedonic Pricing Models", Cornell Real Estate Review Volume 7 Article 10, Cornell University, (2009)

EXHIBIT B

Michael Coard
<u>Blake Boy, Barbara</u>
I Support the Woodlands 2020 Vision Plan
Thursday, February 13, 2020 6:58:30 AM

External Email

Dear Mayor and Commissioners,

My husband and I purchased our home in the Woodlands in November of 2017. When looking for a home we considered moving to Coral Springs, Davie, and Plantation as well. The reason we decided to move into the Woodlands came down to the fact that we were able to get the largest home we looked at, and for the lowest price. The home we purchased averaged \$25,000 less than smaller homes in neighboring cities. While this was a great deal for us, it is clear that home values in the Woodlands are not as high as other cities in Broward county. The plan that 13th floor homes has proposed will bring this once beautiful development back to its glory. The amount of resources that will be poured in to our community will certainly benefit aesthetics of the community and we hope that there is a benefit to safety (by gating the community) and to home values. The addition of nearly 400 homes in this community is a price that I feel is reasonable to not have to deal with a dilapidated golf course (should it close) or the potential of another developer coming in with ideas for even more (and possibly multifamily) homes. 13th floor has worked diligently to meet the (reasonable) requests of homeowners in the community and I don't know that another developer would do that. They have our full support.

Sincerely,

Michael Coard

mcoard954@gmail.com, (954) 303-5400

5609 Mulberry Drive

EXHIBIT C

THIS CORRESPONDENCE WAS RECEIVED BY MULTIPLE BROWARD COUNTY COMMISSIONERS

From:	Christopher Coard
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Friday, February 7, 2020 4:20:29 PM

External Email

Dear Mayor and Commissioners,

When my husband and I purchased our home in 2017 we had not yet adopted our children. We are now the proud parents of a 4 year old girl and 5 year old boy. Due to the timing of previous meetings we have been unable to attend in person but we have watched online intently. It seems like some of our neighbors are concerned about the loss of green space. As parents to our 2 wonderful children we can say with certainty that a golf course is not usable green space, unless you are playing golf. The course can not be used by residents during the day as there are occasional golfers on it and we would be on lookout for rogue golf balls. The soil has chemicals that are dangerous for our kids even after the course is closed. I'm not exactly sure what our neighbors are utilizing this green space for. At a recent meeting our mayor indicated that only 9 residents of the Woodlands are members of the country club. Nine out of nearly 900! Even the 50-60 people who may attend meetings to oppose this development do not represent a majority of nearly 900 homes. The proposal from 13th floor homes includes walking trails and the potential for playgrounds, a dog park, and actual usable green space. We fully support this upgrade to our wonderful community.

Sincerely,

Christopher Coard

Christopher.Coard@outlook.com, (954) 802-3522

5609 Mulberry Drive

EXHIBIT D

THIS CORRESPONDENCE WAS RECEIVED BY MULTIPLE BROWARD COUNTY COMMISSIONERS

From:	Joe Burciaga
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Saturday, February 8, 2020 5:23:51 PM

External Email

Dear Mayor and Commissioners,

This company is very thorough in projecting what they are going to do and I believe they will do a good job. I also believe the business of golf courses is not as robust a business as it used to be and I understand why Clublink wants to end their ownership of the Woodlands course. I believe we are lucky to have a company with a record of success show interest in developing this land. If Clublink gets to the point where they feel the need to close the course and walk away, I don't think anyone here will be happy about it and it would be a much less value than letting 13th Floor build their houses.

Sincerely,

,

Joe Burciaga

joe@joeburciaga.com, (954) 257-5577

5209 Banyan Lane

EXHIBIT E

THIS CORRESPONDENCE WAS RECEIVED BY MULTIPLE BROWARD COUNTY COMMISSIONERS

From:	Carol Burciaga
To:	Blake Boy, Barbara
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Saturday, February 8, 2020 5:24:52 PM

Dear Mayor and Commissioners,

We have known since we moved in (2006) that this lovely golf course would one day be sold. I remember the awful sight when the golf course by the Mainlands was abandoned and we do not want that. We checked out some of the work they have done around us and we think they will do a good job. We have confidence that 13thFloor will do a good job and we have found them are approachable with any questions we might have.

Sincerely,

,

Carol Burciaga

carol@joeburciaga.com, (954) 554-3627

5209 Banyan Lane

EXHIBIT F

THIS CORRESPONDENCE WAS RECEIVED BY MULTIPLE BROWARD COUNTY COMMISSIONERS

From:	Maryelle and Ed Brown
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Saturday, February 8, 2020 6:36:06 PM

External Email

Dear Mayor and Commissioners,

The advent of 13th floor as the probable purchaser and developer of the Woodlands is most welcomed to rejuvenate an aging unsecured community. A gem when originally created, it has aged badly and fallen on poor times.

As 28 year residents we have watched the fall from grace with sadness.

Our security is not effective. Our infrastructure is falling apart and our residents for the most part are unwilling to get together and spend he relatively small amount of money to do something about it ourselves. Pride is non existent with the majority.

AND--Recognizing the sad demise of the private country club era, knowing that the golf course WILL be sold....13th floor appears to be our savior. We are aware of their reputation for quality development working as much as possible to satisfy he 900 or more resident owners as compared to the unknown that could replace them if this fails.

It is beyond our ability to imagine what might then happen to us.

So in summation, better the devil you know than the one you don't know.

My wife and I are total supporters of 13th floor and their proposed development plans.

it is said ; " there but for the grace of God go I."

Please allow it to happen.

The Browns

Sincerely,

Maryelle and Ed Brown

ergoman@comcast.net, (954) 295-2274

4605 Norfolk Island Pine Dr.

EXHIBIT G

THIS CORRESPONDENCE WAS RECEIVED BY MULTIPLE BROWARD COUNTY COMMISSIONERS

From:	Bonnie Schultz
То:	Blake Boy, Barbara
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Monday, February 10, 2020 2:29:14 PM

Dear Mayor and Commissioners,

I have lived in the Woodlands for 20+ years. I was a member of the golf course and supported in when it was private and also after Clublink purchased it. The people who live in the Woodlands now do not even support the golf course, yet they want them to maintain it.

The proposals from 13th Floor Homes look good. I think it will be an improvement to our community and increase property values. It's time to update our community. This proposal needs to move forward.

Sincerely,

,

Bonnie Schultz

bschultz927@gmail.com, (954) 324-0046

5800 S Bayberry Lane

EXHIBIT H

THIS CORRESPONDENCE WAS RECEIVED BY MULTIPLE BROWARD COUNTY COMMISSIONERS

From:	Lizbeth cruz
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Monday, February 10, 2020 6:13:57 PM

External Email

Dear Mayor and Commissioners,

Tamarac needs a new light and this plan will not only bring attraction to the city but also more tax payers and tax payers will bring better schools, better pavements and of course make our community as beautiful as ever!

Sincerely,

,

Lizbeth cruz

lizg.cruz@gmail.com, (954) 305-3102

6004 Magnolia Circle

EXHIBIT I

From:Tonne SamuelsTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Tuesday, February 11, 2020 4:35:50 PM

External Email

Dear Mayor and Commissioners,

I support the gate and the open spaces!

Sincerely,

,

Tonne Samuels

Tonnettesam12@gmai.com, (754) 243-9254

5803 Australian pine drive tamarac

EXHIBIT J

From:Tyrone PhilpartTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Tuesday, February 11, 2020 4:55:25 PM

External Email

Dear Mayor and Commissioners,

I am in general support of the plan. I have some reservations of the scope and size of the project

Sincerely,

,

Tyrone Philpart

tlphilpart@gmail.com,

5808 Australian Pime

EXHIBIT K

From:Tracey ColonTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Tuesday, February 11, 2020 5:07:46 PM

External Email

Dear Mayor and Commissioners,

Yes,vI support he project.it enhances the property values. Access to common areas and enhanced security measures also.

Sincerely,

,

Tracey Colon

Traceycolonbaker1@gmaol.com, (786) 350-7113

5820 5820 Australian pine drive

EXHIBIT L

From:	Alan Wise
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Wednesday, February 12, 2020 9:32:54 AM

External Email

Dear Mayor and Commissioners,

We totally support the development plan for Woodlands 2020 by 13th Floor Homes. They have spent a lot of time speaking with individual homeowners to listen to their concerns and offer solutions. We love the fact that 13th Floor is adding walking trails, bike paths and creating an environment that will allow us to enjoy a sense of peace and security in a gated Community, in the middle of a City. The fact that 13th Floor is spending so much time meeting with everyone speaks volumes about their integrity. They have spent time working with us in resolving issues we had with the concerns of my Section 1 Clubhouse and the security concerns because it actually faces out of the Community. They are willing to work with us. Thank you for your time. Regards,

Alan Wise

Sincerely,

Alan Wise

,

ahs1wtw@gmail.com, (954) 484-6041

5208 Buttonwood Court

EXHIBIT M

Sara Jane Rose
<u>Blake Boy, Barbara</u>
I Support the Woodlands 2020 Vision Plan
Friday, February 14, 2020 4:49:54 PM

Dear Mayor & Commissioners,

I am in favor of 13th floor re-developing the area I have called home for over 20 years. The current Woodlands-Clublink clubhouse is obsolete and the golf courses are subpar. The courses have been neglected since the take over and are not in championship condition. The "country club" has lost its sparkle and is no longer a hidden gem. As a real estate broker I believe the redevelopment is a win win for all parties and will increase the property values in the area. I am pleased with 13th floors vision for my community and the value it will add. I am requesting you to vote in favor of the redevelopment.

Thank you.

Regards, Sara Jane Rose

callsarajane@gmail.com, (954) 274-6336

5607 Mulberry Drive

EXHIBIT N

From:	Cecilia Kleinrichert
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Saturday, February 15, 2020 8:25:22 AM

Dear Mayor & Commissioner,

I have lived in the Woodlands for 17 years and have watched it slowly deteriate. The dead trees on the golf course, not keeping the grass groomed the clubhouse is even looking terribly worn and am actually seeing this once lovely neighborhood go to looking pretty disgusting. I think we need Some big improvements and feel this company could do just that. Some people hate change and would rather live in a trashy neighborhood than let that happen. I ask you to please consider letting this project move forward for all of us and our property values. Thank you so much!

Cecilia Kleinrichert

Regards,

Mshouse13@att.net, (954) 733-9639

6203 Hazelwood Circle

EXHIBIT O

From:Kevin BorwickTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Saturday, February 15, 2020 10:17:49 AM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Kevin Borwick

kborwick1@gmail.com, (954) 593-7630

4807 Bayberry Lane, Tamarac FL 33319

EXHIBIT P

From:Vashita JadoolelelTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Monday, February 17, 2020 4:45:47 PM

External Email

Dear Mayor & Commissioners, improved neighborhood and increase in property value and 100 acres f trails. These are all very good reasons why I support the Vision

Regards,

Vjhomes.fl@gmail.com, (954) 801-8038

5305 buttonwood

EXHIBIT Q

From:Sterling GriggsTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Monday, February 17, 2020 5:01:05 PM

External Email

Dear Mayor & Commissioners, ii am in support of the project because t will raise property values.

Regards,

Sterlingforbes@gmail.com, (678) 851-1172

5209 buttonwood

EXHIBIT R

From:Wallace GriggsTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Monday, February 17, 2020 5:05:55 PM

External Email

Dear Mayor & Commissioners, I support the Vision project because it will increase property values.

Regards,

Whgj500@gmail.com, (727) 244-1556

5209 buttonwood court

EXHIBIT S

From:	Sandra Coronel
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Tuesday, February 18, 2020 9:02:28 AM

External Email

Dear Mayor & Commissioners,

I've lived in the Woodlands for years now and the decline of the golf course and the community is obvious. The lack of maintenance, the outdated entry signs, the flooding... I could go on and on.

The plan proposed by 13th Floor is a good plan that addresses these issues AND includes open space and new amenities (trails, gates, clubhouse, etc.) for all of us.

What happens if 13th Floor walks away? The golf course will close, the maintenance will stop, property values will suffer and so will quality of life. And then, Clublink will just sell to some other builder. And what will they build? Apartments? How many units? Let's not risk it.

We've been working with 13th Floor on this plan since I moved here. I did purchased my home knowing about this project.

We have to understand that this project will be a positive improvement for our community and for our city too. It is time to growth and give another families same opportunities as we have. We like it and we ask that you please approve it

Regards,

Scoronel@live.com,

4802 Holly Dr

EXHIBIT T

From:	Ms. Karen Malkoff
To:	<u>Blake Boy, Barbara</u>
Subject:	[SPAM] I Support the Woodlands 2020 Vision Plan
Date:	Thursday, February 20, 2020 6:57:45 AM

Dear Mayor & Commissioner,

I thank you in advance for taking the time in your busy schedule to read this note.

We know there are a great deal of conversations regarding the sale of the Woodlands Golf Courses and the future development of single family homes.

Please read my thoughts on the subject:

• We currently live in a community with 'residential and recreational' activities. This will change to 'residential and recreational' activities with an approximately 398 additional homes. The remaining acreage will be open spaces, ponds, walking and jogging recreational paths, and other recreational activities to be determined.

• Club Link will sell, it is NOT IF, but WHEN. We cannot prevent them from selling their property anymore than someone can prevent us from selling our property.

• 13th floor is developing an approximate 1/3 of the land leaving 2/3 as open recreational space. Will another developer do the same? Or will they build to the higher allowable density standards?

• Environmental issues regarding the detriment of our native flora and fauna are not valid. Our native species most likely will hold strong and may flourish with more water supplies (ponds), and increased quantities of native flora added to the open spaces throughout the new development.

• Drainage issues will be addressed within the development as an increase in the number and size of retention ponds to absorb water. The water will ultimately either be absorbed into the earth or transferred into the County drainage canals as this currently occurs. I believe our canals feed into the canals running along the Turnpike. The retention ponds will be appropriately developed and placed to address the water concerns.

• Infrastructure needs will be addressed and improved if necessary. The new developed homes will have new infrastructure to meet current established standards. If necessary, the established infrastructure will be updated as well. The increased capacity can be handled by the City of Tamarac and the County as they have already been addressed.

• Traffic concerns are being addressed and will be managed with additional entrances and roadways within the development. Perhaps traffic flow can also be addressed with managed and coordinated traffic lights. The Turnpike is currently updating the traffic flow patterns at the Commercial Blvd exchange. This proposed development is not the only development adding additional traffic in the area. New developments and others under construction in the general area affect traffic as well.

• Property values will increase as the Woodlands becomes a gated community. The gates will eliminate traffic that is not related to residents or service personnel. This enhancement to the Woodlands will also decrease trespassing and crime related activities from occurring. The establishment of the gates and increased security they provide may remove the need for additional law enforcement paid patrols, which will then save the current residents a great deal of money. The reduced crime opportunities will also directly reduce the crime statistics in Tamarac and the impact it has on local law-enforcement response calls in the Woodlands. The gated Woodlands community will increase the peace of mind of all of the current and new residents.

• The Woodlands Golf courses are unique - if they are not developed by 13th Floor perhaps these golf courses will become abandoned as the Jackie Gleason Inverrary courses have been for years. Not only will this be an eyesore but this will be a detriment to the city of Tamarac, not to mention the residents who will have to live within the abandoned and vacated land.

• If the Woodlands Golf courses are not developed by 13th Floor, then Who? What will they offer? What will their building density be? We cannot prevent Club Link from selling their property. Let's work with the developer – 13th Floor who has proven they are willing to listen and compromise.

• Many of the speakers and people who have contacted you are "NIMBY"... "Not in my backyard". These people are not necessarily looking for the good of the community as a whole. They are looking out for themselves. For their own selfish reasons. We need people to be responsible, to look forward and not walk around with blinders on and think ONLY of themselves.

• Please look at the whole picture regarding the Woodlands Golf Courses and Community. If 13th Floor and their proposal is not approved now, you WILL face these questions and this consideration again in the near future. Possibly with a higher building density and for a builder who is not willing to listen and compromise to what the residents have to say.

Thank you in advance for your time and consideration. I look forward to your intelligent educated decision regarding this matter.

Regards,

noidea007@bellsouth.net, (954) 647-9744

4806 Banyan Ln

EXHIBIT U

From:Justin BryantTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Thursday, February 20, 2020 6:57:43 AM

External Email

Good Morning,

This email is provide my full support to woodlands 2020. The plan will attract more families and of course help the city provide more funds to other sources. Such as school, roads, ect. After seeing the results 13floors have done throughout the city, I am confident in their ability to build homes that will benefit not only the home owners but the city itself.

We just need to adjust the school system and be on the same school district as the city of tamarac is, which is Jp Taravella instead of the high school in lauderhill that is not apart of our city.

Thank You, Justin Bryant

Justin.edwin.bryant@gmail.com, (954) 326-1225

6005 Magnolia circle tamarac Florida 33319

EXHIBIT V

From:Joanne HenryTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Thursday, February 20, 2020 6:57:42 AM

External Email

Dear Mayor & Commissioners,

I am in favor and support the Woodlands2020 Vision Plan.

Regards,

Maddieanne2034@gmail.com, (440) 225-4248

5105 Banyan Lane

EXHIBIT W

From:John HenryTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Thursday, February 20, 2020 6:57:40 AM

Dear Mayor & Commissioners,

Time to move on to a different phase.

Regards,

Maddieanne2034@gmail.comTime, (440) 225-4248

5105 Banyan Lane

EXHIBIT X

From:Jeffrey ReidTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Saturday, February 22, 2020 5:44:26 PM

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because I intend to use the new modern clubhouse and amenities that will improve our quality of life.

Sincerely,

Jeffrey Reid

reidj50@gmail.com, (754) 610-8318

4807 banyan lane Tamarac Florida

EXHIBIT Y

From:Debra GonzalezTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Monday, February 24, 2020 10:31:46 AM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new housing and physical improvements will increase the value of my home.

Sincerely,

Debra Gonzalez

dbrgnzlz@earthlink.net, (919) 539-6350

6201 Royal Poinciana Lane

EXHIBIT Z

From:	Pablo Di Benedetto
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Monday, February 24, 2020 1:54:16 PM

External Email

Dear Mayor & Commissioners,

We support the project 13th Floor has proposed. We welcomes the reduction in density and we continue to work with the developer to improve on the much need project of the Woodlands. The current neighborhood is no longer the gem of Tamarac nor of Broward County. We need help to revitalize the area and this project will help do exactly that.

The homes values, in some cases, have gone down for various reason but the square footage and lot sizes should demand a premium and yet we are no where near the true value that was the Woodlands.

Regards,

Pablo Di Benedetto

pdibenedetto@gmail.com,

6001 Royal Poinciana Ln

EXHIBIT AA

From:patricia foxTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Tuesday, February 25, 2020 3:29:46 PM

Dear Mayor & Commissioners,

As a resident of The Woodlands and after meeting with 13th Floor, while not 100% on board with everything yet as it is still in development and there may be changes, as it stands right now I do in fact support this.

Regards, Patricia Fox

pattifox1029@gmail.com, (561) 236-4510

5601 mulberry drive

EXHIBIT BB

From:Phillip SyphersTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Wednesday, February 26, 2020 11:48:26 PM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the improved infrastructure and lakes will make our community more resilient to environmental changes.

Sincerely,

Phillip Syphers

pps75@hotmail.com, (813) 731-9187

6209 Royal Poinciana Lane

EXHIBIT CC

From:	Sara Jane Rose				
To:	<u>Blake Boy, Barbara</u>				
Subject:	I Support the Woodlands 2020 Vision Plan				
Date:	Saturday, February 29, 2020 11:12:25 AM				

External Email

Dear Mayor & Commissioners,

Please make Woodlands 2020 a reality. Our 50 year old community needs your support and a much needed facelift. This project would bring affordable housing to accommodate the influx of new residents moving to South Florida.

My husband and I have lived in the Woodlands for over 20 years and have no intentions on moving.

Tamarac is a great place to live and 13th Floor's vision for us can only make Tamarac a better place.

I strongly support Woodlands 2020.

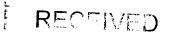
Regards, Sara Jane Rose 5607 Mulberry Drive

callsarajane@gmail.com, (954) 274-6336

5607 Mulberry Drive

Feb. **27**, 2020

EXHIBIT DD



MAR 0 2 2020 BROWARD COUNTY PLANNING COUNCIL

Ron DeSantis, Governor, State of Florida The Capital Tallahassee, FL 32399-0001

Re: Moratorium, South Florida, Building Permits, Now to June 30, 2050

Dear Governor DeSantis,

As of January 2016, Florida had 125 endangered and threatened species listed under the federal Endangered Species Act. (See A attached). The Endangered species Act of 1973, at 16 USC. As of December 2018 the Act is under the jurisdiction of the U.S.

Fish and Wildlife Service .The scientific research in Florida and by the federal government has already been done and is conclusive. As of December 2018, Florida had many protected and endangered plants, fish, amphibians, reptiles, birds, mammals and invertebrates for a total of 131 species (see B attached). It is a lot more than alligators and manatees (see C attached) in the Everglades. It is one of the major reasons that Florida residents and tourists travel and come to Florida; the unspoiled nature of the land and the beauty of the environment (see D attached). It is time to stop the unwise expansion of Florida which can only result in the destruction of its natural assets, its land, plants and animals. Once gone, it cannot be replaced. It will be gone forever. Once gone, our future is also gone. Once gone, Florida is gone forever. Only YOU can make a difference. I don't mean to sound like smokey the bear and a lit campfire.

Palm Beach County, Broward County and Miami- Dade County in Southern Florida border hug the Atlantic Ocean and the Everglades. The beauty of these counties, the ocean and the everglades is majestic. For instanced, as an example, the City of Tamarac, in its own web site, borders upon the Everglades Wildlife Management Area and defines its Western portions of that City as" Environmentally Sensitive Land " (See E attached). Isn't all of Florida a sensitive area? I am a full time resident of Tamarac, Florida. I am not a "tree huger", but I am concerned. I am only an individual Florida resident who has sounded the alarm. Is anybody listening? I am reminded of Ansel Adams, a favorite photographer of the 1930's who said "In wildness is the preservation of the world". Is anybody listening?

By 2050, some ten percent of the unregulated U.S. population will reside in Florida (see F attached) if nothing is done. It is estimated currently that 900 people move to Florida every day. NOW is the time to stop the rapid and uncontrolled population of South Florida. Mere present growth in South Florida is unfair to our children and grandchildren. Now is the time to preserve what we have. Now is the time before it is too late. "Growth" does not mean expansion. It just means more cement, people, cars, roads, crime, and a burden on municipalities.

ONLY YOU CAN PRESERVE FLORIDA. ONLY YOU CAN SAVE FLORIDA. IT IS A WIN/WIN SITUATION. IT IS LOGICAL AND MAKES SENSE.

It is time to consider a permanent (until June 30, 2050) moratorium on building permits in Southern Florida. (see G annexed). Prohibit building permits for new residences, specifically in Palm Beach, Broward and Miami-Dade Counties. A moratorium is not new and a very wise decision for government. It has never been done on a statewide level. It is time. But, a moratorium on new residences (building permits) has been allowed on a city and county level in Atlanta, GA, Narragansett, RI, New Orleans, LA, Orange County, CA, Montgomery County, MD, Monroe, NY, Orangetown, NY, Samomich, WA, Garndiner, NY, Oakland, CA, University Heighs IA, St. Croix City, WI, and Gig Harbor, WA. Uncontrolled growth is bad for the Florida and its environment (see above). A permisable moratorium would be allowed if it was tailored to a long time

frame. The U.S. Supreme Court, by case law, allows a moratorium. See also City of Roswell v. Outdoor Systems ,Inc., 274 GA 30, SE2nd 90 (2001) The only ones hurt are land developers, house builders and concrete mixers, who compromise 1/20th of .01per cent of all the population. 99.99 percent of the Florida population will applaud your decision. Realtors should be happy for the increase of their commissions on resale of residences. An avoidance of the burden of proof is allowable. There is a lot of evidence that an increased population of Southern Florida is very harmful and ultimately destructive. It is not partisan politics. It is not liberal/conservative ideas. It is not old/new. It is not raw political power. It is what we think we have vs what we will trade away for present greed. It is NOW. Thank you.

Respectfully yours,

Ronald R. Coles 4813 Banyan Lane Tamarac, Florida 33319 rrclegal@yahoo.com 207-229-5321

Cc: Florida Legislature, Tallahassee Hon. Nita Tene Omphroy, Tallahassee Hon. Perry E. Thurston, Jr., Tallahassee Hon. Marco Rubio, Washington DC Hon. Rick Scott, Washington, DC Florida Fish and Wildlife Conservation Commission Florida Dept. of Plants City of Tamarac, Florida County of Broward, Environmental and Growth Dept. County of Palm Beach County of Miami-Dade Florida Dept. of Agriculture Florida Dept. of Environmental Protection Florida Fish and Wildlife Research Institute US fish and Wildlife Dept., Washington DC National Oceanic and Atmospheric Administration, Washington DC University of Florida, Institute of Food and Agricultural Science US Forest Service, Washington DC CBS News, Miami ABC News, Miami NBC News, Miami Fox News, Miami APR News, Washington DC PBS News, Washington DC **BBC News, London** Sawgrass Sun, Ft. Lauderdale Miami Herald, Miami Palm Beach Post, Palm Beach Florida Dept. of Transportation Florida Fish and Wildlife Conservation Commission Hon. Martin Bolton, City of Tamarac Tamarac Talk Florida Natural Areas Registry Florida Resources and Environmental Analysis Center Bachelor Foundation, Miami

Environmental policy in Florida

Environmental policy aims to conserve natural resources by balancing environmental protection with economic growth, property rights, public health, and energy production. This is done mainly through laws and regulation passed at all governmental levels and influenced by many stakeholders with different agendas.

HIGHLIGHTS

• In 2015, Florida allocated around \$1 billion to its Department of Environmental Protection.

As of January 2016, Florida had 125

endangered and threatened species listed

under the federal Endangered Species Act.

Environmental policy in Florida

POLICY

Environmental policy in other states Endangered species in Florida

Click on the tabs below to read about major environmental issues in Florida and policies related to air and climate change, land, water, waste, and endangered species.

Budget

Environmental budget

Florida spent over \$1.3 billion on its Environmental Protection department in 2015.

	[hide]				
State	Divisions/Departments	Fiscal year 2015	Fiscal year 2014	Fiscal year 2013	Fiscal year 2012
Florida	Environmental Protection	\$1,308,566,053	\$1,305,936,102	\$1,289,288,103	\$1,412,985,314
	Environmental				
Alabama	Management; Conservation and Natural Resources	\$595,886,002	\$339,154,327	\$350,865,483	\$315,561,972
Georgia	Natural Resources	\$248,600,677	\$253,693,099	\$253,466,059	\$262,272,094
Mississippi	Conservation	\$52,236,352	\$48,197,234	\$45,790,077	\$46,355,760
Alabama Exe Georgia Gove	rida State Senate cutive Budget Office ernor's Office of Planning and Bu epartment of Finance and Admini				

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Air

Clean Air Act

See also: Implementation of the Clean Air Act

The Clean Air Act is a federal law aimed at maintaining air quality and reducing air pollution. The law requires states and private industries to meet national air pollution standards. Each state must implement an EPA-approved plan to reduce air pollutants from industrial facilities such as chemical plants and utilities. Over 42,000 facilities nationwide were regulated under the Clean Air Act in 2015.[1][2][3]

Florida had 946 facilities regulated under the Clean Air Act in 2014.

State-regulated facilities under the Clean Air Act				
State	Facilities (2014)			
Florida	946			
Alabama	737			
Georgia	1,683			
Mississippi	571			
United States total	42,201			

Source: U.S. Environmental Protection Agency, "Power Plants Likely Covered by the Toxics Rule"

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Mercury and air toxics standards

See also: Mercury and air toxics standards

Federal mercury and air toxics standards target mercury and other hazardous pollutants from 580 coal and oil-fired power plants nationwide. The standards are meant to reduce human exposure to mercury emissions.^{[4][5]}

In June 2015, the U.S. Supreme Court ruled in a 5-4 decision that the EPA did not properly consider the regulation's costs and mandated the agency perform a cost-benefit analysis. The ruling did not strike down the mercury standards but required the EPA to conduct a more extensive cost-benefit analysis by April 2016. The EPA issued its cost-benefit analysis on April 18, 2016. [6][7][8][9]

As of 2015, Florida had 26 power plants subject to the mercury standards.^[10]

Power plants affected mercury and air toxics standards (MATS) by state [hide]

State	Number of power plants affected
Florida	26
Alabama	9
Georgia	10
Mississippi	9
United States total	585

Source: U.S. Environmental Protection Agency, "Power Plants Likely Covered by the Toxics Rule"

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Ozone standards

See also: Ground-level ozone standards

Federal ozone standards establish the acceptable amount of ground level ozone, commonly known as smog, which is formed when nitrogen oxide combines with other organic chemicals in the atmosphere. Automobiles, power plants, factories and manufacturing centers emit the nitrogen oxide necessary for ozone formation. In high concentrations, ozone is harmful to human health.^{[11][12]}

In 2015, the EPA lowered the acceptable amount of ground-level ozone (smog) in the air. The standards will go into effect in 2025. States would have between the years 2020 and 2037 to create and establish a plan to meet the standards, depending how much ozone forms in certain areas of a state.^{[13][14]}

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Clean Power Plan

See also: Clean Power Plan and climate change

In 2015, the EPA finalized a regulatory action aimed at mitigating potentially human-caused climate change known as the Clean Power Plan. The plan's goal is to reduce carbon dioxide (CO₂) emissions from coal- and oil-fired power plants (fossil fuel-fired) and natural gas-fired power plants by 32 percent from 2005 levels by 2030. Each state would have to meet goals based on the number of fossil fuel- and natural gas-fired plants in the state.^{[15][16][17]}

As of February 2017, Florida was one of the 27 states that challenged the plan in court while 18 states supported the plan. As of February 2017, 45 states took a stance on the Clean Power Plan.^{[18][19]}

In February 2016, by a 5-4 vote, the U.S. Supreme Court temporarily delayed the plan's implementation pending a ruling by the U.S. Court of Appeals for the District of Columbia Circuit. As of March 30, 2017, the circuit court had not issued a ruling.^{[19][20]}

On March 28, 2017, President Donald Trump (R) issued an executive order directing the EPA to consider formally repealing the Clean Power Plan.^[21]

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Carbon dioxide reductions under the Clean Power Plan

Florida power plants would have to reduce their CO_2 emissions by 26.3 percent by the year 2030 if the plan were fully implemented.^[22]

CO2 reduction goals by state, in pounds per megawatt hours (lbs/MWh) [hide]

State	2012 baseline (Ibs/MWh)	Interim goal, 2022-2029 (Ibs/MWh)	Final goal, 2030 and beyond (Ibs/MWh)	Percentage reduction, 2012-2030
Florida	1,247	1,026	919	-26.3%
Alabama	1,518	1,157	1,018	-32.94%
Georgia	1,600	1,198	1,049	-34.44%
Mississippi	1,185	1,061	945	-20.25%

*Alaska and Hawaii are exempt from reduction goals.

**Vermont has no reduction goals because the state has no power plants.

Source: U.S. Environmental Protection Agency, "Clean Power Plan State Goal Visualizer"

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Carbon dioxide emissions by energy source

Energy-related CO ₂ emissions by source, 2013	(in million metric tons)
--	--------------------------

State	Coal		Petroleum		Na	tural gas	
Cluic	Total	Percentage	Total	Percentage	Total	Percentage	Total
Florida	47.7	21.9%	103.9	47.7%	66.1	30.4%	217.6
Alabama	53.3	44.4%	33.2	27.7%	33.3	27.8%	119.8
Georgia	40.2	30.4%	58.6	44.2%	33.7	25.4%	132.5
Mississippi	9.2	15.3%	28.2	46.9%	22.7	37.8%	60.1
United							
States	1,701.7	32.2%	2,167.9	41.1%	1,409	26.7%	5,278.6
total							

Source: U.S. Energy Information Administration, "State Carbon Dioxide Emissions"

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Carbon dioxide emissions by sector

- -

More than 48 percent of Florida's emissions came from the electric power sector followed by 44 percent from the transportation sector in 2013.

	CO ₂ emissions by sector, 2013						
State	Commercial	Electric power	Residential	Industrial	Transportation		
Florida	2.4%	48.1%	0.5%	5%	44%		
Alabama	1.5%	53.6%	1.8%	17.8%	25.3%		
Georgia	3%	40.5%	5.3%	10.8%	40.4%		
Mississippi	2.4%	35.9%	2.8%	18.8%	40%		
United							
States	4.2%	38.3%	6.3%	18.2%	33%		
total							

Source: U.S. Energy Information Administration, "State Carbon Dioxide Emissions"

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Land

Federal land policy

See also: Federal land policy

Federal land policy involves the conservation and management of natural resources on land owned by the federal government. Most federal land policies focus on conservation, recreation, oil and natural gas extraction, wildlife and forest management, and grazing.

The federal government owns around 640 million total acres of land (about 28 percent) of the 2.27 billion acres of land in the United States. Four federal agencies are responsible for 608 to 610 million acres of federal land—around 26 percent of all land in the United States. Depending on the agency responsible for them, these lands may be used for conservation, recreation, wildlife protection, grazing, energy production and other purposes.^[23]

Around 52 percent of federally owned acres are in 12 Western states including Alaska, 61 percent of which is federally owned. In contrast, the federal government owns 4 percent of land in the other 38 states.^[23]

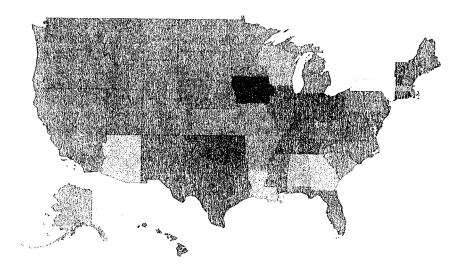
Federal land ownership

As of 2013, the federal government owned 13.2 percent of all land in Florida.

Federal land ownership by state, 2013 [hi							
State	Total federal land (in acres)	Total land (in acres)	Percentage of land owned b the federal government	y			
Florida	4,599,919	34,721,280	13.2%				
Alabama	844,026	32,678,400	2.6%				
Georgia	1,474,225	37,295,360	4%				
Mississippi	1,546,433	30,222,720	5.1%				
United States total	623,313,931	2,271,343,360	27.4%				

Source: Congressional Research Service, "Federal Land Ownership: Overview and Data"

The map below details changes to federal land ownership between Back to top[↑] 1990 and 2013. The amount of federal land in Florida increased by 254,943 acres—an increase of 5.5 percent.



Land management by agency

The table below shows the number of acres managed by federal agency in 2013.

Federal land ownership by state and agency, 2013 [hide]								[hide]		
State	BLM		Forest Se	rvice	FWS	S	NPS	6	Defer	ise
Giaic	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%
Florida	351	0.01%	1,193,051	25.94%	281,986	6.13%	2,469,065	53.68%	655,466	14.25%
Alabama	2,753	0.33%	670,092	79.39%	32,334	3.83%	17,405	2.06%	121,442	14.39%
Georgia	0	0%	867,761	58.86%	482,942	32.76%	39,781	2.7%	83,741	5.68%
Mississippi	5,020	0.32%	1,191,774	77.07%	210,894	13.64%	104,015	6.73%	34,730	2.25%
U.S. total	247,252,228	39.67%	192,932,426	30.95%	89,080,785	14.29%	79,648,788	12.78%	14,399,704	2.31%
Source: Congressional Research Service, "Federal Land Ownership: Overview and Data"										

National parks

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As of December 2015, the U.S. National Park Service oversaw 409 sites within the National Park System and assists in managing national historic areas, wild and scenic rivers, historic landmarks, and national trails. As of December 2015, the National Park System contained more than 84 million acres, including national parks, historical parks and sites, national monuments, battlefields and military parks, recreation areas, seashores, and parkways. Around 280 million visitors attended sites in the National Park System in 2014. The National Park Service employees as of July 2015.^[24]

Florida had 11 National Park Service sites as of January 2016. A complete list of Park Service sites in Florida can be found here.

National Par	k Service sites by state	[hide]
State	National Park Service	sites
Florida	11	
Alabama	9	
Georgia	12	
Mississippi	7	
United States total*	492	
*50 state total only; U.S.	territories not included	

Source: U.S. National Park Service, "National Parks Listed by State"

Park visits and visitor spending

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[hide]

In 2014, Florida parks had 10.67 million total visits, which generated \$627.7 million in visitor spending.

National Park Service visits and visitor spending by state

State	Total recreation visits			Total visitor spending (in millions)		ding (in
	2014	2013	2012	2014	2013	2012
Florida	10,667,459	10,282,817	10,366,612	\$627.7	\$584.1	\$572.6
Alabama	753,180	749,855	717,724	\$28.8	\$27.9	\$26.5
Georgia	7,491,112	7,046,577	7,350,309	\$378.	\$348.2	\$354.8
Mississippi	6,557,119	6,784,616	6,449,713	\$198.6	\$202.9	\$191.4
United						
States total*	252,859,729	237,224,421	246,302,115	\$14,841.9	\$13,800.2	\$13,953.8

*50 state total only; U.S. territories not included

Source: U.S. National Park Service, "National Park Service Visitor Use Statistics"

Payments in lieu of taxes

The U.S. Department of the Interior pays local governments each year to offset what they lose in property taxes due to non-taxable federal land within their borders, commonly known as payments in lieu of taxes (PILT). PILT payments go toward fire and police departments, public schools, road construction, and other local services. PILT amounts are based on population and the amount of federal land in a county. From 1977 (when PILT payments began) to 2015, the Interior Department paid out around \$7.1 billion to states, territories and Washington, D.C. PILT payments can be used for any governmental purpose.^{[25][26]}

Florida received \$5.27 million in PILT payments in 2015.

2015 payment 2014 payment 2013 payment

Payments in lieu of taxes by state, 2013-2015 [hide]

State

Florida	\$5,271,756	\$5,311,455	\$4,968,346
Alabama	\$1,131,049	\$1,023,078	\$901,119
Georgia	\$2,512,499	\$2,450,254	\$2,286,091
Mississippi	\$1,833,943	\$1,825,109	\$1,580,410
United States total	\$439,084,000	\$436,904,919	\$401,756,129

Source: U.S. Department of the Interior, "Payments in Lieu of Taxes by State"

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Oil and natural gas activity

See also: Oil and natural gas extraction on federal land

The federal government leases its land to private individuals and companies for energy development, including drilling for crude oil and natural gas, solar energy, and geothermal energy. Around 166 million acres of federal land can be leased for energy development. Oil and natural gas drilling on federal lands in the United States is primarily overseen by the U.S. Bureau of Land Management.^{[23][27]}

Production on federal land

Florida produced no crude oil or natural gas in 2014 on federal land.

Oil and natural gas production on federal land, 2014 [hide]					
State	Oil production (in thousands of barrels)	Natural gas production (in million cubic feet)			
Florida	0	0			
Alabama	24.52	18,430.66			
Georgia	0	0			
Mississippi	408.7	252.1			
United States total	148,802.95	2,499,845.86			

Source: Office of Natural Resource Revenue, "Statistical Information"

Land with production

Private oil and natural gas companies apply for leases from the BLM to produce energy on federal land. The BLM makes leasing decisions based on a land use plan submitted by the company and the potential environmental impact of the production. If a lease is approved, the company must submit information to the BLM about how it will conduct its drilling and production. The BLM also inspects a company's operations throughout the production.^[28]

Florida had no producing leases (the number of leases that include a well capable of producing oil or gas) and no producing acres (acres where oil or gas is produced) of federal land in 2015.

Oil and gas producing leases and acres on federal land by state, 2013-2015	[hide]
--	--------

	FY 2015		FY 2014		FY 2013	
State	Producing leases	Producing acres	Producing leases	Producing acres	Producing leases	Producing acres
Florida	0	0	0	0	0	0
Alabama	24	7,667	24	7,707	23	7,66 7
Georgia	0	0	0	0	0	0
Mississippi	76	38,186	71	34,192	75	38,186
United						

States	23,770	12,617,743	23,657	12,690,806	23,507	12,617,743
total						

Source: U.S. Bureau of Land Management, "Oil and Gas Statistics"

Water

Back to top†

Clean Water Act

See also: Implementation of the Clean Water Act

The Clean Water Act is a federal law regulating pollutants discharged into all waters of the United States, including lakes, rivers, streams, and wetlands. The federal government approves water quality and technology standards for major sources of water pollution, such as chemical plants, steel manufacturers, municipal facilities, and others. Each state must establish water quality standards for all bodies of water within its boundaries.^[29]

Under the Clean Water Act, it is unlawful to discharge any pollutant from any source into navigable waters without a federal permit. The permit specifies what limitations or conditions apply to a facility before the facility may discharge any pollutants. Federal permits may contain facility-specific requirements and limitations depending on the water source.^[30]

In 2015, Florida had 23,531 facilities with Clean Water Act permits allowing facilities to discharge their pollutants.^[31]

Clean Water Act permits by state				
State				
Florida	23,531			
Alabama	10,695			
Georgia	1,125			
Mississippi	1,990			
United States total	208,962			

Source: U.S. Environmental Protection Agency, "National Water Activity Dashboard"

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Public water systems

Florida had 5,524 public water systems in 2015.^[32]

Public drinking water systems by state, 2015			
State	Public water systems (2015)		
Florida	5,524		
Alabama	588		
Georgia	2,409		
Mississippi	1,211		
United States total	149,294		

Source: U.S. Environmental Protection Agency, "National Drinking Water Activity Dashboard"

Waters of the United States

See also: Waters of the United States

In 2015, the EPA finalized the Waters of the United States rule, which is aimed at clarifying the bodies of water that are under federal jurisdiction. The EPA and the U.S. Army Corps of Engineers would require a federal permit for proposed projects that may involve a discharge of a pollutant into waters covered under the rule.^{[33][34][35][36][37][38][39]}

As of April 2016, Florida was one of the 31 states that challenged the rule's legality in federal court. On October 9, 2015, the United States Court of Appeals for the 6th Circuit temporarily blocked the rule nationwide to deliberate whether the rule was permissible under federal law.^{[40][41][42][43][44]}



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Superfund sites

See also: Comprehensive Environmental Response, Compensation and Liability Act

Superfund is a federal program that addresses contaminated waste sites and their return to practical use. Superfund sites include oil refineries, smelting facilities, mines and other industrial areas. The federal government can compel the private entities responsible for a waste site to clean the site or face penalties. If the federal government cleans a waste site, it can compel the responsible company to reimburse the government for cleanup costs. Because Superfund sites are added and removed from a prioritized list on a regular basis, the total number of Superfund sites since the program's inception in 1980 is unknown.^{[45][46][47]}

The costs of the Superfund program vary. According to the U.S. Government Accountability Office, the program received an average of \$1.2 billion each year between 1981 and 2009.^{[48][49][50]}

Superfund sites by state (January 2016)				
State Superfund sites				
Florida	53			
Alabama	13			
Georgia	16			
Mississippi	8			
United States total	1,303			

As of January 2016, Florida had 53 Superfund sites.^[51]

Source: U.S. Environmental Protection Agency, "National Priorities List (NPL) sites by state"

Back to top†

Hazardous wastes sites

The federal Resource Conservation and Recovery Act covers hazardous wastes, including their generation, treatment, storage and disposal. States may regulate hazardous wastes rather than the federal government. The EPA is responsible for all hazardous waste requirements if no state program exists. Hazardous waste regulations cover waste generators, transporters, treatment centers, storage and disposal facilities.^[52]

Florida had 29,374 regulated waste facilities in 2015.^[53]

Federally regulated waste facilities by state, 2015			
	State	Facilities (2015)	
Florida		29,374	
Alabama		5,239	
Georgia		4,764	
Mississippi		2,917	

United States total

431,914

Source: U.S. Environmental Protection Agency, "National Hazardous Waste Activity Dashboard"

Endangered species

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Endangered Species Act

See also: Endangered species in Florida

The Endangered Species Act is a federal law that mandates the listing and conservation of endangered and threatened species. The legislation is meant to prevent the extinction of vulnerable species throughout the United States and to recover a species' population to the point where listing the species as endangered or threatened is no longer necessary. The U.S. Fish and Wildlife Service is responsible for the law's implementation.^{[12][55]}

Federally listed animal species in Florida

There were 125 endangered and threatened species believed to or known to occur in Florida as of January 2016.^[56]

The table below lists the 65 endangered and threatened animal species in the state. When an animal species has the word "Entire" after its name, that species will be found all throughout the state.

Click the [show] button to see the names of all federally protected animal species.

Endangered animal species in Florida

[show]

Federally listed plant species in Florida

The table below lists the 60 endangered and threatened plant species in the state.^[57]

Click the [show] button to see the names of all federally protected plant species.

Endangered plant species in Florida

[show]

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News

Clean Power Plan

The link below is to the most recent stories in a Google news search for the terms **Florida Clean Power Plan.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Environmental policy in Florida - Google News

Waters of the United States

The link below is to the most recent stories in a Google news search for the terms **Florida Waters of the United States.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Environmental policy in Florida - Google News

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Clean Water Act

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Environmental policy in Florida - Google News

Endangered species

The link below is to the most recent stories in a Google news search for the terms **Florida Endangered Species Act.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Environmental policy in Florida - Google News

Federal land

The link below is to the most recent stories in a Google news search for the terms **Florida federal land.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Environmental policy in Florida - Google News

Superfund

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Environmental policy in Florida - Google News

Climate change

The link below is to the most recent stories in a Google news search for the terms **Florida climate change.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Environmental policy in Florida - Google News

Drinking water

The link below is to the most recent stories in a Google news search for the terms **Florida drinking water.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Environmental policy in Florida - Google News

Governance

Ballot measures

Below is a list of ballot measures relating to environmental issues in Florida.

Natural resources

 Florida Natural Resources Conservation and Fish and Wildlife Conservation Commission, Amendment 5 (1998)

Environment

- Florida Amendment 9, Ban Offshore Oil and Gas Drilling and Ban Vaping in Enclosed Indoor Workplaces Amendment (2018)
- Florida Assessment of High Water Recharge Lands, Amendment 3 (1988)
- Florida Conservation and Outdoor Recreation Bonds, Amendment 2 (1972)
- Florida Drainage, Amendment 1 (1906)
- Florida Endangered Lands and Parks Bonds, Referendum 1 (1972)
- Florida Everglades Sugar Production Levy, Amendment 4 (1996)
- Florida Everglades Trust Fund, Amendment 6 (1996)
- Florida Game and Fresh Water Fish Commission, Amendment 3 (1942)
- Florida Game and Fresh Water Fish Commission, Amendment 3 (1960)
- Florida Game and Fresh Water Fish Commission, Amendment 4 (1974)

Water

- Florida Regional Water Control District Tax Limits, Amendment 1 (March 1976)
- Florida Responsibility for Paying Costs for Water Pollution, Amendment 5 (1996)
- Florida Sale of Submerged Lands, Amendment 5 (1970)
- Florida State Bonds for Water Facilities, Amendment 4 (1980)

Agencies and organizations

- The Florida legislature has a Senate standing committee on Environmental Preservation and Conservation. This committee is responsible for many facets of environmental policy, including air and water quality, alternative energy, coastal management, environmental land acquisition and protection, environmental resource permitting, the Florida Everglades, and hazardous and solid waste, among other environmental issues. The committee also conducts oversight of the Florida Department of Environmental Protection and its staff.^[58]
- The Florida Department of Environmental Protection (DEP) regulates, conserves and manages the state's natural resources and enforces Florida's environmental laws.^[59]
- The Florida Fish and Wildlife Conservation Commission, created



Banot measures By state By year Not on ballot Local [show] in 1999, manages the state's fish and wildlife resources. The commission enforces rules on fish and wildlife use, conducts research on fish and wildlife populations, and runs programs for the public on hunting and boating safety, among other public outreach initiatives.^[60]

Recent legislation

The following is a list of recent environmental bills that have been introduced in or passed by the Florida state legislature. To learn more about these bills, click the bill title. This information is provided by BillTrack50 and LegiScan

Note: Due to the nature of the sorting process used to generate this list, some results may not be relevant to the topic. If no bills are displayed below, no legislation pertaining to this topic has been introduced in the legislature recently.

Environmental legislation in Florida

FL H1347 - Apalachicola Environmental Stewardship Act

Provides annual appropriation from Florida Forever Trust Fund to Apalachicola Area of Critical State Concern for specified purposes; revises principles for guiding development within Apalachicola Bay Area of Critical State Concern to include specified projects.

2/4/2020: House Agriculture and Natural Resources Subcommittee Hearing (12:00 2/4/2020 12 HOB)

FL S0412 - License Plates

Providing an exception to a design requirement for dealer license plates and for fleet license plates; allowing the Department of Highway Safety and Motor Vehicles to authorize dealer and fleet specialty license plates; providing additional procedures...

2/3/2020: Senate Infrastructure and Security Hearing (16:00 2/3/2020 110 Senate Building)

FL S1154 - Community Associations

Exempting certain property association pools from Department of Health regulations; providing that discriminatory restrictions are unlawful, unenforceable, and declared null and void; providing that certain discriminatory restrictions are extinguished...

Groups

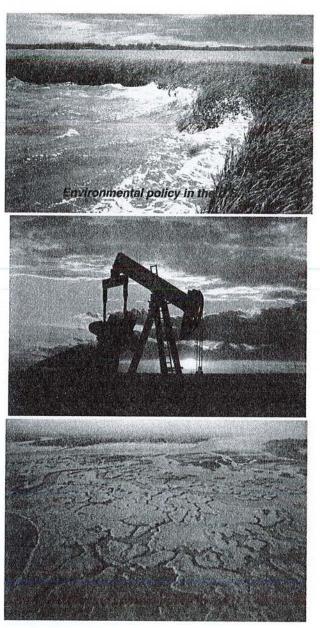
To nominate a group for inclusion on the list below, email us at editor@ballotpedia.org.

Below is a partial list of environmental advocacy organizations in Florida. A complete list of groups by state can be accessed on the website Eco-USA.^[61]

- Alachua Conservation Trust
- Audubon Florida
- Calusa Land Trust
- Conservation Foundation of the Gulf Coast
- Conservation Trust for Florida
- Earth Justice Florida
- Environment Florida
- Everglades Foundation
- Florida Defenders of the Environment
- Florida's Nature Coast Conservancy
- Florida Trail Association
- Florida Wildlife Federation
- Friends of the Everglades
- Green Horizon Land Trust
- Indian River Land Trust
- Nature Conservancy
- North Florida Land Trust
- 1000 Friends of Florida

- Putnam Land Conservancy
- Save the Homosassa River Alliance
- Save the Manatee Club
- Sierra Club Florida Chapter
- Tampa Bay Conservancy
- Tampa Baywatch
- Treasured Lands Foundation

See also



- Endangered species in Florida
- Energy policy in Florida
- Federal land policy
- Federal land ownership by state

External links

- Florida Department of Environmental Protection
- Florida Fish and Wildlife Conservation Commission
- U.S. Environmental Protection Agency

Footnotes

- 1. U.S. Environmental Protection Agency, "Clean Air Act Requirements and History," accessed August 7, 2014
- 2. U.S. Environmental Protection Agency, "Understanding the Clean Air Act," accessed August 7, 2014
- 3. U.S. Environmental Protection Agency, "History of the Clean Air Act," accessed August 7, 2014

4. U.S. Environmental Protection Agency, "Benefits and Costs of Only the first few references on this page are shown above. Click to show

more.

Cleaning Up Toxic Air P February 2, 2016

- 5. U.S. Environmental Pro. Standards (MATS) - Bas
- 6. U.S. Supreme Court, "N June 29, 2015
- 7. CNN.com, "Supreme Cc Air Act " lune 20 2015



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	Municipal Officials	Online Voter Registration	
	School Boards	Ballot Access	

Recalls

GOVERNMENT

U.S. President U.S. Congress U.S. Supreme Court Federal Courts State Executives State Legislatures State Courts State Ballot Measures Local Ballot Measures Municipal Government School Boards Local Courts

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BALLOTPEDIA



MD: If You Have Dark Spots, Do This Immediately (It's Genius!)

Endangered species in Florida

Endangered species policy in Florida involves the identification and protection of endangered and threatened animal and plant species. Policies are implemented and enforced by both the state and federal governments.

HIGHLIGHTS

- As of July 2016, Florida had 124 species—87 endangered species and 37 threatened species—listed under the federal Endangered Species Act (ESA).
- Of these, 64 were animal species and 60 were plant species.

See the tabs below for further information:

- 1. **Background**: This tab provides contextual information about the Endangered Species Act and key terms and concepts.
- Listed species: This tab provides information about endangered and threatened animal and plant species in Florida; information about the process of listing a species as endangered or threatened is also provided.
- Provisions: This tab provides information about legal provisions relating to private and governmental activities.
- 4. **Governance**: This tab provides information about federal and state agencies and, where applicable, state laws.

Background

Overview

See also: History of the Endangered Species Act

The federal Endangered Species Act (ESA) of 1973 provides for the identification, listing, and protection of both threatened and endangered species and their habitats. According to the U.S. Fish and Wildlife Service, the law was designed to prevent the extinction of vulnerable plant and animal species through the development of recovery plans and the protection of critical habitats. ESA administration and enforcement are the responsibility of the U.S. Fish and Wildlife Service and the National Marine Fisheries Service.^{[1][2]}

The law authorizes the Secretary of the Interior to allocate funds to states for assisting in the recovery of threatened and endangered species. The law also created the Cooperative Endangered Species Conservation Fund to award grants to states for voluntary projects on non-federal lands.

The law mandates that states adopt their own endangered and threatened species management programs subject to approval by the federal government. The law requires states to do the following:^{[3][4][3]}



State environmental policy U.S. environmental policy Endangered species policy State endangered

species

Environmental terms

PUBLIC**POL[®]CY**

- 1. Conserve the species of fish or wildlife determined by the state or federal government to be endangered or threatened
- Create conservation programs for all species of fish or wildlife identified by the federal government as endangered or threatened and provide detailed plans for these programs to the U.S. Department of Commerce
- 3. Be authorized by the U.S. Fish and Wildlife Service to conduct investigations to determine the status and requirements for survival of resident species of fish and wildlife
- 4. Be authorized before establishing programs to acquire land or aquatic habitats for conserving endangered or threatened species

Key federal ESA terms

See also: Glossary of Endangered Species Act terms

- Candidate species: Animal and plant species for which the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS) has sufficient information to propose them as endangered or threatened, but for which a proposed listing has not been processed because of higher priority listings.
- Critical habitat: Specific geographic areas, whether occupied by listed species or not, that
 are determined to be essential for the conservation and management of listed species.^[5]
- Delisting: The process of removing an animal or plant species from the threatened or endangered species list upon a determination that threats against it have been sufficiently reduced or eliminated.^[6]
- Endangered species: The classification provided to an animal or plant in danger of extinction within the foreseeable future throughout all or a significant portion of its range.^[7]
- Listed species: Species, subspecies, or a distinct vertebrate population segment that has been added to the federal lists of Endangered and Threatened Wildlife and Plants.^[8]
- Range: The geographic area a species is known or anticipated to occupy.^[9]
- Species recovery: The elimination or reduction in threats to an animal or plant species' survival. Once a species has recovered, it is removed from the federal list of endangered species.^[11]
- Taking a species: Taking a species generally includes causing any harm to a federally
 protected animal or plant species. Any individual that knowingly takes a listed species can
 be fined up to \$25,000 by the federal government for each violation or instance. The text of
 the law outlining federal penalties can be accessed here.^[12]
- Threatened species: Any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

Listed species

Federally listed species in Florida

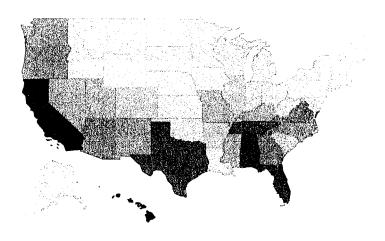
There were 124 endangered and threatened animal and plant species believed to or known to occur in Florida as of July 2016.^[13]

The table below lists the 64 endangered and threatened animal species believed to or known to occur in the state. The word "entire" after a name indicates that the species occurs throughout the state.

Endangered animal species in Florida	[show]				
The table below lists the 60 endangered and threatened plant species believed to or known to occur in the state. ^[14]					
Endangered plant species in Florida	[show]				
The United States contained 2,389 species protected under the Endangered Spe	cies Act as of July				

The United States contained 2,389 species protected under the Endangered Species Act as of July 2016 (this includes the 50 states but not U.S. territories). The map below displays the number of species protected under the Endangered Species Act in each state as of July 2016.^[15]

Number of species protected under the Endangered Species Act by state (as of July 2016)



State-listed species in Florida

The Florida Fish and Wildlife Conservation Commission (FWS) maintains a state list of threatened species and species of special concern. Florida law does not designate species as endangered; rather, Florida designates species as "threatened" if they are at risk of extinction. Threatened species on Florida's state list are all distinct from federally listed species. Species of special concern are species being studied and monitored by the state that are not considered threatened.^[16]

The table below presents the number of state-listed threatened species and species of special concern in Florida by status and species type. A complete list with the names and status of each species can be accessed here.

Status	Fish	Amphibians	Reptiles	Birds	Mammals	Invertebrates	Tota
Threatened		0	7	5	2	0	17
Special concern species	6	4	6	16	6	4	42
Total species	9	4	13	21	8	4	59

Listing a species

Before a species is added to the federal threatened and endangered list, it is first placed on a list of candidate species. This placement happens in two ways. The public may petition to list a species, or biologists at the U.S. Fish and Wildlife Service (FWS) may study a species whose population is thought to be declining and decide themselves whether the species qualifies as a candidate. The law stipulates that FWS scientists must use accurate scientific information collected from several sources to back their candidate decisions.

The U.S. Fish and Wildlife Service applies five criteria to label a species as endangered or threatened:

- the present or threatened destruction, modification, or curtailment of its habitat or range;
 - overutilization for commercial, recreational, scientific, or educational purposes;
 - disease or predation;
 - the inadequacy of existing regulatory mechanisms;
 - other natural or manmade factors affecting its survival.^[17]

"

-U.S. Fish and Wildlife Service^[4]

If one or more of these criteria are met, the agency can begin action to protect the species and its habitat.

"

Petitioning to list a species

See also: Listing petition

Any citizen or group may petition the federal government to list a species as endangered or threatened. The process occurs as follows: $\!\!^{[18]\![19]}$

- Petitioners submit information on the biology, distribution, and threats to a species. The U.S. Fish and Wildlife Service (FWS) and the National Oceanic and Atmospheric Administration (NOAA) Fisheries Office generally must respond to a petition within 90 days.
- Within one year of receiving the petition, the agencies must publish a finding on whether listing a particular species is warranted.



The California condor has been on the U.S. Fish and Wildlife Service's list of endangered species since 1967.

- If the agencies do not meet these timelines, citizens
 and groups are permitted under the Endangered Species Act to sue the agencies to enforce the
 timelines so that the species receives federal protection.
- 4. When a species is listed, the government is required to review its status every five years.

Delisting a species

See also: Delisting a species



The gray whale, which migrates south off the California coast, was removed from the federal endangered species list in 1994 due to recovery. Delisting is the process of removing the endangered or threatened status of species. Downlisting is a reclassification of status by the U.S. Fish and Wildlife Service or the National Oceanic and Atmospheric Administration (NOAA) from endangered to threatened. When the service delists or downlists a species, this generally means that the recovery or conservation of a species has been successful. To delist a species, the agencies must determine that the species is not threatened based on population size, stability of habitat quality and quantity, and control or elimination of threats to the species. Species are also delisted if they become extinct.^{[20][21][22]}

recovery. delisted. Of those species, 34 were delisted due to recovery, 19 species were listed in error (for scientific reasons or because new information about a species was discovered), and 10 species went extinct.^[20]

Provisions

See also: Private property and the Endangered Species Act

Taking a species

The Endangered Species Act makes the taking of an animal on the endangered or threatened species list illegal. According to the act, to *take* is to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct." The U.S. Fish and Wildlife Service further defines *harm* to mean "an act which actually kills or injures wildlife." According to the act, *harassment* of a species is defined as "an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering." State governments may apply further restrictions on the taking of an endangered or threatened species. Any individual that knowingly takes a listed species can be fined up to \$25,000 by the federal government for each violation. The text of the law outlining federal penalties can be accessed here.^{[4][23][24][25]}

Federal law prohibits individuals from engaging in interstate or foreign commerce with a federally protected plant species. Federal law also prohibits taking (e.g., moving, damaging or destroying) a protected plant on federal property. However, individuals may take, move, damage, or destroy a federally protected plant on private land, unless a state law prohibits such activity.^[26]

Private activities requiring permits

In addition to taking a species, delivering, receiving, selling, purchasing, or transporting a threatened or endangered animal species is prohibited without a permit, whether the species is alive or dead. Permits are also required for individual or group activities that involve interfering with a species' habitat. Individuals engaging in activities that might result in the taking of a protected species must abide by a Habitat Conservation Plan (HCP), which includes information on how to mitigate or minimize any impacts to the species or its habitat.^[27]

Regional offices of the U.S. Fish and Wildlife Service (FWS) issue incidental take permits. An incidental take permit is required if an activity may result in the taking of a threatened or endangered species. Those who apply for this permit must submit a habitat conservation plan to the proper federal or state authority ensuring that the effects of taking the species will be minimized and mitigated.

According to the U.S. Fish and Wildlife Service, nearly half of all federally protected threatened and endangered species have at least 80 percent of their habitats on private land. This means that private landowners, which include private citizens, businesses, and organizations, must cooperate with federal agencies to conserve listed species.^[28]

Private parties may be required to work with the Fish and Wildlife Service in the following ways:

- Habitat Conservation Plans (HCPs) are implemented by non-federal groups (state governments, private individuals, and groups) in consultation with the Fish and Wildlife Service. The plans are required in order to obtain incidental take permits. Habitat Conservation Plans contain information on the predicted effects of taking a species, how these effects will be minimized or mitigated, and how the plan will be funded. Meanwhile, the U.S. Fish and Wildlife Service attempts to assure property owners that they will not face additional land restrictions beyond those outlined in their Habitat Conservation Plans. The plans can be applied to listed species, candidate species, species proposed for listing, and non-listed species (usually for the purpose of preventing future listing).^[29]
- Candidate Conservation Agreements are made by the Fish and Wildlife Service with nonfederal property owners to provide incentives for conserving candidate species so that they are not listed as endangered or threatened.^[30]

Affected governmental activities

Federal law requires conservation programs for all listed endangered and threatened species and their habitats. This requirement can affect all federal agencies.

- Consultations are partnerships between the Fish and Wildlife Service and federal agencies. Federal law requires all federal agencies to participate in conserving listed species, stipulating that agency activities must not be "likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats." Consultations can involve recovering the habitats of listed species, addressing threats to listed species from federal programs or actions, and coordinating projects and resources between federal agencies. Examples of federal activities that require require consultations include oil and natural gas drilling on federal land, offshore drilling in areas owned by the federal government, and oil and gas activities affecting wetlands or other waters of the United States.^[31]
- Recovery is a process to halt the decline of endangered or threatened populations by removing or reducing threats. In its recovery efforts, the Fish and Wildlife Service collaborates with federal, state, and local agencies, as well as conservation groups, businesses, private individuals, and volunteers. According to the Fish and Wildlife Service, recovery plans are implemented "to stabilize, recover, and ultimately delist" threatened and endangered species.^[33]

Governance

Federal and state agencies

- The U.S. Fish and Wildlife Service (FWS) is a federal agency responsible for the Endangered Species Act. The agency recovers and conserves endangered or threatened species. The agency also classifies endangered or threatened species. The agency's enacted budget for fiscal year 2014 totaled \$2.79 billion.^{[34][35]}
- The Florida Fish and Wildlife Conservation Commission, created in 1999, regulates the state's fish and wildlife resources, including endangered species. The commission enforces rules applying to fish and wildlife use, conducts research on fish and wildlife populations, and administers programs for the public on hunting and boating safety.^[36]

Federal grants

2015

The table shows the amounts Florida received in Habitat Conservation Program Planning Assistance grants and Recovery Land Acquisition grants in fiscal year 2015. These grants went toward the planning of Habitat Conservation Plans for federally listed species and toward acquiring land for species recovery.^[37]

1 million and a state of the state of the state			2014
Area	Grant	Cost per acre*	Purpose
35 coastal counties statewide	\$750,000	N/A	This grant went toward a final habitat conservation plan for several federally-listed species, including sea turtles, beach mouse species, shorebirds, and others. The conservation plan focused on creating structures along shorelines to protect endangered or threatened species.

"Cost per acre was calculated by dividing the grant cost by the total number of acres conserved. Some funds may have gone to activities other than land acquisition.

Source: U.S. Fish and Wildlife Service, "Recovery Land Acquisition Grants by State (Fiscal Year 2015)"

2014

The table shows the amounts Florida received in Habitat Conservation Program Planning Assistance grants and Recovery Land Acquisition grants in fiscal year 2014. These grants went toward the planning of Habitat Conservation Plans for federally listed species and toward acquiring land for species recovery.^[38]

Federal grants for habitat conservation plans (HCP) and land [show] acquisition in fiscal year 2014

State laws

State law authorized the Florida Fish and Wildlife Conservation Commission "to conserve or improve the status of endangered and threatened species in Florida" in order to reduce the risk of species extinction. The commission must provide a list of endangered and threatened species in the state in its annual plan, which must also indicate how the state plans manage and conserve each species.^[39]



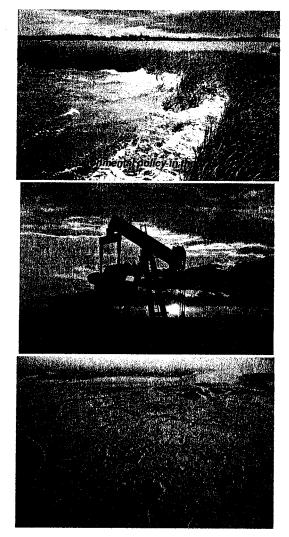
A 2014 federal grant for Florida was used in part to acquire acres protecting the Florida scrub jay as well as Florida panther habitats

Recent news

The link below is to the most recent stories in a Google news search for the terms **Florida endangered species.** These results are automatically generated from Google. Ballotpedia does not curate or endorse these articles.

Endangered species in Florida - Google News

See also



- Environmental policy in Florida
- Endangered Species Act
- Implementation of the Endangered Species Act
- U.S. Fish and Wildlife Service
- Endangered species

External links

- Text of the Endangered Species Act
- U.S. Fish and Wildlife Service website
- U.S. National Oceanic and Atmospheric Service
- Florida Fish and Wildlife Conservation Commission

Footnotes

- 1. U.S. Fish and Wildlife Service, "Improving ESA Implementation," accessed May 15, 2015
- 2. U.S. Fish and Wildlife Service, "ESA Overview," accessed October 1, 2014
- Cornell University Law School, "16 U.S. Code, Section 1535 (Endangered Species Act)," accessed September 26, 2014
- 4. U.S. Fish and Wildlife Service, "ESA Basics," accessed September 26, 2014
- 5. U.S. Fish and Wildlife Service, "Candidate Species: Section 4 of the Endangered Species Act," accessed November 1, 2015
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- 6. U.S. Fish and Wildlife S
- Act," accessed August 2
- 7. U.S. Fish and Wildlife S
- 8. U.S. Fish and Wildlife S Plans," accessed Decer
- 9. U.S. Fish and Wildlife S
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- 11 II 9 Fich and Wildlifa 9



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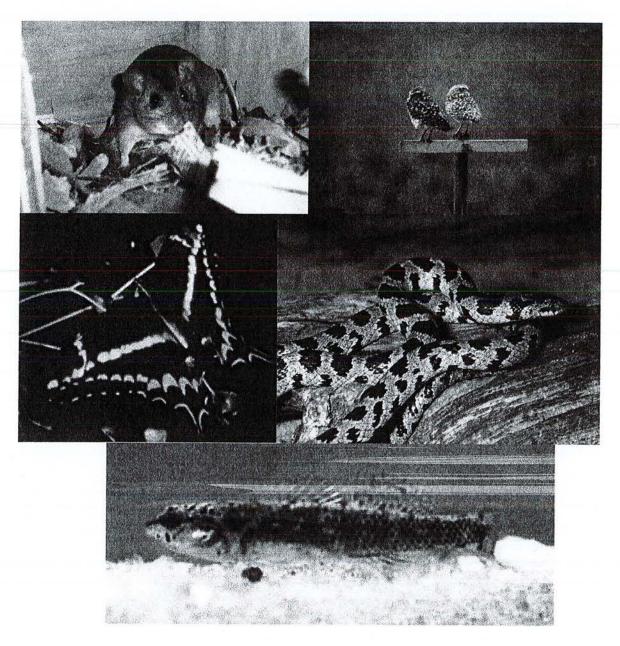
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FLORIDA'S ENDANGERED AND THREATENED SPECIES



Updated December 2018

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION Page intentionally left blank.

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PREFACE

This document provides a table and list of the State of Florida's imperiled species of wildlife. It includes species listed at the Federal level as Endangered, Threatened, Threatened Due to Similarity of Appearance, or Non-Essential Experimental by the U. S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS). It also includes species listed at the State level as State-designated Threatened and Species of Special Concern by the Florida Fish and Wildlife Conservation Commission (FWC).

FWC is a constitutional agency, and its authority to regulate and manage most wildlife comes from the Florida constitution. FWC was created by a 1998 amendment to the State of Florida constitution merging the former Game and Fresh Water Fish Commission (GFC), a constitutional agency, the former Marine Fisheries Commission, and certain parts of the Florida Department of Environmental Protection (FDEP), both statutory agencies. At the time of the merger, there were several wildlife species, not under the constitutional authority of the GFC, for which the Florida Legislature had given some statutory authority to regulate and manage to FDEP. The authority for FWC to regulate and manage these species, listed in Rule 68A-27.0031, Florida Administrative Code (F.A.C.), comes from this statutory authority, not constitutional authority. These species are included in this document for the convenience of the user, but they are not included in rules codifying the Florida Endangered and Threatened Species List (Rule 68A-27.003, F.A.C.) or the Species of Special Concern list (Rule 68A-27.005, F.A.C.). The Federal listing status of these species shown in Rule 68A-27.0031 is that of the species in 1998 and does not reflect any status changes since that time. However, the status of these species in *this* document *does* reflect their status as of the date of this document.

In November 2010, FWC established an imperiled species management system and revised its imperiled species rules

(https://www.flrules.org/gateway/ChapterHome.asp?Chapter=68A-27). All species listed by the USFWS and NMFS that occur in Florida are now included on Florida Endangered and Threatened Species List as Federally-designated Endangered, Federally-designated Threatened, Federally-designated Threatened Due to Similarity of Appearance, or Federally-designated Non-Essential Experimental population species. Species listed by the FWC are included on the Florida Endangered and Threatened Species List as State-designated Threatened species.

The revised imperiled species management system abolishes the species of special concern (SSC) category once all species on that list are reclassified as State-designated Threatened, found to not meet any of the State's listing criteria or become Federally listed. Until then, the FWC will continue to maintain a separate Species of Special Concern list. These species are included in this document.

The State lists of plants, which are designated Endangered, Threatened, and Commercially Exploited, are administered and maintained by the Florida Department of Agriculture and Consumer Services (DOACS) via Chapter 5B-40, F.A.C. This list of plants can be obtained at <u>http://www.freshfromflorida.com/Divisions-Offices/Florida-Forest-Service/Our-Forests/Forest-Health/Florida-Statewide-Endangered-and-Threatened-Plant-Conservation-Program/Florida-s-Federally-Listed-Plant-Species.</u>

The Federal list of Endangered and Threatened animals and plants is administered by the USFWS and is published in 50 CFR 17 (animals) and 50 CFR 23 (plants). Additional information regarding Federal listings can be located at the following websites; NMFS - http://www.nmfs.noaa.gov/pr/species/esa/listed.htm and

USFWS - http://ecos.fws.gov/tess_public/reports/ad-hoc-species-

report?kingdom=V&kingdom=I&status=E&status=T&status=EmE&status=EmT&status=EXPE &status=EXPN&status=SAE&status=SAT&mapstatus=3&fcrithab=on&fstatus=on&fspecrule=o n&finvpop=on&fgroup=on&header=Listed+Animals.

Common and scientific names listed first are as they appear in the Florida Administrative Code, Title 68A. Common and/or scientific names following this and located within parentheses () are names as used by USFWS, or other commonly used names.

Bradley J. Gruver, Ph. D., SCP Section Leader Natalie Montero, Assistant Listed Species Coordinator Species Conservation Planning Section Division of Habitat and Species Conservation Florida Fish and Wildlife Conservation Commission

Cover Photos by FWC Staff: Key Largo Woodrat, Burrowing Owls, Okaloosa Darter, Schaus' swallowtail butterfly, Short-tailed Snake.

NUMERICAL SUMMARY OF SPECIES

Listed by the State of Florida as Federally-designated Endangered (FE), Federally-designated Threatened (FT), Federally-designated Threatened due to Similarity of Appearance [FT(S/A)], Federal Non-Essential Experimental Population (FXN), State-designated Threatened (ST), or State Species of Special Concern (SSC).

STATUS DESIGNATION	FISH	AMPHIBIANS	REPTILES	BIRDS	MAMMALS	INVERTEBRATES	TOTAL
FE	3(1) ¹	1	3(3)	8	$21(5)^2$	14	50(9)
FT	4(1)	1	7(2)	6	2(1)	16	36(4)
FT(S/A)	0	0	1	0	0	3	4
FXN	0	0	0	1	0	0	1
ST	6	2	9	16	4	2	39
SSC	0	0	0	0	0	1	1
TOTAL	13(2)	4	20(5)	31	27 (6)	36	131(13)

¹ Numbers in the parentheses are the number of species for which the FWC does not have constitutional authority. The status in Rule 68A-27.0031 is the Federal status these species had when the FWC was created by amendment to the Florida Constitution, adopted in 1998. The status of these species listed in here is their current Federal status as of December 2018.

² There is one additional species included in Rule 68A-27.0031 as a species for which the FWC does not have constitutional authority. This species is not included here because it has been determined to be extinct.

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FLORIDA'S ENDANGERED AND THREATENED SPECIES LIST

VERTEBRATES

FISH

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Common Name	Scientific Name	Status
Atlantic sturgeon	Acipenser oxyrinchus oxyrinchus	FE
Blackmouth shiner	Notropis melanostomus	ST
Bluenose shiner	Pteronotropis welaka	ST
Crystal darter	Crystallaria asprella	ST
Giant manta ray	Manta birostris	FT
Gulf sturgeon	Acipenser oxyrinchus [=oxyrhynchus]	FT ¹
	desotoi	
Key silverside	Menidia conchorum	ST
Nassau grouper	Epinephelus striatus	FT
Okaloosa darter	Etheostoma okalossae	FT
Saltmarsh topminnow	Fundulus jenkinsi	ST
Shortnose sturgeon	Acipenser brevirostrum	FE ¹
Smalltooth sawfish	Pristis pectinate	FE
Southern tessellated darter	Etheostoma olmstedi maculaticeps	ST

AMPHIBIANS

Common Name	Scientific Name	Status
Florida bog frog	Lithobates okaloosae	ST
Frosted flatwoods salamander	Ambystoma cingulatum	FT
Georgia blind salamander	Eurycea wallacei	ST
Reticulated flatwoods	Ambystoma bishopi	FE
salamander		

REPTILES

Common Name	Scientific Name	Status
American alligator	Alligator mississippiensis	FT(S/A)
American crocodile	Crocodylus acutus	FT
Atlantic salt marsh snake	Nerodia clarkii taeniata	FT
Barbour's map turtle	Graptemys barbouri	ST
Bluetail mole skink	Plestiodon egregius lividus	FT
Eastern indigo snake	Drymarchon corais couperi	FT
Florida brown snake	Storeria victa	ST ³

Common Name	Scientific Name	Status
Florida Keys mole skink	Plestiodon egregius egregius	ST
Florida pine snake	Pituophis melanoleucus mugitus	ST
Gopher tortoise	Gopherus polyphemus	ST
Green sea turtle	Chelonia mydas	FT ¹
Hawksbill sea turtle	Eretmochelys imbricata	FE ¹
Kemp's ridley sea turtle	Lepidochelys kempii	FE ¹
Key ringneck snake	Diadophis punctatus acricus	ST
Leatherback sea turtle	Dermochelys coriacea	FE ¹
Loggerhead sea turtle	Caretta caretta	FT ¹
Rim rock crowned snake	Tantilla oolitica	ST
Sand skink	Plestiodon reynoldsi	FT
Short-tailed snake	Lampropeltis extenuate	ST
Suwannee alligator snapping turtle	Marcochelys suwanniensis	ST

<u>BIRDS</u>

Common Name	Scientific Name	Status
American oystercatcher	Haematopus palliatus	ST
Audubon's crested caracara	Polyborus plancus audubonii	FT
Bachman's wood warbler	Vermivora bachmanii	FE
Black skimmer	Rynchops niger	ST
Cape Sable seaside sparrow	Ammodramus maritimus mirabilis	FE
Eskimo curlew	Numenius borealis	FE
Everglade snail kite	Rostrhamus sociabilis plumbeus	FE
Florida burrowing owl	Athene cunicularia floridana	ST
Florida grasshopper sparrow	Ammodramus savannarum floridanus	FE
Florida sandhill crane	Antigone canadensis pratensis	ST
Florida scrub-jay	Aphelocoma coerulescens	FT
Ivory-billed woodpecker	Campephilus principalis	FE
Kirtland's warbler (Kirtland's wood warbler)	Setophaga kirtlandii (Dendroica kirtlandii)	FE
Least tern	Sternula antillarum	ST
Little blue heron	Egretta caerulea	ST
Marian's marsh wren	Cistothorus palustris marianae	ST
Piping plover	Charadrius melodus	FT
Red-cockaded woodpecker	Picoides borealis	FE

Common Name	Scientific Name	Status
Reddish egret	Egretta rufescens	ST
Roseate spoonbill	Platalea ajaja	ST
Roseate tern	Sterna dougallii dougallii	FT
Rufa red knot	Calidris canutus rufa	FT
Scott's seaside sparrow	Ammodramus maritimus peninsulae	ST
Snowy plover	Charadrius nivosus	ST
Southeastern American kestrel	Falco sparverius paulus	ST
Tricolored heron	Egretta tricolor	ST
Wakulla seaside sparrow	Ammodramus maritimus juncicola	ST
White-crowned pigeon	Patagioenas leucocephala	ST
Whooping crane	Grus americana	FXN
Worthington's marsh wren	Cistothorus palustris griseus	ST
Wood stork	Mycteria americana	FT

MAMMALS

Common Name	Scientific Name	Status	
Anastasia Island beach mouse	Peromyscus polionotus phasma	FE	
Big Cypress fox squirrel	Sciurus niger avicennia	ST	
Choctawhatchee beach mouse	Peromyscus polionotus allophrys	FE	
Everglades mink	Neovison vison evergladensis	ST	
Finback whale	Balaenoptera physalus	FE ¹	
Florida bonneted bat	Eumops floridanus	FE	
Florida panther	Puma [=Felis] concolor coryi	FE	
Florida salt marsh vole	Microtus pennsylvanicus dukecampbelli	FE	
Gray bat	Myotis grisescens	FE	
Gray wolf	Canis lupus	FE ²	
Humpback whale	Megaptera novaeangliae	FE ¹	
Indiana bat	Myotis sodalis	FE	
Key deer	Odocoileus virginianus clavium	FE	
Key Largo cotton mouse	Peromyscus gossypinus allapaticola	FE	
Key Largo woodrat	Neotoma floridana smalli	FE	
Lower Keys rabbit	Sylvilagus palustris hefneri	FE	
North Atlantic right whale	Eubalaena glacialis	FE ¹	
Perdido Key beach mouse	Peromyscus polionotus trissyllepsis	FE	
Red wolf	Canis rufus	FE	

Common Name	Scientific Name	Status
Rice rat	Oryzomys palustris natator	FE ³
Sanibel Island rice rat	Oryzomys palustris sanibeli	ST
Sei whale	Balaenoptera borealis	FE ¹
Sherman's short-tailed shrew	Blarina shermani	ST
Southeastern beach mouse	Peromyscus polionotus niveiventris	FT
Sperm whale	Physeter macrocephalus	FE ¹
St. Andrew beach mouse	Peromyscus polionotus peninsularis	FE
West Indian manatee (Florida manatee)	Trichechus manatus (Trichechus manatus latirostris)	FT ¹

INVERTEBRATES

<u>CORALS</u>

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Common Name	Scientific Name	Status
Boulder star coral	Orbicella franksi	FT
Elkhorn coral	Acropora palmata	FT
Lobed star coral	Orbicella annularis	FT
Mountainous star coral	Orbicella faveolata	FT
Pillar coral	Dendrogyra cylindricus	FT
Rough cactus coral	Mycetophyllia ferox	FT
Staghorn coral	Acropora cervicornis	FT

CRUSTACEANS

Common Name	Scientific Name	Status
Black Creek crayfish	Procambarus pictus	ST
Panama City crayfish	Procambarus econfinae	SSC
Santa Fe cave crayfish	Procambarus erythrops	ST
Squirrel Chimney Cave shrimp	Palaemonetes cummingi	FT

INSECTS

Common Name	Scientific Name	Status
American burying beetle	Nicrophorus americanus	FE
Bartram's scrub-hairstreak	Strymon acis bartrami	FE
Cassius blue butterfly	Leptotes cassius theonus	FT(S/A)

Common Name	Scientific Name	Status	
Ceraunus blue butterfly	Hemiargus ceraunus antibubastus	FT(S/A)	
Florida leafwing	Anaea troglodyta floridalis	FE	
Miami blue butterfly	Cyclargus thomasi bethunebakeri	FE	
Miami tiger beetle	Cicindelidia floridana	FE	
Nickerbean blue butterfly	Cyclargus ammon	FT(S/A)	
Schaus swallowtail butterfly	Heraclides aristodemus ponceanus	FE	

MOLLUSKS

Common Name	Scientific Name	Status
Chipola slabshell (mussel)	Elliptio chiplolaensis	FT
Choctaw bean	Villosa choctawensis	FE
Fat threeridge (mussel)	Amblema neislerii	FE
Fuzzy pigtoe	Pleurobema strodeanum	FT
Gulf moccasinshell (mussel)	Medionidus penicillatus	FE
Narrow pigtoe	Fusconaia escambia	FT
Ochlockonee moccasinshell (mussel)	Medionidus simpsonianus	FE
Oval pigtoe (mussel)	Pleurobema pyriforme	FE
Purple bankclimber (mussel)	Elliptoideus sloatianus	FT
Round ebonyshell	Fusconaia rotulata	FE
Shinyrayed pocketbook (mussel)	Lampsilis subangulata	FE
Southern kidneyshell	Ptychobranchus jonesi	FE
Southern sandshell	Hamiota australis	FT
Stock Island tree snail	Orthalicus reses [not incl. nesodryas]	FT
Suwannee moccasinshell	Medionidus walkeri	FT
Tapered pigtoe	Fusconaia burki	FT

KEY TO ABBREVIATIONS AND NOTATIONS

List Abbreviations

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List Notations

- ¹ A species for which the FWC does not have constitutional authority.
- ² Not documented in Florida.
- ³ Lower Keys population only.

LISTING CHANGES SINCE 2010

The Florida black bear was removed from Florida's Endangered and Threatened Species List on August 23, 2012 after approval by the Commission at the June 2012 Commission meeting. A new Florida Black Bear Management Plan was also approved at this meeting.

The Miami blue butterfly was emergency listed as Endangered by the USFWS on August 10, 2011. On April 6, 2012, the Miami blue was officially listed as Endangered by the USFWS. Effective September 19, 2012 the FWC listed the Miami blue butterfly as Federally-designated Endangered on Florida's Endangered and Threatened Species List.

The Cassius blue butterfly, ceraunus blue butterfly, and nickerbean blue butterfly were emergency listed as Threatened Due to Similarity of Appearance to the Miami blue by the USFWS on August 10, 2011. On April 6, 2012, these three species were officially listed as Threatened Due to Similarity of Appearance to the Miami blue by the USFWS. These three species were listed on Florida's Endangered and Threatened Species List as Federally-designated Threatened by Similarity of Appearance to the Miami blue butterfly effective September 19, 2012, and as such only the following prohibitions apply to these three species:

- a. Incidental take, that is, take that results from, but is not a purpose of, carrying out an otherwise lawful activity will not apply to cassius blue butterfly, ceraunus blue butterfly, and nickerbean blue butterfly.
- b. Collection of the cassius blue butterfly, ceraunus blue butterfly, and nickerbean blue butterfly is prohibited in coastal counties south of Interstate 4 and extending to the boundaries of the State of Florida at the endpoints of Interstate 4 at Tampa and Daytona Beach. Specifically, such activities are prohibited in the following counties: Brevard, Broward, Charlotte, Collier, De Soto, Hillsborough, Indian River, Lee, Manatee, Pinellas, Sarasota, St. Lucie, Martin, Miami-Dade, Monroe, Palm Beach, and Volusia

The Okaloosa darter was reclassified by the USFWS effective May 2, 2011 from Endangered to Threatened. A special rule under Section 4d of the Endangered Species Act was also adopted that allows Eglin Air Force Base to continue activities with a reduced regulatory burden and will provide a net benefit to the Okaloosa darter. FWC reclassified the darter from Federally-designated Endangered to Federally-designated Threatened on September 19, 2012.

The Atlantic sturgeon was listed as Endangered by the NMFS on April 6, 2012. FWC reclassified the fish from Species of Special Concern to Federally-designated Endangered on September 19, 2012.

On October 10, 2012, the USFWS listed the round ebonyshell, southern kidneyshell, and Choctaw bean as Endangered. All three muscles were listed as Federally-designated Endangered by the FWC on June 10, 2015.

The USFWS listed the tapered pigtoe, narrow pigtoe, southern sandshell, and fuzzy pigtoe as Threatened on October 12, 2012. All four mussels were listed as Federally-designated Threatened by the FWC on June 10, 2015.

The Florida bonneted bat was listed as Endangered by the USFWS on October 2, 2013 after receiving a petition for emergency listing in January 2010. FWC reclassified this bat species from State-designated Threatened to Federally-designated Endangered on June 10, 2015.

The wood stork was reclassified by the USFWS on June 30, 2014, from Endangered to Threatened. FWC reclassified the wood stork to Federally-designated Threatened on June 10, 2015.

The Florida leafwing and Bartram's scrub-hairstreak butterfly were listed as Endangered by the USFWS on September 11, 2014. Both species were listed by the FWC as Federally-designated Endangered on June 10, 2015.

The pillar coral was listed as Threatened by the USFWS on November 13, 2014. FWC reclassified the coral from State-designated Threatened to Federally-designated Threatened on June 10, 2015.

The rufa red knot was listed as Threatened by USFWS on January 12, 2015, and listed by FWC as Federally-designated Threatened on June 10, 2015.

The Miami tiger beetle was listed as Endangered by the USFWS on November 4, 2016 and listed by FWC as Federally-designated Endangered on or about June 12, 2017.

The Suwannee moccasinshell was listed as Threatened by the USFWS on November 7, 2016 and listed by FWC as Federally-designated Threatened on or about June 12, 2017.

On January 11, 2017, the State listing status changes that were proposed in 2011 as part of the newly implemented imperiled species management system became official after the approval of Florida's Imperiled Species Management Plan by FWC Commissioners.

- 15 species were removed from Florida's Endangered and Threatened Species List: Eastern chipmunk, Florida mouse, brown pelican, limpkin, snowy egret, white ibis, peninsula ribbon snake (Lower Keys population), red rat snake Lower Keys population), striped mud turtle (Lower Keys population), Suwannee cooter, gopher frog, Pine Barrens tree frog, Lake Eustis pupfish, mangrove rivulus, and Florida tree snail.
- 23 species changed from State-designated Species of Special Concern to State-designated Threatened species: Sherman's short-tailed shrew, Sanibel rice rat, little blue heron, tricolored heron, reddish egret, roseate spoonbill, American oystercatcher, black skimmer, Florida burrowing owl, Marian's marsh wren, Worthington's Marsh wren, Scott's seaside sparrow, Wakulla seaside sparrow, Barbour's map turtle, Florida Keys mole skink, Florida pine snake, Georgia blind salamander, Florida bog frog, bluenose shiner, saltmarsh top minnow, Southern tessellated darter, Santa Fe crayfish, and Black Creek crayfish.
- 14 species maintain their State-designated Threatened status: Everglades mink, Big Cypress fox squirrel, Florida sandhill crane, snowy plover, least tern, white-crowned pigeon, Southeastern American kestrel, Florida brown snake (Lower Keys population), Key ringneck snake, short-tailed snake, rim rock crowned snake, Key silverside, blackmouth shiner, and crystal darter. Six species remain listed as State-designated

Species of Special Concern: (list species): Homosassa shrew, Sherman's fox squirrel, osprey (Monroe County population), alligator snapping turtle, Panama City crayfish, and harlequin darter.

On December 23, 2018, the State listing status changes that were proposed in 2011 as part of the newly implemented imperiled species management system became official after the approval of Florida's Imperiled Species Management Plan by FWC Commissioners.

- Four species were removed from Florida's Endangered and Threatened Species List as State Species of Special Concern: Harlequin darter, Osprey (Monroe County population), Homosassa shrew, and Sherman's fox squirrel.
- The Alligator snapping turtle was taxonomically reclassified into three subspecies. The Suwannee alligator snapping turtle was listed as a State-designated Threatened species.
- Two species were listed as Federally-designated Threatened species: Giant manta ray and Nassau grouper.
- Four species had changes in their scientific names: Short tailed snake, Bluetail mole skink, Florida Keys mole skink, and Sand skink.

Endangered Species Act listing of four South Florida plants

October 5, 2017

What action is the U.S. Fish and Wildlife Service taking?

The Service is publishing a final rule to list four south Florida plants under the <u>Endangered Species Act (ESA)</u>. The <u>Everglades bully</u>, <u>Florida pineland</u> <u>crabgrass</u>, and <u>pineland sandmat</u> are listed as threatened and the <u>Florida prairie-clover</u> is listed as endangered.

Why is the Service

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proposing these actions?

The Service has determined that each of these plants is currently at risk throughout all of their range, primarily because of habitat loss and modification, and because the populations are small, isolated, and have limited to no potential for recolonization. Sea level rise also is a concern. Impacts from various threats are ongoing and increasing, and place the four plants in danger of extinction now, or in the foreseeable future. The Florida prairieclover is being listed as endangered because it is presently in danger of extinction. The Everglades bully, Florida pineland crabgrass, and pineland sandmat are being listed as threatened because they are likely to become endangered within the foreseeable future.

What are the

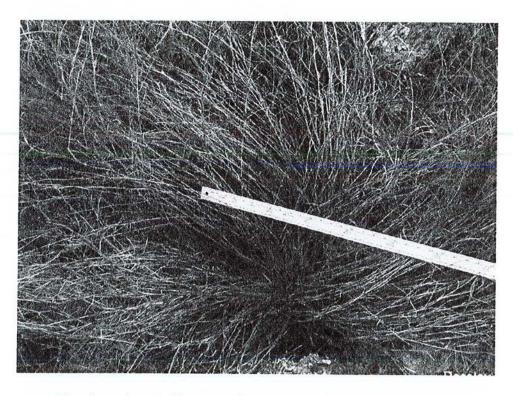
characteristics of these plants?

Everglades bully is a perennial single or many-stemmed shrub that grows to about three to six feet tall, with white flowers. It is found in pine rocklands, marl prairies, and within the ecotone between both habitats. The current range of this species consists of 10 populations in Miami-Dade County, including Everglades National Park (ENP), and an additional small population within Lostman's Pines region of Big Cypress National Preserve (BCNP) in Monroe County (mainland only).



Everglades bully. Photo by Fairchild Tropical Botanic Garden.

Florida pineland crabgrass is a small perennial clumping grass, blue-green to gray in color with hairy, reddish-brown stems. The plant's flowers are dull green and very small. It is found in pine rocklands, marl prairies, and within the ecotone between both habitats. Florida pineland crabgrass lives only within the Long Pine Key region of ENP (Miami-Dade County) and the Lostman's Pines region of BCNP (mainland Monroe County). The species had disappeared from historic Miami-Dade County locations adjacent to ENP, due largely to habitat loss.

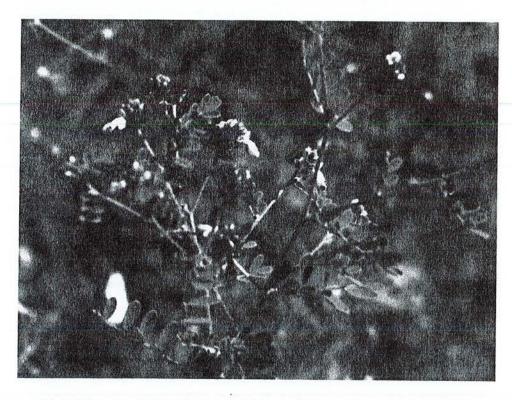


Pineland sandmat. Photo by Fairchild Tropical Botanic Garden.

Pineland sandmat is a small perennial herb, with greenish oval-shaped leaves and reddish stems. The extensive root system of pine sandmat indicates that it is a longlived plant. The species will flower and fruit year-round, with peaks in the fall, as well as after stimulation after fire. This species can be found in pine rocklands, marl prairies, and within the ecotone between both habitats in Miami-Dade County. The current range of this species consists of 20 populations in Miami-Dade County, including ENP. One historical population in Miami-Dade County (Larry and Penny Thompson Park) has disappeared due largely to habitat loss.

Florida prairie-clover is a perennial shrub that grows to about three to six feet tall, with a light brown woody stem and nonwoody, light brown or reddish branches. Its flowers are whitish, but turn maroon with age. Fruit is produced small, hairy, oneseeded pods. This species can be found in pine rocklands, rockland hammocks, marl prairies, adjacent roadsides and within the ecotone between these habitats. Florida prairie-clover is found within BCNP Endangered Species Act listing of four South Florida plants | U.S. Fish & Wildlife Service

(mainland Monroe County), as well as seven locations in Miami-Dade County (including one reintroduction site, Virginia Key). Florida prairie-clover has disappeared from four historical locations within Miami-Dade County, including ENP. In addition, the subspecies has disappeared from at least one location in Palm Beach.



Florida prairie-clover. Photo by Fairchild Tropical Botanic Garden.

What criteria did the Service use to determine if these plants should be listed as endangered or threatened?

Under the ESA, the Service can determine that a species is endangered or threatened based on any of five factors: (A) The present or threatened destruction, modification, or curtailment of its habitat or range; (B) Overutilization for commercial, recreational, scientific, or educational purposes; © Disease or predation; (D) The inadequacy of existing regulatory mechanisms; or (E) Other natural or manmade factors affecting its continued existence.

We have determined that the threats to these four plants consists primarily of habitat loss and modification through urban and agricultural development, and Endangered Species Act listing of four South Florida plants | U.S. Fish & Wildlife Service

lack of adequate fire management (Factor A); proliferation of nonnative invasive plants, random events, such as hurricanes and storm surges, maintenance practices used on roadsides and disturbed sites, and sea level rise (Factor E); and the inadequacy of existing regulations to reduce these threats (Factor D).

What does listing these plants under the ESA mean for them?

Listed plants are not protected from take, although it is illegal to collect or maliciously harm them on federal land, or any lands during the commission of a crime, including trespassing. The plants also are protected from commercial trade. In addition, states may have their own laws restricting activities involving listed plants.

ARE SOME PLANT POPULATIONS ON PRIVATE LAND? IF SO, WHAT DOES THE LISTING OF THESE FOUR PLANTS MEAN FOR A PRIVATE LANDOWNER?

Yes, some of the plants are on private land. Unless the private property owner modifies his property in some way that requires a federal permit or federal funding, there is no impact to the landowner under federal law. However, any local and/or state laws that apply to this plant species would apply.

How does the fact that one of these species is found within the

Richmond Pine Rockland area of Miami affect the Coral Reef Commons and Miami Wild construction projects?

It is not prohibited by the ESA to destroy, damage or move protected plants unless such activities involve an endangered/threatened species on federal land or if the action occurs in violation of state laws. If a person wishes to develop private land, with no federal jurisdiction involved, in accordance with state law, then the potential destruction, damage, or movement of endangered or threatened plants does not violate the ESA. At present, only Everglades bully is known to occur within the Richmond Pine Rocklands, while Florida pineland crabgrass was known to occur there historically.

Is the Service planning to designate critical habitat for these four plants?

The Service will likely publish a proposed rule designating critical habitat for these plants in the future.

What is the Multi-District Litigation (MDL) workplan?

In 2011, in an effort to improve implementation of the ESA, the Service submitted to the U.S. District Court for the District of Columbia, a multi-year listing work plan that will enable the agency to systematically, over a period of six years, review and address the needs of more than 250 species listed in the 2010 Candidate Notice of Review, to determine if they

should be added to the federal list of endangered and threatened species. These listings are part of that workplan.

Tags

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Florida Pineland Crabgrass

Florida Prairie-Clover

Pineland Sandmat

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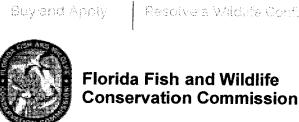
From: And Son, Tei Handback States and County Subject: List of endangered plant species found in Broward County Date: February 6, 2020 at 4:00 PM To: Ronald Coles rrclegal@yahoo.com Cc: Terrard, Kathan

Scientific Name	Common Name	Family
Adiantum tenerum	BRITTLE MAIDENHAIR	PTERIDACEAE
Aristolochia pentandra	MARSH'S DUTCHMAN'S-PIPE	ARISTOLOCHIACEA
Asclepias curtissii	CURTISS' MILKWEED	APOCYNACEAE
Asplenium dentatum	TOOTHED SPLEENWORT; SLENDER SPLEENWORT	ASPLENIACEAE
Asplenium serratum	WILD BIRDNEST FERN; BIRD'S-NEST SPLEENWORT	ASPLENIACEAE
Catopsis floribunda	FLORIDA STRAP AIRPLANT; MANY-FLOWERED AIRPLANT	BROMELIACEAE
Ctenitis sloanei	FLORIDA TREE FERN; RED-HAIR COMB FERN	DRYOPTERIDACEAE
Ctenitis submarginalis	BROWN-HAIR COMB FERN	DRYOPTERIDACEAE
Cyperus pedunculatus	BEACHSTAR	CYPERACEAE
Eltroplectris calcarata	LONGCLAW ORCHID; SPURRED NEOTTIA	ORCHIDACEAE
Epidendrum anceps	DINGY-FLOWERED STAR ORCHID; DINGY-FLOWERED EPIDENDRUM	ORCHIDACEAE
Epidendrum nocturnum	NIGHT-SCENTED ORCHID; NIGHT-SCENTED EPIDENDRUM	ORCHIDACEAE
Epidendrum rigidum	STIFF-FLOWER STAR ORCHID; RIGID EPIDENDRUM	ORCHIDACEAE
Euphorbia cumulicola	COASTAL DUNE SANDMAT; SAND DUNE SPURGE	EUPHORBIACEAE
<u>Glandularia maritima</u>	COASTAL MOCK VERVAIN	VERBENACEAE
Heliotropium gnaphalodes	SEA ROSEMARY; SEA LAVENDER	BORAGINACEAE
Jacquemontia pentanthos	SKYBLUE CLUSTERVINE	CONVOLVULACEAE
Jacquemontia reclinata	BEACH CLUSTERVINE; BEACH JACQUEMONTIA	CONVOLVULACEAE
<u>Lantana</u> depressa var. floridana		VERBENACEAE
Lechea divaricata	DRYSAND PINWEED; SPREADING PINWEED	CISTACEAE
Lippia stoechadifolia	SOUTHERN FOGFRUIT; SOUTHERN MATCHSTICKS	VERBENACEAE
<u>Nemastylis floridana</u>	CELESTIAL LILY; FALLFLOWERING IXIA; HAPPYHOUR FLOWER	IRIDACEAE
<u>Okenia hypogaea</u>	BURROWING FOUR-O'CLOCK; BEACH PEANUT	NYCTAGINACEAE
Ophioglossum palmatum	HAND FERN	OPHIOGLOSSACEAE
Passiflora pallens	PINELAND PASSIONFLOWER; PINELAND PASSIONVINE	PASSIFLORACEAE
<u>Pecluma</u> ptilota var. bourgeauana	COMB POLYPODY; SWAMP PLUME POLYPODY; PALMLEAF ROCKCAP FERN	POLYPODIACEAE
Peperomia obtusifolia	FLORIDA PEPEROMIA; BABY RUBBERPLANT	PIPERACEAE
Pleopeltis astrolepis	STAR-SCALE POLYPODY; STAR-SCALED FERN	POLYPODIACEAE
Polygala smallii	SMALL'S MILKWORT; TINY POLYGALA	POLYGALACEAE
Polystachya concreta	GREATER YELLOWSPIKE ORCHID; PALE-FLOWERED POLYSTACHYA	ORCHIDACEAE
Spiranthes torta	SOUTHERN LADIESTRESSES	ORCHIDACEAE
Tephrosia angustissima var. curtissii	CURTISS' HOARYPEA	FABACEAE
Thelypteris reptans	CREEPING STAR-HAIR FERN	THELYPTERIDACEAE
Thelypteris reticulata	LATTICE-VEIN FERN	THELYPTERIDACEAE

Tillandsia fasciculata	CARDINAL AIRPLANT; COMMON WILD PINE; STIFF- LEAVED WILD PINE	
<u>Tillandsia utriculata</u>	LEAVED WILD PINE GIANT AIRPLANT; GIANT WILD PINE	BROMELIACEAE
Trichostigma octandrum Zanthovylum	HOOPVINE	BROMELIACEAE
Zanthoxylum spinosum	BISCAYNE PRICKLYASH; LEATHERY PRICKLYASH	PHYTOLACCACEAE
	HICKLYASH	RUTACEAE

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Resolve a Wildlife Conflict Engaging in Conservation Things To Do

Places To Ge

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Site Search

Burrowing Owl

Athene cunicularia

Species Status

Native Imperiled

Listing Status

- Federal Status: Not Listed
- FL Status: State-designated Threatened
- FNAI Ranks: G4T3/S3 (Globally: Apparently Secure, Sub sp. Rare/ State: Rare)
- IUCN Status: LC (Least Concern)

Appearance:

⁺ Burrowing Owl | FWC



The burrowing owl is one of the smallest owls in Florida. It car reach a length of nine inches (22.9 centimeters) with a wingspan of 21 inches (53.3 centimeters). Burrowing owls have brown dorsal (back) feathers with patches of white spots, and white underside with brown bar-shaped spots. The body colo pattern helps them blend in with the vegetation in their habita and avoid predation (Millsap 1996). They also have large yello eyes and a white chin.

The burrowing owl is a pint-sized bird that lives in open,

treeless areas. The burrowing owl spends most of its time on the ground, where its sandy brown plumage provides camouflage from potential predators. One of Florida's smallest owls, it averages nine inches in height with a wingspan of 21 inches. The burrowing owl lacks the ear tufts of the more familiar woodland owls. Bright yellow eyes and a white chin accent the face. Unusually long legs provide additional height for a better view from its typical ground-level perch.

Behavior

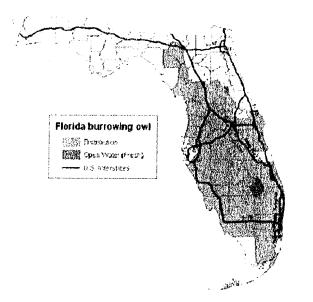
The diet of the burrowing owl primarily consists of insects; however, they will also feed on snakes, frogs, small lizards, birds, and rodents.

The typical breeding season for the Florida burrowing owl is February 15 to July 10, though owls can breed earlier or later. Nesting occurs in burrows in the ground that they dig. These burrows will be maintained and used again the following year (Haug et al. 1993). Females lay up to eight eggs within a one-week period, and they will incubate the eggs for up to 28 days. Once the white-feathered juveniles are born, it takes two weeks before they are ready and able to appear out of the burrow. Juveniles will begin learning how to fly at four weeks, but will not be able to fly well until they are six weeks old. Juveniles will stay with the parents until they are able to self-sustain at 12 weeks old.

Burrowing owls are different than other owls as they are active during the day time (diurnal) rather than at night (nocturnal) during breeding season. During the non-breeding season, they become more nocturnal.

Habitat

Burrowing owls inhabit open prairies in Florida that have very little understory (floor) vegetation. These areas include golf courses, airports, pastures, agriculture fields, and vacant lots. The drainage of wetlands, although detrimental to many organisms, increases the areas of habitat for the burrowing owl. The range c the burrowing owl is throughout the peninsular of Florida in patches and localized areas. Burrowing owls can also be found in the Bahamas (Florida Natural Areas Inventory 2001).



Threats

The burrowing owl faces many threats to its population. The main threat is the continued loss of habitat. Threats to habitat include construction activities development and harassment by humans and domesticated animals. Heavy floods can destroy burrows in the ground, which can cause the destruction (eggs and young. Other threats include increased predation by ground and aerial predators in the burrowin owl's habitat, and vehicle strikes.

Conservation and Management

The Florida burrowing owl is classified as State Threatened by the Florida Fish and Wildlife Conservation Commission. This means that taking, possessing, or selling burrowing owls, their nests (i.e., burrows), or eggs is prohibited without a permit (68A-27 F.A.C.). Burrowing owls, eggs, and young are also protected by the federal Migratory Bird Treaty Act.

<u>Biological Status Review (BSR)</u> <u>Supplemental Information for the BSR</u> <u>Species Action Plan for the Florida Burrowing Owl</u>

Burrowing Owl Species Conservation Measures and Permitting Guidelines

Learn more about how you can live with and conserve burrowing owls.

Other Informative Links

FWC - Florida's Breeding Bird Atlas The Cornell Lab of Ornithology Printable version of this page

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Florida Fran and Wildlife Conservation Commission - Fanis Bryant Building 620 S. Mendlan St Tallancasee, FL - 18501 468-4676 - Ocpyright 1956 - 6420 State of Plorida	Pursuant to section 12074, Florida Statutos, the Pish and wildusfe Conservation Commission has published of 2019 Agency Regulatory Plan	

Burrowing owl

Athene cunicularia



(Photo by FWC)

Taxonomic Classification

Kingdom: Animalia Phylum: Chordata Class: Aves Order: Strigiformes Family: Strigidae Genus/Species: Athene cunicularia Common Name: Burrowing owl

Listing Status

Federal Status: Not Listed FL Status: State Species of Special Concern FNAI Ranks: G4T3/S3 (Globally: Apparently Secure, Sub sp. Rare/State: Rare) IUCN Status: LC (Least Concern)

Physical Description

The burrowing owl is one of the smallest owls in Florida. It can reach a length of nine inches (22.9 centimeters) with a wingspan of 21 inches (53.3 centimeters). Burrowing owls have brown dorsal (back) feathers with patches of white spots, and a white underside with brown bar-shaped

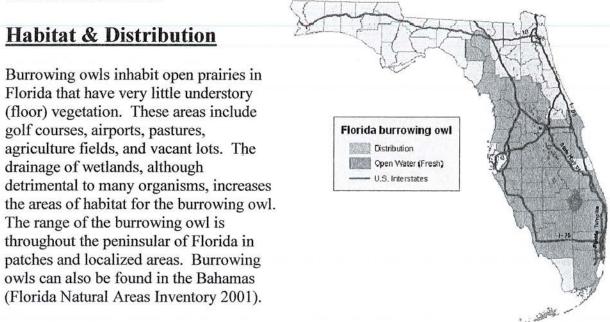
spots. The body color pattern helps them blend in with the vegetation in their habitat and avoid predation (Millsap 1996). They also have large yellow eyes and a white chin.

Life History

The diet of the burrowing owl primarily consists of insects; however, they will also feed on snakes, frogs, small lizards, birds, and rodents.

Nesting season occurs between October and May, with March being the primary time for laying eggs. Nesting occurs in burrows in the ground that they dig. These burrows will be maintained and used again the following year (Haug et al. 1993). Females lay up to eight eggs within a one-week period, and they will incubate the eggs for up to 28 days. Once the white-feathered juveniles are born, it takes two weeks before they are ready and able to appear out of the burrow. Juveniles will begin learning how to fly at four weeks, but will not be able to fly well until they are six weeks old. Juveniles will stay with the parents until they are able to self-sustain at 12 weeks old.

Burrowing owls are different than other owls as they are active during the day time (diurnal) rather than at night (nocturnal) during breeding season. During the non-breeding season, they become more nocturnal.



Threats

The burrowing owl faces many threats to its population. The main threat is the continued loss of habitat. Threats to habitat include construction activities development and harassment by humans and domesticated animals. Heavy floods can destroy burrows in the ground, which can cause the destruction of eggs and young. Other threats include increased predation by ground and aerial predators in the burrowing owl's habitat, and vehicle strikes.

Conservation & Management

The burrowing owl is protected by the U.S. Migratory Bird Treaty Act and as a State Species of Special Concern by <u>Florida's Endangered and Threatened Species Rule</u>.

-Biological Status Review (BSR) -Supplemental Information for the BSR

Other Informative Links

Birds of North America Encyclopedia of Life Florida Natural Areas Inventory FWC Species Profile FWC - Florida's Breeding Bird Atlas International Union for Conservation of Nature The Cornell Lab of Ornithology

References

- Florida Natural Areas Inventory. 2001. Field guide to the rare animals of Florida. http://www.fnai.org/FieldGuide/pdf/Athene_cunicularia_floridana.PDF
- Haug, E. A., B. A. Millsap and M. S. Martell. 1993. Burrowing Owl (Athene cunicularia), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <u>http://bna.birds.cornell.edu/bna/species/061</u>
- Millsap, B.A., 1996. Florida Burrowing Owl. Pages 579-587 in J.A. Rodgers, Jr., H.W. Kale II, and H.T. Smith (Eds.). Rare and endangered biota of Florida, Vol. V: Birds. University Press of Florida, Gainesville, FL.



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Florida Forever

Home » Divisions » Division of State Lands » Office of Environmental Services » Florida Forever

Florida Forever is Florida's premier conservation and recreation lands acquisition program, a blueprint for conserving natural resources and renewing Florida's commitment to conserve the state's natural and cultural heritage.

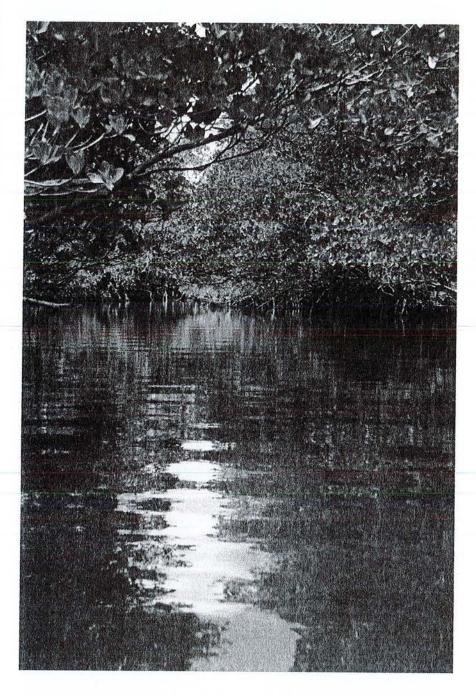
Florida Forever replaces Preservation 2000 (P2000), the largest public land acquisition program of its kind in the United States. With approximately **<u>10 million acres</u>** managed for conservation in Florida, more than 2.5 million acres were purchased under the Florida Forever and P2000 programs.

Since the inception of the Florida Forever program in July 2001, the state has purchased more than 814,063 acres of land with a little over \$3.1 billion (as of 11/30/2019).

Through Florida Forever, the state has protected:

- 652,000 acres of strategic habitat conservation areas
 - 628,670 acres of rare species habitat conservation areas, including 1,149 sites that are habitats for 536 different rare species, 210 of which are federalor state-listed as endangered, and 111 federal- or state-listed threatened 784 000 acres of ecological

784,000 acres of ecological greenways



- 134,840 acres of under
 - represented natural communities
- 570,870 acres landscapesize protection areas
- 457,160 acres of natural floodplains
- 796,060 acres important to significant water bodies
- 462,020 acres minimize damage from flooding
- 9,650 acres of fragile coastline
- 320,880 acres of functional wetlands
- 770,530 acres of significant groundwater recharge areas
- 460 miles of priority recreational trails
- 412,250 acres of sustainable forest land
- 1,115 archaeological/historic sites
- 12,140 acres in urban service areas

Note: These acreages were derived from the most recently updated **Florida Forever data layers**, which are continuously amended to reflect the most current scientific analysis of Florida's natural resources. Additionally, the acreages recorded for each measure often overlap, and thus should not be added together. Acquisition of natural resources is generally increasing each year; however, protected acreage for some natural resources may show a decline from the previous year for various reasons, including updates to natural resource GIS layers and priorities, updates to conservation land boundaries, new information about acquisition dates and purchasing programs, and changes in the protected status of lands, i.e., lands no longer managed for conservation purposes.

Florida Forever Funding Distribution

When Florida Forever funding is appropriated by the Legislature, it is distributed by the Florida Department of Environmental Protection to a number of state agencies and programs to purchase public lands in the form of parks, trails, forests, wildlife management areas and more. All of these lands are held in trust for the residents of Florida.

Pursuant to 259.105(3) F.S. the breakdown to agencies is:

- 1. Division of State Lands 35%
- 2. Stan Mayfield Working Waterfront 2.5%
- 3. Florida Communities Trust 21%
- 4. Division of Recreation and Parks 1.5%
- 5. Office of Greenways and Trails 1.5%
- 6. Florida Recreation Development Assistance Program (FRDAP) 2%
- 7. Florida Fish and Wildlife Conservation Commission 1.5%
- 8. Florida Forest Service, DACS 1.5%
- 9. Rural & Family Lands, DACS 3.5%
- 10. Water Management Districts 30%

This percentage distribution has not been used since FY 2010-11. The Legislature did not appropriate funds in FY 2011-12, FY 2013-14, or FY 2017-18. The other FY appropriations were funded by the Legislature with specific proviso language and not the percentage distribution. *For answers to other Frequently Asked Questions (FAQ) about topic, please <u>click here.</u>*

Most Recent Information and Reports

Additional Florida Forever information listed below is available for download from the DEP FTP site.

What is an FTP site?

FTP stands for File Transfer Protocol, and an FTP site is a server on the internet that uses this protocol. Users access this in the form of a website that stores files for downloading and uploading.

How do I use the FTP site to access the content from the Division of State Lands?

You follow the links provided below. The links will go to the correct location on the FTP site, so you will be able to identify which file you need from the file name. Click on the file and either select "Open" or "Save" it to a location on your computer.

If I have more questions, whom should I contact?

Please contact the Division of State Lands at 850-245-2555. You will need to be able to tell the receptionist which internet page you are using to download the file, so your call can be directed to the correct area. For example: You are currently on the "Florida Forever" internet page.

Florida Forever Annual Report*

*Please note: This is a large file and may take additional time to download.

Florida Forever Priority Lists

as approved by Board of Trustees of the Internal Improvement Trust Fund (BOT) as recommended by Acquisition and Restoration Council (ARC)

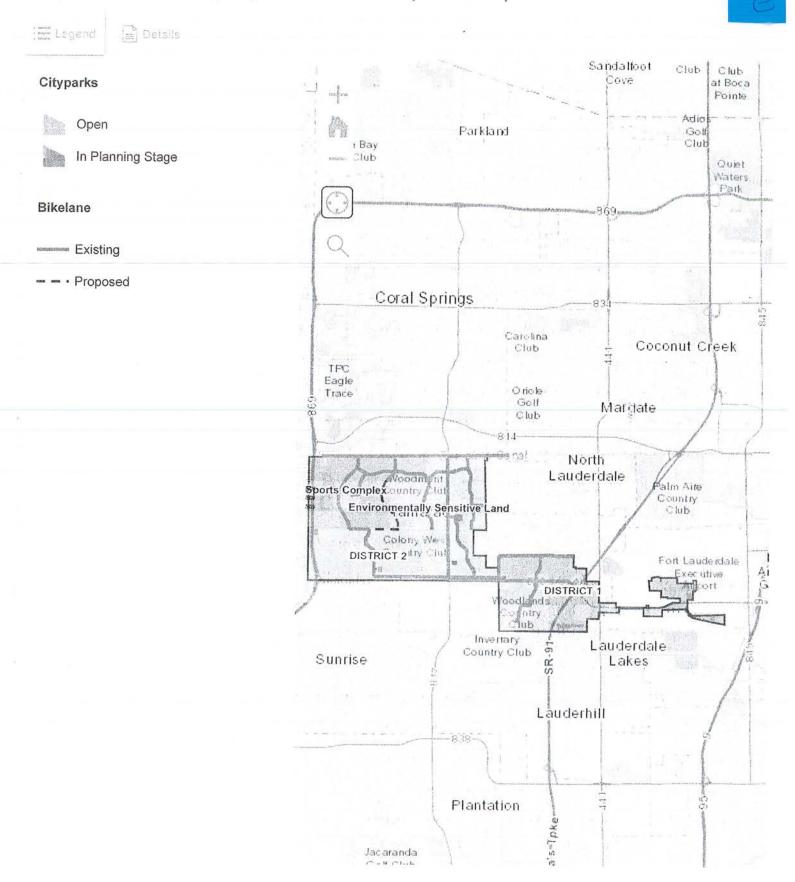
Florida Forever Financial Status Reports

<u>Monthly Summary Report</u> <u>Monthly Complete Report</u>

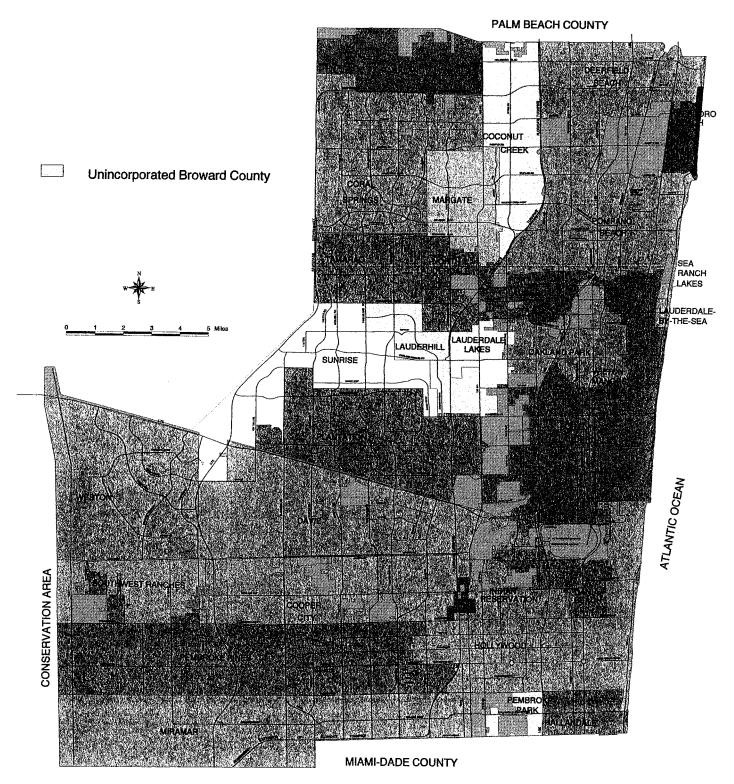
Application for Boundary Modification of Existing Florida Forever Project Application for New Florida Forever Project

Last Modified: January 14, 2020 - 11:02am

City of Tamarac (FL) Parks & Bikepath Map



Municipal Boundaries





Broward County Department of Planning & Environmental Protection Geographic Information Systems

en/1001.ac

July, 2000



Florida

The Florida Megaregion is one of the fastest growing in the nation and possesses a wealth of diversity, with six of every 10 new residents in the last decade coming from foreign countries. It is both dense and populous, with the major international city of Miami acting as a gateway to Latin America. Regional strategies to protect the Everglades have preserved the natural heritage of the state.

 Principal Cities: Miami, Orlando, Tampa, Jacksonville

 Population 2010: 17,272,595

 Percent of U.S. Population: 6%

 Population 2025: 21,449,652

 Population 2050: 31,122,998

 Projected Growth (2010 - 2050): 80.2% (13,850,403)

 2005 GDP: \$608,082,000,000

 Percent of US GDP: 5%



Recent Entries

Rebuilding and Renewing America: Summary of Megaregion Forums

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Since 2007, America 2050 has held megaregion forums in seven of America's eleven megaregions nation-wide. There forums were held as part of a "Rebuilding and Renewing America" campaign, which aimed to build support for the infrastructure investments we need to guide America toward a sustainable and prosperous future. The forums aimed to achieve three goals:

- Build support around the country for an ambitious national infrastructure plan in the areas of transportation, energy, and water.
- Identify and prioritize the key infrastructure priorities in the megaregions, which can act as building blocks to a national plan.

Megaregions Arizona Sun Corridor Cascadia Florida Front Range Great Lakes Gulf Coast Northeast Northeast Northern California Piedmont Atlantic Southern

Infrastructure

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America 2050 is a project of



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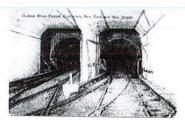
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Tweets by @America2050



@NYTransitMuseum Replying to @MAlbino154

This hand-painted photo shows the Hudson River Tunnel, the first tunnel connecting the states, built 1909 @MAlbino154



Sep 17, 2014

2050 America 2050 @America2050

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 Create megaregion coalitions to support these megaregion priorities and begin coordinating with each other.

Each megaregion prioritized slightly different issues and has followed up on the forum in varying degrees. To read about the megaregion forums and next steps, download the summary below. Also available is a PowerPoint presentation given by Petra Todorovich at the America 2050 national meeting, which also outlines common principles on federal policy that were emphasized in each of the megaregions.

Download the Summary of Megaregion Forums.

Download a PowerPoint about the Forums.

The 2009 Super Regional Leadership Conference, ChampionsGate, FL

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The Tampa Bay Partnership and Central Florida Partnership are hosting the state's first "Super Regional Leadership Conference." Join RPA President Bob Yaro on Thursday, May 7, as he addresses the conference as lunchtime keynote, speaking about America 2050.

While Tampa Bay and Central Florida have several great examples of working together to create opportunity, manage growth and plan for the future, it is time for the entire region to come together and unite to build upon these successes, energize its leaders, and work together for the future of our region and our state. The Florida megaregion stretches from Tampa Bay to Orlando to Miami and is made up of 15 million people with a collective economic output of \$608 billion. With leaders and residents ready to come together, this is the place and the time to affect change.

Please click the conference logo for more information.

I-95 Corridor Coalition Outlines its Vision for 2040

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In a recently released report, the I-95 Corridor Coalition outlines a transportation vision for the eastern seaboard that would invest in a multimodal transportation system, reduce the carbon footprint of the region, and enhance the region's economic vitality and global competitiveness. To accomplish this vision, the

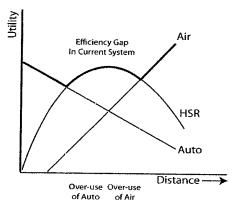
Florida - Åmerica 2050

coalition calls for significant changes to the political, institutional, and financial arrangements that control transportation planning and funding. For these goals to be realized it would require doubling fuel efficiency, tripling the transit ridership in the region, and increasing the intercity rail ridership by eight fold. For an overview of the recommendations from the I-95 Coalition download the executive summary of the report here.

Filling the Transportation Efficiency Gap: High-Speed Rail

Share

The notion of an efficiency gap in the current transportation networks is explored in a Master's thesis by Columbia University graduate student and America 2050 research intern, Yoav Hagler. At short distances, the most efficient mode of intramegaregion travel is auto, and at long distances, the most efficient mode is air. However there exists an intermediate distance at



E-mail

which the most efficient mode based on these four criteria is high-speed rail. The efficiency gap, which peaks between 200-400 miles can aid future studies in regards to preferred route selection, station, location, and the location of megaregional transportation hubs.

The Master's thesis titled "Back on Track: An Examination of Current Transportation Networks and Potential High-Speed Rail Systems in Three U.S. Megaregions is available for download here. The study analyzed the current transportation networks and proposed high-speed rail networks in the Northeast, Midwest, and the Florida megaregions. This research analyzed, from the consumer prospective the total reach, cost, reliability, and convenience of four modes (Air, Auto, Rail and High-Speed Rail) for travel within these megaregions.

A Comprehensive Economic Development Strategy for South Florida

Share

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In May of this year, the South Florida Regional Planning Council released a draft report on revitalizing the economy and overall health of the South Florida region. The analysis, conducted for the Economic Development Administration, studied

Florida - America 2050



demographic challenges and opportunities, business and workforce development, infrastructure needs, and environmental concerns. In addition to acknowledging the diverse population as an asset for the region's economy, the report recommends investments in local, state and regional infrastructure, improving public services and ensuring quality jobs to offset current

challenges.

Read the Council's draft report.

South Central Florida Megaregion Analysis

Share

Population Density (per square mile)

This PowerPoint presentation includes an analysis of the South Central Florida Megaregion by the South Florida Regional Planning Council in September 2006.

E-mail

Download the Presentation

"Orlampa" -- Middle of Somewhere

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The Orlando Sentinel published a special report today on the rapid rate of development along the I-4 corridor between Orlando and Tampa. The article positions the development in this corridor as part of the emergence of the Florida megareigon. It includes an online multimedia component featuring interviews with a long-time resident and local farmer, newcomers to the area, and America 2050 project director, Petra Todorovich.

Read the article.

Archives

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FLORIDA DEPARTMENT OF TRANSPORTATION 2010 - 2050 POPULATION PROJECTIONS By County by District

	U.S. Census	2010 - 2050 Population Projections				
County/	Counts	(in thousands)				
District	April 1,	2010	2020	April 1,		
	2000	2010	2020	2030	2040	2050
Charlotte	141,627	172.5	205.5	232.5	260.0	290.0
Collier	251,377	387.0	512.5	619.0	691.5	772.5
De Soto	32,209	36.0	43.5	48.5	54.0	60.5
Glades	10,576	11.5	12.5	13.5	15.5	17.0
Hardee	26,938	29.0	31.5	34.0	38.0	42.5
Hendry	36,210	43.0	50.0	56.0	62.5	70.0
Highlands	87,366	101.5	116.0	127.5	142.5	159.0
Lee	440,888	648.5	828.5	979.0	1,093.5	1,221.5
Manatee	264,002	344.0	413.5	471.0	526.0	587.5
Okeechobee	35,910	39.5	43.0	45.5	51.0	57.0
Polk	483,924	599.0	699.0	779.0	870.5	972.0
Sarasota	325,961	407.0	476.5	532.0	594.0	663.5
District 1 Total	2,136,988	2,819	3,432	3,938	4,399	4,913
Alachua	217,955	261.0	295.0	321.0	358.5	400.5
Baker	22,259	26.0	29.0	31.5	35.0	39.5
Bradford	26,088	29.5	32.5	35.0	39.0	43.5
Clay	140,814	198.0	248.5	290.5	324.5	362.5
Columbia	56,513	68.5	79.0	87.5	98.0	109.5
Dixie	13,827	17.0	20.0	22.0	25.0	27.5
Duval	778,879	940.0	1,077.5	1,191.5	1,331.0	1,486.5
Gilchrist	14,437	18.5	22.5	26.5	29.5	33.0
Hamilton	13,327	15.0	16.0	16.5	18.5	21.0
Lafayette	7,022	8.5	9.5	10.0	11.0	12.5
Levy	34,450	42.5	50.5	57.0	63.5	71.0
Madison	18,733	20.5	22.0	23.5	26.5	29.5
Nassau	57,663	75.0	91.0	105.0	117.0	130.5
Putnam	70,423	77.0	83.0	87.5	98.0	109.5
St. Johns	123,135	191.0	252.0	303.5	339.0	379.0
Suwannee	34,844	42.0	49.5	55.5	62.0	69.0
Taylor	19,256	23.0	25.0	26.5	29.5	33.0
Union	13,442	16.5	18.0	19.0	21.0	23.5
District 2 Total	1,663,067	2,069.5	2,420.5	2,709.5	3,026.5	3,381.0

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FLORIDA DEPARTMENT OF TRANSPORTATION 2010 - 2050 POPULATION PROJECTIONS By County by District

	U.S. Census		2010 - 205	0 Population	Projections	No de la constant angle i angl	
Communit	Counts		(in thousands)				
County/	April 1,	222.2.2		April 1,			
District	2000	2010	2020	2030	2040	2050	
Вау	148,217	175.5	199.5	219.5	245.0	273.5	
Calhoun	13,017	15.0	16.5	17.5	20.0	22.0	
Escambia	294,410	321.0	352.5	378.5	422.5	472.0	
Franklin	11,057	13.0	14.0	15.5	17.0	19.0	
Gadsden	45,087	50.0	53.5	56.5	63.0	70.5	
Gulf	13,332	17.5	19.0	20.0	22.5	25.0	
Holmes	18,564	20.0	21.5	22.5	25.0	28.0	
Jackson	46,755	53.0	57.0	60.5	67.5	75.0	
Jefferson	12,902	15.0	16.0	17.5	19.5	21.5	
Leon	239,452	296.5	342.0	378.0	422.5	471.5	
Liberty	7,021	8.0	8.5	9.0	10.5	11.5	
Okaloosa	170,498	207.5	240.5	266.5	297.5	332.5	
Santa Rosa	117,743	158.5	195.0	226.5	253.0	282.5	
Wakulla	22,863	33.5	41.0	48.0	53.5	60.0	
Walton	40,601	65.5	87.5	106.0	118.0	132.0	
Washington	20,973	26.5	30.0	33.0	36.5	41.0	
District 3 Total	1,222,492	1,476.0	1,694.0	1,875.0	2,093.5	2,337.5	
Broward	1,623,018	1,905.5	2,200.0	2,439.5	2,724.5	3,043.0	
Indian River	112,947	147.0	177.0	201.5	225.0		
Martin	126,731	156.5	183.0	205.0	229.0	251.5	
Palm Beach	1,131,191	1,417.5	1,686.0	1,912.5	2,136.0	256.0	
St. Lucie	192,695	281.0	356.5	419.0	468.0	2,386.0	
District 4 Total	3,186,582	3,907.5	4,602.5	5,177.5	5,782.5	523.0 6,459.5	
Brevard	476,230	584.0	677.0	754.5	and the second		
Flagler	49,832	104.0	150.5	190.5	843.0	941.5	
_ake	210,527	313.0	404.0	480.0	213.0	238.0	
Marion	258,916	351.0	433.0	501.0	536.5	599.0	
Drange	896,344	1,197.5	1,473.5		560.0	625.5	
Dsceola	172,493	292.5	397.5	1,703.0	1,902.0	2,124.5	
Seminole	365,199	460.0	544.5	487.0	544.0	607.5	
Sumter	53,345	92.0	125.5	613.5	685.5	765.5	
/olusia	443,343	545.0	633.5	154.0	172.0	192.5	
District 5 Total	2,926,229	3,939.0	4,839.0	705.5	788.0	880.0	
liami-Dade	2,253,779	and		5,589.0	6,244.0	6,974.0	
Annoe		2,606.0	2,927.5	3,197.0	3,570.5	3,988.5	
District 6 Total	79,589	84.0	87.0	90.0	100.5	112.0	
	2,333,368	2,690.0	3,014.5	3,287.0	3,671.0	4,100.5	
Citrus	118,085	147.5	173.5	195.0	218.0	243.5	
lernando	130,802	170.0	204.5	232.5	260.0	290.5	
lillsborough	998,948	1,262.5	1,493.0	1,680.5	1,877.0	2,096.5	
asco	344,768	463.5	566.5	651.0	727.0	812.0	
inellas	921,495	978.5	1,035.0	1,083.5	1,210.5	1,352.0	
District 7 Total	2,514,098	3,022.0	3,472.5	3,842.5	4,292.5	4,794.5	
lorida Total	1						

Note: Individual totals my not add due to rounding

Sources: U.S. Department of Commerce - Bureau of the Census University of Florida - Bureau of Economic and Business Research Florida Department of Transportation - Office of Policy Planning Enter a search term ... visual search Login / Register 0 items - € 0,00 PowerPoint Maps PowerPoint Tools Excel Maps Vector Maps **GIS** Consulting PowerPoint Maps US Florida Map County population density Maps US Florida Map County population density - PowerPoint Presentation Africa Compare US Florida Map by population density map with Lambert or Anamorphic Projection type by counties (Administration Level 2). The data source is from the Annual Census Report Asia (http://www.census.gov/). Australia The map on the left shows the classic Florida (US.FL) map with counties in Lambert projectiontypes, calculated by the area per population density and as a "heat map". On the right: The anamorphic map of Florida with 67 counties. The color ramp ("heat map") moves from (green = min, Europe red = max values per population). Central America USA - Florida Population Map | Dez-2014 - (County) MAPS+OTHER Lambert Map Anamorphic Map North America South America CityMarker Germany Austria Switzerland **Cross Border Maps** Worldmap US Florida Map County population density - US.FL (States) Continents The total population in US.FL. 2015: 19.552.860 (est. values) Regions US Florida Map County population density - Table / Source **PowerPoint Tools** Maps4Office clients can use following table to create this Heatmap (only classic lambert-projection)

Excel Maps

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Europe

North America

South America

Vector Maps

GIS Consulting

for the simple PowerPoint Maps:

Find right Map - States: US-Florida Map - PowerPoint template

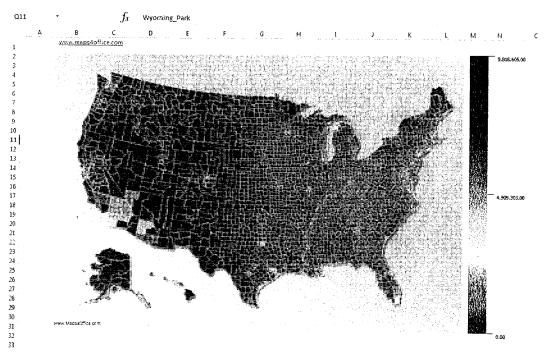




Florida Map PowerPoint Vector, State of America (US.FL) for Presentations

Compare Heatmap by all US-Counties

Source - Excel-Heatmap Addin



Data-Source

(sort by counties)

Florida - Counties	HASC-ID	Population	Capital City
Alachua	US.FL.AL	253.451	Gainesville
Baker	US.FL.BK	27.013	Macclenny
Bay	US.FL.BY	174.987	Panama City

Bradford	US.FL.BA	2.685 Starke
Brevard	US.FL.BE	550.823 Titusville
Broward	US.FL.BO	1.838.844 Fort Lauderdale
Calhoun	US.FL.CA	14.682 Blountstown
Charlotte	US.FL.CH	164.736 Punta Gorda
Citrus	US.FL.CI	139.271 Inverness
Clay	US.FL.CY	196.399 Green Cove Springs
Collier	US.FL.CL	339.642 East Naples
Columbia	US.FL.CU	67.543 Lake City
Desoto	US.FL.DE	34.517 Arcadia
Dixie	US.FL.DI	1.594 Cross City
Duval	US.FL.DU	885.855 Jacksonville
Escambia	US.FL.ES	305.817 Pensacola
Flagler	US.FL.FL	99.956 Bunnell
Franklin	US.FL.FR	11.598 Apalachicola
Gadsden	US.FL.GA	46.194 Quincy
Gilchrist	US.FL.GI	16.931 Trenton
Glades	US.FL.GL	13.345 Moore Haven
Gulf	US.FL.GU	15.829 Port Saint Joe
Hamilton	US.FL.HM	14.354 Jasper
Hardee	US.FL.HD	27.519 Wauchula
Hendry	US.FL.HR	37.471 La Belle
Hernando	US.FL.HA	174.441 Brooksville
Highlands	US.FL.HG	97.616 Sebring
Hillsborough	US.FL.HL	1.291.578 Tampa
Holmes	US.FL.HO	19.717 Bonifay
Indian River	US.FL.IN	141.994 Vero Beach
Jackson	US.FL.JA	48.922 Marianna
Jefferson	US.FL.JE	14.194 Monticello
Lafayette	US.FL.LF	8.848 Mayo
Lake	US.FL.LK	308.034 Tavares
Lee	US.FL.LE	661.115 Fort Myers
Leon	US.FL.LO	281.845 Tallahassee
Levy	US.FL.LV	39.644 Bronson
Liberty	US.FL.LI	8.349 Bristol
Madison	US.FL.MD	18.728 Madison
Manatee	US.FL.MN	342.106 Bradenton

Marion	US.FL.MI	337.362	Ocala
Martin	US.FL.MT	151.263	Stuart
Miami-Dade	US.FL.DA	2.617.176	Miami
Monroe	US.FL.MO	76.351	Key West
Nassau	US.FL.NA	7.571	Fernandina Beach
Okaloosa	US.FL.OA	193.811	Crestview
Okeechobee	US.FL.OE	3.933	Okeechobee
Orange	US.FL.OR	1.225.267	Orlando
Osceola	US.FL.OS	298.504	Kissimmee
Palm Beach	US.FL.PL	1.372.171	West Palm Beach
Pasco	US.FL.PS	475.502	Dade City
Pinellas	US.FL.PI	929.048	Clearwater
Polk	US.FL.PO	623.009	Bartow
Putnam	US.FL.PU	72.577	Palatka
Saint Johns	US.FL.SJ	209.647	Saint Augustine
Saint Lucie	US.FL.SL	286.832	Fort Pierce
Santa Rosa	US.FL.SA	390.429	Milton
Sarasota	US.FL.SR	390.429	Sarasota
Seminole	US.FL.SE	436.041	Sanford
Sumter	US.FL.SM	107.056	Bushnell
Suwannee	US.FL.SW	43.734	Live Oak
Taylor	US.FL.TA	22.857	Perry
Union	US.FL.UN	15.136	Lake Butler
Volusia	US.FL.VO	5.008	De Land
Wakulla	US.FL.WK	31.022	Crawfordville
Walton	US.FL.WL	59.807	De Funiak Springs
Washington	US.FL.WS	24.624	Chipley

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Why a Moratorium Now ? 1.) Concern About Rapid Growth 2.) Population at Total Build Out 3.) Quality of Development 4.) Cost of Community Services 5.) Time to Plan

1-Dec-11





Future Student Population

•The total population is 45,563.

1-Dec-11

•There is a student to total population ratio of .112.



•Applying this ratio to a total population of 65,000 residents' results in **7,280 students.**

Today there are approximately 5,128 public school children.
The total capacity of the school system is 6,211 students.
This means the city would have to build new schools.

The City of Middletown simply can't afford to grow at this pace.



MIDDLETOWN PLANNING DEPARTMENT



1-Dec-11

Time to Plan

The Planning and Zoning Commission is overwhelmed with applications.

The number of applications The volume of the materials submitted The length of the public hearings The statutory time frames to make decisions; and The legal and engineering complexities



Hinders the Commission's ability to undertake thorough and meaningful reviews, let alone adopt a new Plan of Conservation and Development, review its own regulations and make necessary changes.

A moratorium will give the Commission time to address these issues.

Recommendations

- Adopt a new Plan of Conservation and Development
- 2. Devise a plan to spend the \$3 million in open space funds
 - Investigate the legality of a "controlled growth amendment" limiting the number of lots approved and building permits issued each year;
- 4. Adopt zoning text amendment allowing over 55 housing developments to offer an alternative to traditional single family housing;
- 5. Eliminate the allowance for rear lots;

1.

3.

6. Investigate limiting the use of cul-de-sacs;

1-Dec-11

- 7. Adopt net lot area requirement to exclude a reasonable portion of steep slopes and wetlands from total lot area calculation;
- 8. Strengthen cluster regulations to force better design and limit amount of wetlands in open space;
- 9. Adopt provisions authorizing payments in lieu of open space;
- 10. Adopt new road standards including drainage, sidewalks, and street lighting, to insure proper road design based on the area suburban or rural.
- 11. Amend zoning map to increase minimum lot area to increase lot size so as to decrease the number of homes at total residential build out.



LAND USE MORATORIA

JAMES A. COON LOCAL GOVERNMENT TECHNICAL SERIES

A Division of the New York Department of State

Andrew M. Cuomo, Governor

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NEW YORK STATE DEPARTMENT OF STATE 99 WASHINGTON AVENUE ALBANY, NEW YORK 12231-0001 http://www.dos.ny.gov

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Revised 2010 Reprint Date: 2013

James A. Coon

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The James A. Coon Local Government Technical Series is dedicated to the memory of the former Deputy Counsel of the Department of State.

Jim Coon devoted his career to assisting localities in their planning and zoning, and to helping shape the state municipal statutes. His outstanding dedication to public service was demonstrated by his work and his writings, including the work, *All You Ever Wanted to Know About Zoning*. Jim also taught land use law at Albany Law School. His contributions in the area of municipal law were invaluable, and immeasurably improved the quality of life of New Yorkers and their communities.

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Introduction

A land use moratorium is a local enactment which temporarily suspends a landowner's right to obtain development approvals while the community considers and potentially adopts changes to its comprehensive plan and/or its land use regulations to address new circumstances not addressed by its current laws.

A moratorium on development therefore preserves the *status quo* while the municipality updates its comprehensive plan. A moratorium is designed to halt development temporarily, pending the completion and possible adoption of more permanent, comprehensive regulations.

The objective of municipal land use controls is to promote community planning values by properly regulating land development. It follows that land use controls work best when built upon a carefully considered comprehensive plan. It takes time to put together or to update a good community plan. During this time, demand for a particular use of land may arise for which there are inadequate or nonexistent controls. If the community allows development during that time, the ultimate worth of the eventual plan could be undermined. For these reasons, moratoria and other forms of interim zoning controls are often needed to "freeze" development until a satisfactory final plan or regulations are adopted.

THE CONCEPT OF MORATORIA

The enactment of temporary restrictions on development has been held to be a valid exercise of the police power where the restrictions are reasonable and related to public health, safety or general welfare¹. Local governments can enact a moratorium for a broad range of reasons.

Why adopt moratoria?
Prevent rush to development
Prevent inefficient and ill-conceived growth
Address a new kind of use (ie- wind farms, solid waste facilities, big box stores) in comprehensive plans and land use laws
Prevent hasty decisions that would disadvantage landowners and the public
Prevent immediate construction that might be inconsistent with the provisions of a future plan

The moratorium may be general, imposing a ban on all development approvals throughout the community, or specific to one land use or to a particular zoning district. For example, a moratorium can halt: the review of projects currently before boards; acceptance of new development applications (site plan, subdivision, special permit); and/or issuance of water and sewer connection permits.

Municipalities that adopt moratoria often exempt certain activities. A common exemption is for landowners whose construction applications have been approved. Construction of single-family homes and minor additions to them, such as garages, have been exempted from the moratorium.

Land-Use Moratoria Distinguished From General Police Power Moratoria

Land Use Moratoria

The most common type of moratorium is on land use approvals. Land use moratoria are designed to preserve the status quo while planning or zoning changes are made: these moratoria are often known as "stopgap" or "interim" zoning. These enactments are appropriate mechanisms for addressing long range community planning and zoning objectives. Moratoria can also be imposed on other land use controls including subdivision plat review and issuance of building permits.

The New York zoning enabling laws do not contain any specific mention of "moratorium" or "moratoria." Early on in the history of zoning, however, the New York Court of Appeals gave some

indication that any zoning regulation could temporarily and lawfully limit an owner's ability to use land profitably, so long as the regulation furthers the community's long-range planning goals.2

By enacting a land use moratorium, the local

"it would be a rather strict application of the law to hold that a city ... cannot take reasonable measures temporarily to protect the public interest and welfare until an ordinance is finally adopted. Otherwise, any movement by the governing body ... would ... precipitate a race of diligence between property owners, and the adoption later of the zoning ordinance would in many instances be . . . like locking the stable after the horse is stolen." [Downham v. Alexandria]

government temporarily suspends a landowner's right to build or to obtain development approvals while the community considers adopting changes to its comprehensive plan and/or its land use regulations. Quite often these contemplated changes will address new circumstances not dealt with in the municipality's current land use laws. A moratorium on development can preserve the *status quo* while the municipality updates its comprehensive plan or its zoning.

"Stopgap zoning" is addressed in a number of early zoning cases that arose in other states. In perhaps the most widely cited of these, Downham v. City Council of Alexandria,3 the court stated, "it would be a rather strict application of the law to hold that a city, pending the necessary preliminaries and hearings . . . cannot, in the interim, take reasonable measures temporarily to protect the public interest and welfare until an ordinance is finally adopted. Otherwise, any movement by the governing body of the city to zone would, no doubt, frequently precipitate a race of diligence between property owners, and the adoption later of the zoning ordinance would in many instances be without effect to protect residential communities--like locking the stable after the horse is stolen."

In the case of *Lo Conti v. City of Utica*, *Dept. of Buildings*,⁴ the Supreme Court, Oneida County recognized the validity of a moratorium in concept, but struck down the City of Utica's moratorium on building permits due to the city's failure to comply strictly with the notice provisions of the State enabling legislation. The judge aptly stated:

> "In order to prevent a race by property owners to obtain building permits when it has become common community knowledge that a zoning ordinance is being considered which may affect the uses to which they may put their property, municipalities have

adopted interim or stop-gap ordinances which impose a moratorium on the issuance of certain types of permits during the pendency of the proposed new zoning ordinance. The validity of this type of ordinance has been upheld by the courts."

General Police Power Moratoria

Where immediate health and safety problems are at issue, the general "police power", not zoning, is the appropriate source of authority for a moratorium. The police power is the authority possessed by municipal governments to take action to advance the public health, safety and welfare. While land use regulation itself is an exercise of the police power, the term is more commonly employed in reference to other forms of municipal laws or ordinances.

A municipally-imposed moratorium on development activity can address inadequacies in public infrastructure, or deal with dire threats to the community health, safety or welfare. In Belle Harbor Realty Corp. v. Kerr,⁵ the Court of Appeals upheld the revocation of a building permit due to an inadequate municipal sewer system. The court found that the revocation was a legitimate exercise of general police power and was not limited by constraints on zoning authority. The Court articulated a three-prong test to address temporary restrictions imposed by a municipality under the general police power in response to an immediate health and safety problem. To justify temporary interference with the beneficial use of property, the municipality must establish that:

> It acted in response to a dire necessity;
> Its action is reasonably calculated to alleviate or prevent a crisis condition; and
> It is presently taking steps to rectify the problem.

"When the general police power is invoked under such circumstances it must be considered an emergency measure and is circumscribed by the exigencies of that emergency"said the Court.⁶ The three-prong test may not apply when the landholder retains reasonable use of the property.⁷

In the case of *Charles* v. *Diamond*,⁸ a landowner challenged a moratorium on sewer connections to the village sewer system which prevented him from developing an apartment complex. The moratorium, read in combination with another village law requiring that such buildings had to be connected to the village sewage system, effectively halted all apartment construction until the village corrected the deficiencies in its sewer system. Without reaching the merits, the Court of Appeals recognized:

> "A municipality has ample power to remedy sanitation problems including difficulties presented by inadequate treatment or disposal of sewage and waste. Inadequate systems of sewage disposal present not only ecological and aesthetic problems, but may pose direct and immediate health hazards. The municipal power to act in furtherance of the public health and welfare may justify a moratorium on building permits or sewer attachments which are reasonably limited as to time. Temporary restraints necessary to promote the overall public interest are permissible. Permanent interference with the reasonable use of private property for purposes for which it is suited is not."9

The Court in *Charles v. Diamond* held that where a municipality first requires that new development hook-up to public sewers and then imposes a temporary restraint on residential sewer

connections, the municipality can be sued for damages if it engages in unreasonable delay in improving its public sewer system and be assessed consequential damages resulting from such delay. Writing for the majority, Judge Jasen concluded:

> "[W]here the municipality has affirmatively barred substantially all use of private property pending remedial municipal improvements, unreasonable and dilatory tactics, targeted really to frustrate all private use of property, are not justified. The municipality may not, by withholding the improvements that the municipality has made the necessary prerequisites for development, achieve the result of barring development, a goal that would perhaps be otherwise unreachable."

In Westwood Forest Estates, Inc. v. Village of South Nyack,10 the Court of Appeals struck down a village zoning regulation which prohibited the construction of apartments in the village. The zoning ordinance had been enacted in order to forestall any future problems with the village's inadequate sewerage system. The Court reasoned that the village could have addressed the immediate problem through more appropriate police power regulations affecting all users of the sewer system. Instead, the village chose to use its zoning power, improperly in the court's view, to single out a particular type of land use. The court found it impermissible to single out one landowner to bear a heavy financial burden because of a general condition in the community. In his opinion, Judge Breitel indicated that "a moratorium on the issuance of any building permits, reasonably limited as to time," would have been a more legally defensible approach for the village to have taken.

With these three decisions, the Court of Appeals

drew a clear distinction between emergency actions to address immediate health or safety problems, on the one hand, and zoning or land use actions intended to address long-term issues of growth and development, on the other. By distinguishing the police power issue from the zoning issue, the Court of Appeals sharpened the focus on the standards applicable to land use moratoria. Land use moratoria are appropriate mechanisms for addressing long-range community planning and zoning objectives. But where immediate health and safety problems are at issue, they are not a permissible approach. Instead, other police power controls must be used. Those controls, whether legislative or administrative in nature, must not single out particular types of land use, but must instead address the immediate problem itself, and in a way which is fair to all landowners.

"Growth-Capping" Laws

"Growth-capping" laws are designed to limit, *but* not to halt, development, pending the upgrading of capital improvements in the community. These laws control development by allowing a predetermined amount of growth within a defined period. The purpose of

period. The purpose of	
growth-capping laws is	
to assure that	The p
development does not	growth c
outpace planned	is to as
improvements. In	developm
contrast, a moratorium	outpac
is designed to halt	improve
development for a	con
certain period, to	morat
maintain the status quo.	design
	dovelop

The landmark "growthcapping" decision is Golden v. Planning Board of the Town of Ramapo,¹¹ decided by The purpose of growth capping laws is to assure that levelopment does not outpace planned improvements. By contrast, a moratorium is designed to halt development for a certain period, to maintain the status quo.

the Court of Appeals in 1972. In its decision, the Court upheld the town's 18-year phased-

development plan, which placed growth restrictions of varying durations on certain areas of the town. The restrictions could be lifted prior to expiration only if a developer were to provide certain public improvements during the interim period. The majority opinion did not employ the term "moratorium." Development was possible under certain conditions, so the law did not impose a moratorium. Nonetheless, the Court set forth a principle that would later be applied to moratoria as well: "where it is clear that the existing physical and financial resources of the community are inadequate to furnish the essential services and facilities which a substantial increase in population requires, there is a rational basis for 'phased growth' . . . "

The town enacted a zoning amendment which prohibited residential subdivision plat approval until certain public infrastructure had first been installed either by the town or the developer by means of securing a special permit or a variance. To acquire a special permit, the developer was required to accumulate 15 points based on the provision of five essential facilities or services: (1) public sanitary sewers or approved substitutes; (2) drainage facilities; (3) improved public parks or recreation facilities, including public schools; (4) State, county or town roads-major, secondary or collector; and, (5) firehouses. The plan allowed the developer to provide the required services at his or her own expense; this enabled the developer to accumulate 15 points and receive approval of the special permit and subdivision plat. Without contributing towards these town's facilities, a developer might have to wait up to 18 years to obtain subdivision approval.

Phased growth was necessary because the town's "basic services and improvements are inadequate and their reasonable cost cannot be presently absorbed" by town residents. The court recognized that "[t]he undisputed effect of these integrated efforts in land use planning and development is to provide an over-all program of orderly growth and adequate facilities through a sequential development policy commensurate with progressing availability and capacity of public facilities." Any delay in residential development occasioned by phased growth amendment was temporary. The Court concluded: "In sum, where it is clear that the existing physical and financial resources of the community are inadequate to furnish the essential services and facilities which a substantial increase in population requires, there is a rational basis for 'phased growth' and hence, the challenged ordinance is not violative of the Federal and State Constitutions."

In 1989, the Town of Clifton Park adopted a "Phased Growth Law" that limited the number of building permits obtainable in any year in a designated development area to 20% of the total units approved for any given project. The development area encompassed roughly 10% of the town's total land area. By its terms, the law was to remain in effect until a particular highway interchange was to have been completed, but in no case could it exceed five years. Upon challenge, the Appellate Division, Third Department, held the law to be a legitimate exercise of the Town's zoning power. The court said it addressed a situation where there existed "ample evidence that the designated area has a major traffic problem and the new home construction in the area is the primary contributor to this congestion."12

"Phased growth" laws generally do not amount to a total prohibition on construction, and are mentioned here by way of contrast with true moratoria. The courts have held that the capping of development is a valid exercise of the zoning power when it is employed in a fair and reasonable manner, even if the limitation lasts longer than an outright moratorium would.

BASIC REQUISITES OF LAND USE MORATORIA

As stated above, the New York zoning enabling statutes contain no mention of the word "moratorium." In holding moratoria to be lawful, the cases have suggested that five (5) key elements are requisite for a legally defensible moratorium. The land use moratorium should:

> 1) have a <u>reasonable time frame</u> as measured by the action to be accomplished during the term;

2) have <u>a valid public purpose</u> justifying the moratoria or other interim enactment;

3) address a situation where the burden imposed by a moratorium is being shared substantially by the public at large;

 <u>strictly adhere to the procedure</u> for adoption laid down by the enabling acts; and

5) have a <u>time certain</u> when the moratorium will expire.

1) Reasonable Time Frame.

The courts will look carefully to see that the terms of a moratorium express a relatively short but specific duration, and that the duration is closely related to the municipal actions necessary to address the underlying issues. The U.S. Supreme Court has recognized the difficulty of selecting a fixed time frame for moratoria.¹³ However, courts have historically had little patience with municipal delay in carrying out the comprehensive planning, law adoption or facilities expansion for which the moratorium was enacted. The courts have disallowed moratoria where the time period was excessively long or unfixed.

In its 1974 decision in Lake Illyria Corporation v.

Town of Gardiner,¹⁴ the Appellate Division, Third Department, struck down a moratorium. In order to halt development pending the adoption of a new comprehensive zoning ordinance, the Town had since 1968 annually enacted moratoria prohibiting any use of property except for residential purposes unless a variance was obtained. The plaintiff brought suit, challenging the validity of the latest local enactment renewing the moratorium. The Court's opinion stated:

> "The purpose of 'stop-gap' zoning is to allow a local legislative body, pending decision upon the adoption of a comprehensive zoning ordinance, to take reasonable measures temporarily to protect the public interest and welfare until an ordinance is finally adopted. Otherwise, the eventual comprehensive zoning ordinance might be of little avail."

"While it might be deemed a proper exercise of power for the town to freeze building uses when the town is [a]ctively engaged in the enactment of a comprehensive zoning law, the present case demonstrates the potential abuse of such a process by long delay...., and throughout this period of time the only [m]eaningful progress towards the preparation of a comprehensive plan has taken place relatively recently...."

"A course of conduct such as that followed by the Town herein is plainly contrary to the purpose of interim or 'stopgap' zoning. Under the present circumstances, the absence of justification for such an exercise of power renders this four-year delay unreasonable."¹⁵

Until the *Lake Illyria* decision, the courts had recognized the validity of moratoria for the purpose of a community's development of permanent new zoning regulations. *Lake Illyria*, however, made it a distinct requirement that, during the moratorium on land use approvals, the community must be actively engaged in the development of either a comprehensive plan or land use regulations.

In dealing with the issue of the reasonable duration of a moratorium in *Lakeview Apartments v. Town* of Stanford,¹⁶ the Appellate Division, Second Department, in 1985 struck down the town's moratorium which had lasted more than five years because it exceeded a reasonable duration. What was unusual about the decision was that the length of time was held to be unreasonable even though the Town had made documented progress toward a permanent set of regulations. The Town showed that it had adopted a master plan in 1980 and had completed the preliminary draft of a zoning ordinance in 1983.

In the 1991 case, Duke v. Town of Huntington,¹⁷ the Town had been developing a planning document, a Local Waterfront Revitalization Plan (LWRP), for many years when it enacted a moratorium prohibiting the construction of docks. Although it was originally to have expired within ten months, the moratorium was extended twice, to cover a total period of almost three years, triggering a court challenge. While recognizing the general usefulness of moratoria, the court nonetheless invalidated the Town's temporary restriction. The court took this action because the Town's long delay in developing a permanent LWRP, combined with a lack of real progress, made the delay occasioned by the moratorium on the shore owner's right to build a dock excessive and unconstitutionally void.

In *Mitchell v. Kemp*,¹⁸ the Appellate Division, Second Department, upheld the finding of the Supreme Court, Dutchess County, that the Town of Pine Plains's five-year moratorium exceeded a reasonable period of time for enacting a comprehensive, new zoning regulation.

In Ecogen, LLC v. Town of Italy,19 the court upheld

the Town's moratorium on wind energy projects. The moratorium had been in effect for over two years, but in view of the specific technical nature of the use involved, the court agreed to allow the Town an additional 90 days to either enact a comprehensive zoning plan or render a decision on the project sponsor's variance application.

What constitutes a reasonable duration for a moratorium, even where the municipality is fulfilling its duty to be working on a new plan or permanent legislation to address the issue at hand? Moratoria of six months, as well as of one year, have been upheld by the courts. It is unclear whether a moratorium lasting longer than a year would be considered reasonable, but that may depend, to an extent, on the subject matter addressed by the moratorium.

2) Valid Public Purpose.

The enactment of moratoria, like all exercises of the

The	e moratorium
mu	st be enacted
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pur	pose: to study
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police power, must be justified by a valid public purpose. A moratorium on land uses or development will be considered a valid interim measure if it is reasonably designed to temporarily halt development while the municipality considers comprehensive zoning

changes and the enactment of measures to specifically address the matters of community concern.

The purpose section of the local law or ordinance should state what the municipality hopes to accomplish during the moratoria. For example,

To develop or amend:

- A Comprehensive Plan
- Zoning Regulations

- Subdivision Regulations
- Site Plan Regulations
- Other Land Use Regulations

Or, to make improvements to:

- Road System
- · Water or Sewer Infrastructure

The decision in *Lake Illyria Corporation v. Town* of Gardiner²⁰ has frequently been cited for the proposition that a community must be actively engaged, among other things, in the revision of its comprehensive plan during a land use moratorium. A comprehensive plan addresses issues of growth and development on a community-wide basis. In the *Lake Illyria* case, the Third Department pointed out:

> " The purpose of 'stop-gap' zoning is to allow a local legislative body, pending decision upon the adoption of a comprehensive zoning ordinance, to take reasonable measures temporarily to protect the public interest and welfare until an ordinance is finally adopted. Otherwise, the eventual comprehensive zoning ordinance might be of little avail."

In Oakwood Island Yacht Club v. City of New Rochelle, the City of New Rochelle adopted a six month moratorium on building permits to halt development on an island within the city limits. The city halted the development because it had applied for a State grant to purchase the island. Petitioners, who had received site plan approval, applied for but were denied a building permit because the six month moratorium was in effect. The supreme court, in a decision affirmed by the Court of Appeals, held that the moratorium unconstitutionally deprived the owner of the property due process of law. Although the court recognized that a municipality may lawfully enact "stop-gap" legislation pending a revised comprehensive plan, the city's desire to acquire

the property was not a valid public purpose for a moratorium. The court said: "There is neither case authority nor statutory authority for adopting an ordinance to prevent a property owner from building upon his property because the municipality in the future may seek to obtain it by condemnation."²¹

In order to update their comprehensive plans to address the subject of cellular telephone facilities, some communities enacted moratoria on the processing of cellular applications pending completion of the planning process and the enactment of new regulations pertaining to towers. The public purpose for enacting moratoria on cellular facilities was important to courts in deciding cases on their validity. In the case of Cellular Telephone v. Town of Harrison,22 a 90-day moratorium on review or approval of cellular telephone antennae facilities was upheld as a reasonable measure designed to give the town a short period to enact zoning changes to address the increasing number of cellular telephone antenna applications. By contrast, the Appellate Division in Cellular Telephone v. Village of Tarrytown,²³ invalidated a moratorium on cellular telephone towers because it was not adopted for a proper and reasonable purpose. The court found that local officials were motivated by public opposition and the unsubstantiated fears of health risks from telecommunications signals, rather than a land use planning purpose.

3) Balancing benefits and detriments of the moratorium to the municipality.

The advantages to the municipality must outweigh the potential hardships to landowners. The municipality should be prepared to show that the burden imposed by a moratorium is being shared substantially by the public at large, as opposed to being visited upon a minority of landowners. This principle was explained by the Court of Appeals in *Charles v. Diamond*,²⁴ a case that dealt with restrictions on residential sewer connections. The court recognized that, in judging a moratorium on development, "the crucial factor and perhaps even the decisive one is whether the ultimate economic cost of the benefit is being shared by the members of the community at large, or rather, is being hidden from the public by the placement of the entire burden upon particular property owners".

In the *Charles* case, the Court concluded that "only where the municipality has acted, or refused to act, and the social cost of a benefit has been placed entirely upon particular landowners rather than spread throughout the jurisdiction, does it become necessary to review discretion and set aside unconstitutional confiscation . . . no single factor, by itself controls the determination of whether a particular municipal action is reasonable."

4) Strict adherence to procedures for the enactment of local laws and ordinances.

Whether enacted as local laws or ordinances, moratoria must strictly adhere with the procedural requirements of the Municipal Home Rule Law²⁵ or the rules for adoption or amendment of zoning in the State zoning enabling acts. These rules are found in Town Law sections 264 and 265, Village Law section 7-706 and 7-708, and in individual city charters. When enacting moratoria, municipalities should follow the procedures for enactment including newspaper notice, public posting, county referral, public hearing and filing after adoption of a local law.

Moratoria on zoning approvals are subject to referral to the county planning agency under General Municipal Law section 239-m. In the case of *B* & *L* Development v. Town of Greenfield²⁶, the court invalidated a one-year moratorium on the issuance of building permits and construction approvals because the town did not follow the procedural requirements for amending zoning. The court held that the moratorium law was subject to all of the statutory procedural requisites of zoning laws, including county referral pursuant to General Municipal Law section 239-m and notification of adjacent municipalities pursuant to Town Law section 264.

In the 1997 case of *Caruso v*. *Town of Oyster Bay*,²⁷ the court held that the town board had no

jurisdiction to adopt a local law establishing a moratorium on the issuance of building permits for new home construction in a defined area of the town. The Town had failed to properly refer the law first to

Where the moratorium acts as an amendment to zoning, it must be referred to the county planning agency under General Municipal Law section 239-m.

the county planning commission, as required by General Municipal Law section 239-m.

In Temkin v. Karagheuzoff,28 the Appellate Division invalidated a "stop-gap" zoning amendment that effectively imposed a moratorium on the issuance of building permits for new nursing homes. Although the moratorium was enacted to maintain the status quo in case the zoning regulations were changed, the court held that the Board of Estimate could not enact even a short-term interim zoning resolution without complying with the NYC Charter, which required the recommendation of the City Planning Commission. The amendment was struck down because the court found that the City of New York failed to follow proper procedures in enacting the stop-gap zoning. The Court of Appeals affirmed,29 stating that "there is no question here of the right of a government to adopt interim or stopgap zoning. The only contention is that when such resolutions are adopted, they must be adopted in accordance with the law."30

Not all moratoria on land use approvals can be categorized as zoning. Where non-zoning moratoria are adopted by local law, the procedures of Municipal Home Rule Law sections 20 through 27 must be followed.³¹

One example is the moratorium on the processing or approval of subdivision plats by planning boards. Of particular concern is that the State subdivision statutes provide for default approval of a subdivision if the planning board fails to meet certain time frames. A moratorium which suspends action on subdivision applications may delay action beyond the time frames. Therefore, it is has become common practice for municipalities to adopt the moratorium by a local law which supersedes and suspends the applicable default approval provisions in Town Law or Village Law.

In 1987, the Court of Appeals dealt with a moratorium on subdivision approvals in the landmark case of Turnpike Woods, Inc., v. Town of Stony Point.³² The town had adopted a local law temporarily suspending the authority of the town planning board to approve subdivision plat applications. Following refusal by the planning board to consider his application, a developer sued for a default approval. Under Town Law section 276 default approvals may be secured by the developer if the planning board fails to make a decision on a subdivision application within the time period required by the statute. The developer claimed the town had not followed proper local law adoption procedures under the Municipal Home Rule Law in attempting to supersede that default approval provision. The Court of Appeals agreed with the developer and struck down the moratorium law.

Moratoria are "Type II Actions" under the State Environmental Quality Review Act (SEQRA) regulations, which means that SEQRA does not apply to the enactment of moratoria (6 NYCRR section617.5(c)(30)). The proposed adoption of a The State Environmental Quality Review Act (SEQRA) does not apply to moratoria. moratorium does not require a determination of significance or the preparation of any other SEQRA documents.

5) Time certain for expiration of

moratorium. The courts have required a time certain for the expiration of a moratorium. In *Russo* v. *New York Stale Department of Environmental Conservation*,³³ it was held that where there was a moratorium on the alteration of wetlands for over three years and no indication as to when it would end, *the court could inquire as to the constitutionality of the moratorium;* the court said that the duration cannot be unreasonable and ordered DEC to set a date certain for the termination of the moratorium on the alteration of wetlands.

VARIANCES FROM THE MORATORIUM

In addition to the procedural rules for *enacting* a moratorium, the courts have addressed the question of the procedure to be followed *during* a moratorium.

A moratorium law often contains a mechanism that allows landowners to apply for relief from the moratorium. If the moratorium affects zoning, appeals from the moratorium are taken to the zoning board of appeals using the statutory standards for granting use or area variances. In the case *Held v. Giuliano*,³⁴ the Appellate Division, held that applications for variances from an interim zoning ordinance must meet the same statutory standards for variances as though the interim zoning was permanent.³⁵

It is quite common in moratorium laws that variances from the strict terms of the moratorium are granted by the *governing board* rather than by the zoning board of appeals. If the governing board will be considering variances in moratoria related to zoning instead of a board of appeals, the moratoria must supersede State statutes pertaining to the variance authority of boards of appeals. The drafters of land use moratoria should bear in mind that this procedure will require proper use of the supersedure power, as the enabling laws provide that only the board of appeals may grant variances.

THE "TAKINGS" ISSUE

As we have seen, the courts have established strict rules, both as to the procedural as well as to the substantive requisites of moratoria. The substantive rules might be said to embody a particular adaptation of the general principle that any enactment affecting private property rights must "bear a substantial relation to the public health, safety, morals, or general welfare."³⁶ If, however, a land use regulation operates to deprive the owner of all beneficial economic use of the property, may that owner be entitled to monetary compensation under the Fifth and Fourteenth Amendments to the U.S. Constitution?

Early cases recognized the principle of inverse condemnation (i.e., a regulatory taking).³⁷ Until 1987, however, the courts had not considered temporary land use controls (such as moratoria) to amount to a deprivation of all beneficial use in the property. In cases where a regulation went "too far," and impacted an owner unfairly, the remedy was to strike down the local enactment and allow the owner to build.³⁸ In 1987, the United States Supreme Court changed that rule with its decision in First English Evangelical Lutheran Church of Glendale v. County of Los Angeles.³⁹ First English involved a challenge, brought against a county's moratorium on the construction or reconstruction of buildings within an "interim flood protection area." The moratorium effectively made it impossible for the church to rebuild a campground that had been previously destroyed by a flood.

In *First English*, the U.S. Supreme Court held for the first time that temporary takings that deny a landowner all use of his/her property are not different in kind from permanent takings. Once a court determines that a taking has occurred, it must award damages for the period of time the restrictive regulation was in effect.

Whether a moratorium is a compensable taking, as it relates to specific property, depends on the facts of each case. Significantly, the Supreme Court left it to the trial level courts to determine in each case whether a temporary taking has actually occurred, i.e., whether the regulation denied the owner all use of his/her

property. The latter principle was further clarified by the Court in its 1992 decision in *Lucas v. South Carolina Coastal Council*,⁴⁰ where it held that a taking could only occur in "the extraordinary circumstance when *no* productive or economically beneficial use of land is permitted."

Could land use moratoria amount to compensable takings of property according to the rules established in *First English* and *Lucas*? Theoretically, yes, but, in practice, such determinations will rest on the facts of each case.

In its 2002 decision in *Tahoe-Sierra Preservation Council, Inc. v. Tahoe Regional Planning Agency*,⁴¹ the Supreme Court firmly rejected the argument that a temporary moratorium on development, enacted for reasonable purposes, necessarily constitutes a deprivation of the owner's beneficial use of his or her property. In *Tahoe-Sierra*, an interstate regional planning agency had adopted moratoria on all construction in certain areas surrounding Lake Tahoe, pending the adoption of a permanent land use plan and revised development restrictions designed to protect the water quality of the lake. In ruling against the claims of landowners, the Court held that one cannot separate out a finite stretch of time in the life of a parcel and compensate the owner simply because the owner is deprived of the property's beneficial use during that stretch of time alone. Instead, the analysis must be the same as that which is applied in all regulatory takings arguments: the courts must weigh all the relevant factors affecting the "parcel as a whole." In *Tahoe-Sierra*, the Supreme Court held that a moratorium, like most other land use regulations, is subject to an inquiry that considers the circumstances of each case. Moratoria are not, therefore, *categorically* takings. Indeed, many parcels will emerge from a moratorium with *enhanced* value, owing to the better land use regulations then in place.

In evaluating whether a land use regulation takes all economic value of property, the language used by the Court of Appeals in *Golden* is worth noting: "The fact that the ordinance limits the use of, and may depreciate the value of the property will not render it unconstitutional . . . unless it can be shown that the measure is either unreasonable in terms of necessity or the diminution in value is such as to be tantamount to a confiscation . . . "

The New York courts appear to have applied a case-specific balancing analysis even prior to *Tahoe-Sierra*. Since the *First English* case was decided, at least one community's moratorium has been upheld against a takings claim. Quoting language from earlier cases, the Appellate Division, Second Department, stated that a moratorium adopted by the Village of Irvington constituted "a reasonable measure designed to temporarily halt development while the [Village] considered comprehensive zoning changes and was therefore a valid stopgap or interim measure."⁴² The moratorium was held not to effectuate an unconstitutional taking of private property.

However, in *Seawall Associates v. City of New* York,⁴³ the Court of Appeals *did* hold a moratorium to be an unjust taking. The City of New York had adopted a local law placing a fiveyear moratorium on conversion, alteration or demolition of single-room-occupancy units in multiple dwellings. The law also required the owners to restore such units to habitable conditions and to lease them at controlled rents for an indefinite period. The Court of Appeals held that the law effectuated an unconstitutional taking under the Fifth and Fourteenth Amendments. The Court viewed the NYC law as locking the owners of "SRO's" into maintenance of a use that did not allow them any ability to realize an economic return on their investment.

If a landowner feels that a moratorium law as applied constitutes a taking, the landowner must first exhaust all available administrative procedures before bringing a lawsuit. In the 1990 case of Hawes v. State,44 the State Legislature had enacted a moratorium on development along Beaverdam Creek in the Town of Brookhaven, to allow the Department of Environmental Conservation time to study the creek for possible inclusion in the State's Wild, Scenic and Recreational Rivers System. A landowner filed an action claiming the moratorium effectuated an unjust taking. The Appellate Division, Second Department, dismissed the case, stating that it was possible for the owner to have applied to DEC for a permit first, before going to court. The permit, if granted, could have exempted the parcel from the moratorium on the basis that the proposed development would not be contrary to the policy of the Wild, Scenic and Recreational Rivers Act. Since the owner had not so applied, the taking claim could not be heard.

Vested Rights

Landowners who are aware that a moratorium is under consideration may act promptly to acquire "vested rights" in a use before the moratorium takes effect. Under ordinary circumstances, a moratorium enacted in good faith and according to proper procedures is viewed much the same as any zoning amendment: a property is bound by the moratorium the day it takes effect, unless the property owner has acquired a "vested right" to build or use the property beforehand.⁴⁵ A moratorium may not be used to stop building operations begun under a valid building permit and which continued in good faith when the property owner had secured vested rights.

Under what circumstances, then, might an owner be able to claim a right to build or to use the property according to the law as it existed prior to the effective date of a moratorium? The Court of Appeals has established a rule regarding vested rights that applies to land use regulations in general. The rule was first articulated in *People v*. *Miller*,⁴⁶ and has most definitively been restated by the Court in *Ellington Construction Corp. v*. *Zoning Board of Appeals of the Incorporated Village of New Hempstead*,⁴⁷ to wit:

> "where a more restrictive zoning ordinance [ie- a moratorium] is enacted, an owner will be permitted to complete a structure or a development which an amendment has rendered nonconforming only where the owner has undertaken substantial construction and made substantial expenditures prior to the effective date of the amendment."

The application of this "substantial construction, substantial expenditures" test will, of course yield results particular to each set of facts. In two cases in particular, the lower courts declined to find vested rights. In *Pete Drown, Inc. v. Town Board of the Town of Ellenburg*,⁴⁸ the Town, which had no zoning regulations, passed a local law establishing a moratorium on the construction of new commercial buildings. About a year later the moratorium was replaced by a comprehensive zoning law that prohibited the incineration of commercial or hazardous waste. During the moratorium a landowner had spent more than \$850,000 on a project to site a commercial waste incinerator, including purchase and storage of the incinerator itself, pending the lifting of the moratorium and approval of the project. In a lawsuit, the owner claimed to have acquired vested rights to operate the incinerator. The Appellate Division disagreed and held that there had been no substantial construction or change to the land itself and that there was no showing that the owner could not recoup its expenditures in the marketplace-presumably by selling the stored incinerator. While the absence of substantial construction in and of itself would have been sufficient to defeat the owner's claim of vested rights, the court also held that the owner's expenditures, recoverable as they were, did not constitute the "serious loss" required by the courts in prior cases.

In Steam Heat, Inc. v. Silva,⁴⁹ the Appellate Division, Second Department, upheld the New York City Board of Standards and Appeals's determination that a landowner had not accomplished substantial completion of his building before a moratorium went into effect, even though there was evidence that he had made some expenditures. The Court sustained the finding that the construction which occurred was of the "most basic and impermanent nature with rudimentary detailing and flimsy and inexpensive materials" and therefore insubstantial.

Drafting a Moratorium Law

By now, there is sufficient case law on the subject of moratoria to furnish guidance to those community officials desiring to draft one. The following precepts should be followed:

(a) Adopt the moratorium in the form of a *local law*, the simplest and strongest form of municipal enactment, even if the existing zoning regulations are in the form of an ordinance. Although it is possible to amend an existing ordinance via a new ordinance in cities and towns, the use of a local law will avoid any uncertainty surrounding basic legal authority.

(b) In a municipality with an existing zoning ordinance or local law, the moratorium should be treated as an amendment to that ordinance or local law. The applicable procedural requirements--e.g., notice, hearing and possible county referral--must be strictly followed.

(c) The moratorium should clearly define the activity affected, and the manner in which it is affected. Does the moratorium affect construction itself? Does it affect the issuance of permits? (The permitting official will want to know this.) Does it affect actions by boards or commissions within the municipality? May project review continue, or must it, too, be stopped?

(d) If the moratorium supersedes any provision of either the Town Law or the Village Law, then the moratorium must be adopted by local law, using Municipal Home Rule Law procedures. It must also state, with specificity, the section of the Town or Village Law being superseded. In particular, where the moratorium suspends subdivision approvals, it must be made clear in the moratorium law that the "default approval" provisions of the subdivision statutes of the Town or Village Law (as the case may be) are superseded.

(e) Establish a valid public purpose for the moratorium with a preamble that recites the nature of the particular land use issue, as well as the need for further development of the issue in the community's comprehensive plan and/or in its current land use regulations. Refer to the fact that time is needed for community officials to comprehensively address the issue without having to allow further development during that time. Such a statement will help make it clear that the benefits to the community outweigh the potential burden to the landowners.

(f) Be sure the moratorium states that it is to be in effect for a defined period of time. The moratorium should be for a time no longer than absolutely necessary for the municipality to place permanent regulations in effect.

(g) The moratorium should include a mechanism allowing affected landowners to apply to a local board for relief from its restrictions, or it should contain a clear reference to the fact that an owner may make use of the existing variance procedures under the current zoning regulations. If a board other than a zoning board of appeals will execute this authority, the moratorium should enacted using the supersession authority (see "(d)" above).

Conclusion

As communities continue to grow, the pressures for further development may well increase. Ideally, a community's comprehensive plan and its land use regulations will be adequate to deal with those pressures. But the ideal is rarely the fact. Such pressures may lead to calls for a halt to particular types of development, or to development in particular areas, until municipal leaders have had a reasonable opportunity to formulate a comprehensive regulatory approach. Moratoria will, therefore, continue to be adopted. It is hoped that this publication, along with others in such areas as comprehensive planning, zoning and subdivision control, will serve as a useful guide to those community officials involved in the process.

ENDNOTES

1. Charles v. Diamond, 41 N.Y.2d 318, 324 (1977).

2. See People ex rel. St. Albans-Springfield Corp. v. Connell, 257 N.Y. 73 (1931); Arverne Bay Construction Co. v. Thatcher, 278 N.Y. 222 (1938).

3. 58 F.2d 784 (D.C. Va., 1932).

4. 52 Misc.2d 815 (Sup. Ct., Oneida Co., 1966). The validity of this type of moratoria had been upheld by the Courts even earlier. In sustaining a 60 day moratorium in *Hasco Electric Corp. v. Dassler*, 143 N.Y.S.2d 240 (Sup. Ct., West. Co., 1955), the Supreme Court stated that it "was inclined to the opinion that the local legislative body was vested with the authority to enact reasonable stop-gap or interim legislation prohibiting the commencement of construction for a reasonable time during consideration of proposed zoning changes."

5. 35 N.Y.2d 507 (1974).

6. 35 N.Y.2d at 512.

7. "Mere financial loss is not enough, but the restriction on use must be so great as to deprive the owner of any reasonable use of the property to which any owner would be generally entitled to put the property." *Charles v. Diamond* 41 N.Y.2d 318, 326 (1977).

8. 41 N.Y.2d 318 (1977).

9. 41 N.Y.2d at 323-324 (citations omitted).

10. 23 N.Y. 2d 424 (1969).

11. 30 N.Y.2d 359 (1972).

12. See Albany Area Builders Association v. Town of Clifton Park, 172 A.D.2d 54 (3rd Dept., 1991).

13. Tahoe-Sierra Preservation Council, Inc. v. Tahoe Regional Planning Agency, 535 U.S. 302, 341-342 (2002): "It may well be true that any moratorium that lasts for more than one year should be viewed with special skepticism. But given the fact that the District Court found that the 32 months required by [Tahoe Regional Planning Agency] to formulate the 1984 Regional Plan was not unreasonable, we could not possibly conclude that every delay of over one year is constitutionally unacceptable."

14. 43 A.D.2d 386 (3rd Dept., 1974).

15. 43 A.D.2d at 388.

16. 108 A.D.2d 914 (2nd Dept., 1985).

- 17. 153 Misc.2d 521 (Sup. Ct., Suffolk Co., 1991).
- 18. 176 A.D. 2d 859 (2nd Dept., 1991).
- 19. 438 F. Supp.2d 149 (W.D.N.Y., 2006).

20. 43 A.D.2d 386 (3rd Dept., 1974).

21. See Oakwood Island Yacht Club, Inc. v. City of New Rochelle, 59 Misc.2d 355 (Sup. Ct., Westch. Co., 1969), affirmed 36 A.D.2d 796 (2nd Dept. 1971), affirmed 29 N.Y.2d 704 (1971).

22. 11/30/95 N.Y.L.J. p. 35 col. 3 (Sup. Ct. Westchester Co.)

23. 209 A.D.2d 57 (2nd Dept. 1995).

24. 41 N.Y.2d 318 (1977).

25. Municipal Home Rule Law section 10 and sections 20 -27.

26. 146 Misc.2d 638 (Sup. Ct., Saratoga Co., 1990).

27. 172 Misc.2d 93 (Sup. Ct., Nassau Co., 1997).

- 28. 43 A.D.2d 820 (1st Dept. 1974) affd 34 N.Y.2d 324 (1974).
- 29. 34 N.Y.2d 324 (1974).
- 30. 34 N.Y.2d at 328.
- 31. See Pete Drown, Inc. v. Tn. Bd. of the Tn. of Ellenburg, 229 A.D.2d 877 (3rd Dept., 1996).
- 32. 70 N.Y.2d 735 (1987).
- 33. 55 A.D.2d 935 (2nd Dept. 1977)

34. 46 A.D.2d 558 (3rd Dept., 1975).

35. Those standards are now set forth in the State enabling statutes, General City Law section 81-b, Town Law section 267-b, Village Law section 7-712-b. The courts will apply them in the same manner as for variances in general. See *Montgomery Group*, *LLC v. Town of Montgomery*, 4 A.D.3d 458 (2nd Dept., 2004).

36. See Nectow v. City of Cambridge, 277 U.S. 183 (1928).

37. See Pennsylvania Coal Co. v. Mahon, 260 U.S. 393 (1922).

38. See Agins v. Tiburon, 24 Cal.3d 266 (Sup. Ct. of Calif., 1979), aff'd on oth. grds., 447 U.S. 255 (1980).

39. 482 U.S. 304 (1987).

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40. 505 U.S. 1003 (1992).

41. 535 U.S. 302 (2002).

42. See 119 Development Associates v. The Village of Irvington, 171 A.D.2d 656 (2nd Dept., 1991).

43. 74 N.Y.2d 92 (1989), cert. den., 493 U.S. 976 (1989).

44. 161 A.D.2d 745 (2nd Dept., 1990); see also, *Timber Ridge Homes at Brookhaven, Inc., v. State*, 223 A.D.2d 635 (2nd Dept., 1996).

45. See Matter of West Lane Properties v. Lombardi, 139 A.D.2d 748 (2nd Dept., 1988); Home Depot, U.S.A., Inc. v. Village of Rockville Centre, 295 A.D.2d 426 (2nd Dept., 2002).

46. 304 N.Y. 105 (1952).

47. 77 N.Y.2d 114, 122 (1990) (emphasis added). See also *Masi Management*, *Inc. v. Town of Ogden*, 180 Misc.2d 881 (Sup. Ct., Monroe Co., 1999).

48. *Supra*, note 9.

49. 230 A.D.2d 800 (2nd Dept., 1996).

EXHIBIT EE

Woodlands 2020



I would like to speak in strong favor of the two Woodlands 2020 proposals submitted by 13th Floor Homes to change the zoning in the Woodlands community. Some of my reasons for favoring these proposals are as follows:

- **Tax Revenue** Tamarac and Broward County need an infusion of new tax funds in order to continue to grow and serve its citizens. Numerous retail establishments and restaurants in this area have closed over the past several years, their properties remain vacant or converted into non-taxable churches. There has also been a change in the types of restaurants and business establishments opening in the region, possibly indicating the beginning of a decline. An added, upscale development in the Woodlands will help change the dynamic of business closings and openings. Again, increasing tax revenues and improving the area.
- **Traffic** A large portion of the opposition to the development proposals center around potential traffic increase problems. Over the past 7 years, the volume of traffic already has been increasing steadily; it will continue to increase with or without the development here. The Woodlands 2020 proposal includes improvements for roads and intersections for us that would help with the traffic flow; these improvements are already needed.
- **Infrastructure** The Woodlands' infrastructure (nearly 50-years old) is in bad shape (soon to be critical) and needs to be updated, especially rain water drainage. The 13th Floor homes proposal includes much of these needed improvements for which we, the area home owners, would have to pay a substantial amount in the next decade. I really like this money-saving idea. The sewage system is as old as the ones that recently broke in Ft. Lauderdale; we do not need for that to happen here; we need improvements.
- **Gated Community** Ever since I moved into the Woodlands in 2013, there has been requests by neighbors through the newsletter and website to make it a gated community. I am under no illusion that this improvement would be a security one. It is a property-value-increasing improvement.
- **Decreasing Golfers** I live right on one of the courses. I see fewer and fewer golfers each month. I do not see how the course stays open with so few customers. Someone is going to buy these golf courses sooner or later and many developers would probably be less open to our input. 13th Floor Homes has been very receptive to our ideas. I like working with someone known, rather than someone unknown in the future.
- **Property Values** Property value increases for the Woodlands has lagged behind the most of Broward County in recent years. Is it because of the aging infrastructure, the decline of business in the region, or the growing congestion? Maybe it is due to other reasons. Building \$400K + home here would help our property value as well, especially with a new community center, pool, fitness center, etc. being built. The nature trails will also improve values. I am looking forward to these improvements.
- **Quality of Life** I love living on a golf course. It is beautiful and peaceful in the evenings (except for neighbor golfing for free). I moved into The Woodlands for these reasons. However, when my grandchildren and friends visit, they cannot play on the course due to the many chemicals used to maintain it. The proposed changes include more family-oriented space, walking trials, and other activities, as well as fewer toxins in the ground. The increased quality of life for all residents will be appreciated by most residents.

Please vote to approve the 13th Floor Homes zoning change proposals. Tamarac, as a city, needs it; Woodlands, as a community, needs it; my home and family need it.

Thank you for listening to my input.

Barry and Shirley Bleidt Woodlands Community Homeowners 5007 North Travelers Palm Lane Tamarac, FL 33319

EXHIBIT FF

From:Carlton AnglinTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Tuesday, March 3, 2020 12:05:10 AM

Dear Mayor & Commissioners,

I support the development because I believe it will revitalize our community which is in decline.

The opposition has no solutions only objections with no alternatives.

Regards, Carlton and Jennifer Anglin

callanglin@gmail.com,

5300 Woodlands Blvd 33319

EXHIBIT GG

From:Heima MaharajTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Friday, March 6, 2020 8:10:56 AM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Heima Maharaj

Hmaharaj@live.com, (954) 865-0616

5901 Breadfruit Circle

EXHIBIT HH

From:Vashista JadoonananTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Tuesday, March 10, 2020 9:24:29 AM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Vashista Jadoonanan

vjhomes.fl@gmail.com, (954) 801-8038

5305 Buttonwood Ct. Tamarac fl 33319

EXHIBIT II

From:Gail JonesTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Saturday, March 14, 2020 12:27:46 PM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Gail Jones

gjonesfl@bellsouth.net, (954) 718-9727

6008 Red Plum Court

EXHIBIT JJ

From:Michael CoardTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Saturday, March 14, 2020 12:30:22 PM

External Email

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Michael Coard

Mcoard954@gmail.com, (954) 303-5400

5609 Mulberry dr, tamarac, fl 33319

EXHIBIT KK

From:Debra QuintonTo:Blake Boy, BarbaraSubject:I Support the Woodlands 2020 Vision PlanDate:Saturday, March 14, 2020 11:48:41 AM

Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because development of the course is inevitable and I'm happy with the vision plan.

Sincerely,

Debra Quinton

deb@itsasnapdesign.com, (410) 446-4292

7530 N. Devon Drive, Tamarac, FL 33321

EXHIBIT LL

From:	Karen Malkoff
To:	<u>Blake Boy, Barbara</u>
Subject:	I Support the Woodlands 2020 Vision Plan
Date:	Thursday, March 19, 2020 7:36:37 AM

External Email

Dear Mayor & Commissioners,

I support the 13th Floor development in the Woodlands Country Club area. They have shown they are willing to compromise with us as they have met with all of the residents. If 13th floor is not the developer then who? The people opposing this development have no alternative in mind. Most of the opposers are ONLY concerned with their OWN property not what is best for the Woodlands. The golf courses WILL be sold. In the best interest of the Woodlands let's allow 13th floor to continue with the process of their development. I'm sure you will vote in favor of the 13th Floor continuing as it is the only viable decision to make. Remember our votes count in the elections.

Regards,

Noidea101@bellsouth.net, (954) 647-9744

4806 Banyan Lane

EXHIBIT MM

From: Julie Negovan <<u>negovan.julie@gmail.com</u>> Sent: Monday, June 8, 2020 12:17 PM To: Blake Boy, Barbara <<u>BBLAKEBOY@broward.org</u>> Subject: Support for the Woodlands 2020 Vision Plan

Dear Mayor & Commissioners,

We support the Woodlands2020 project. We just purchased a house in the Woodlands development and look forward to the improvements planned through development. This seems like a very positive thing for the community.

Regards, Julie and Mark Negovan

negovan.julie@gmail.com, (215) 431-9295

6001 Umbrella Tree Lane

EXHIBIT NN

From: Demetria Rawls <<u>demerene@hotmail.com</u>> Sent: Wednesday, June 24, 2020 12:57 AM To: Planning Council <<u>PlanningCouncil@broward.org</u>> Subject: Woodlands building Opposition

I am a long time Broward County resident and chose to move into Lauderhill out of Many choices of cities in Broward county because of the economic development of the city. In addition I moved to Forest Lake Estates for the security and location.

I was made aware of a plan of the city of Tamarac to allow 13th homes to build 400 homes in a already heavily densed neighborhood and I strongly oppose this. I am wholeheartedly AGAINST allowing this builder to build hundreds of homes and destroy the golf course and the view of nature. This planning committee would never allow this in Weston or Parkland and shouldn't allow it in Tamarac. God isn't building more land so we need to respect and cherish what we have. Let's be honest, If the city of Tamarac and 13th builders are allowed to get access to this community it would actually mean more crime, traffic infractions, devalue our homes and add a negative consequences. In the last 3 years Commercial Blvd has been over build and is becoming a night mare for traffic. We do not need anymore homes to be build off Commercial Blvd especially not 400 of them.

In summary, please do not give these builders who build properties and move on from development to development an opportunity to ruin what is perfectly fine. I along with nearly thousands of homes will be directly affected by this decision.

I am open to be contacted for additional questions. Thank you for this opportunity and stay safe.

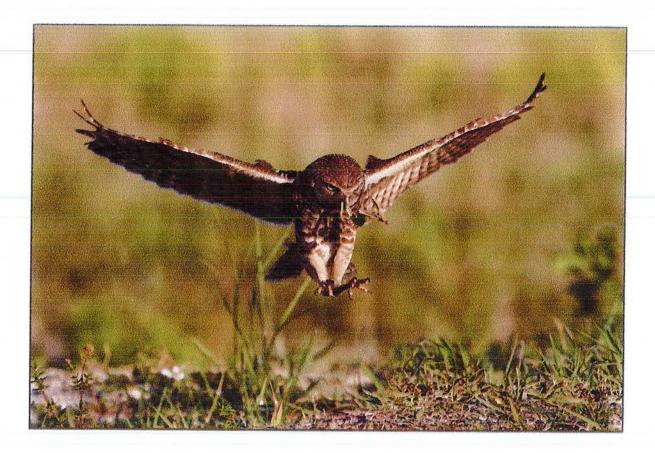
Demetria Jackson Rawls

Demetria Jackson Rawls

EXHIBIT OO TO: Broward County Commissioners RE: Proposed Regoning of 2 Solf 6/16/20 Courses in Woodlands, Tamarae Sirs: Eveloed please find the 25 page report of the endougered Florida Burrowing Out sated 11/1/13 by the Florida 7th & Wildlife conservation Commission Please adds It to the printed motion when the inne re: above comes up for defote. Thanks. Alven ROSALD R. COLES 4813 Barryon love Tamaroe, FC 33319 also at 207-229-5321 and RRC legal @ yolios.com RECEIVED JUL 1 3 2020 COUNTY ADMINISTRATION BROWARD COUNTY PLANNING COUNCIL JUN18'20 PK3:33

A Species Action Plan for the Florida Burrowing Owl Athene cunicularia floridana

> Final Draft November 1, 2013





Florida Fish and Wildlife Conservation Commission 620 South Meridian Street Tallahassee, FL 32399-1600 Visit us at <u>MyFWC.com</u>

FLORIDA BURROWING OWL ACTION PLAN TEAM

Team Leader:	Katherin Haley Parsons, Division of Habitat and Species Conservation
Team Members:	Mark Asleson, Division of Habitat and Species Conservation Ron Bielefeld, Fish and Wildlife Research Institute Alex Kropp, Division of Habitat and Species Conservation
Acknowledgements:	Laura Barrett, Division of Habitat and Species Conservation Brian Beneke, Fish and Wildlife Research Institute Claire Sunquist Blunden, Office of Policy and Accountability Robin Boughton, Division of Habitat and Species Conservation Brie Ochoa, Division of Habitat and Species Conservation

Cover photograph by Ron Bielefeld, Florida Fish and Wildlife Conservation Commission

Recommended citation:

Florida Fish and Wildlife Conservation Commission. 2013. A species action plan for the Florida burrowing owl. Tallahassee, Florida.

Florida Fish and Wildlife Conservation Commission

EXECUTIVE SUMMARY

The Florida Fish and Wildlife Conservation Commission (FWC) developed this plan in response to the determination that the Florida burrowing owl (*Athene cunicularia floridana*) be listed as Threatened on the Florida Endangered and Threatened Species List. The goal of this plan is to improve the conservation status of the Florida burrowing owl to a point that the species can be removed from the Florida Endangered and Threatened Species List.

Objectives are to: 1) maintain a stable or increasing population trend for the Florida burrowing owl within 10 years; 2) determine if Florida burrowing owls exist as 1 or more populations, and assess and monitor the status of the existing population(s); 3) protect and manage burrowing owl habitat to ensure long-term population viability; 4) minimize impacts of development and other land-use conversion on burrowing owls; and 5) expand awareness and shared responsibility among stakeholders and partners to manage and protect burrowing owls and their habitat. Priority conservation actions that will promote the objectives of this plan include developing a current population size estimate and a mechanism to monitor population trends. Given loss of habitat and indications of population decline, immediate action should be taken to verify population status and, if confirmed, to address threats to the species. Activities may include creating partnerships with local governments, developing conservation guidelines, and improving enforcement of rules protecting owls and their burrows.

This plan details the actions necessary to improve the conservation status of the Florida burrowing owl. A summary of this plan will be included in the Imperiled Species Management Plan (ISMP), in satisfaction of the management plan requirements in Chapter 68A-27, Florida Administrative Code, Rules Relating to Endangered or Threatened Species. The ISMP will address comprehensive management needs for 60 of Florida's imperiled species and will include an implementation plan; rule recommendations; permitting standards and exempt activities; anticipated economic, ecological, and social impacts; projected costs of implementation and identification of funding sources; and a revision schedule.

The imperiled species management planning process relies heavily on stakeholder input and partner support. Successful management of the Florida burrowing owl through implementation of this plan requires the cooperation of local, state, and federal governmental agencies; non-governmental organizations; business and industrial interests; universities and researchers; and the public. This level of involvement and support is also critical to the successful implementation of the ISMP. Any significant changes to this plan will be made with the continued involvement of stakeholders.

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GLOSSARY OF TERMS AND ACRONYMS

- Annual Recruitment: Annual recruitment is the process by which young are added to the fall population by reproduction from adults in the spring population.
- ARC: Acquisition and Restoration Council. A 10-member group with representatives from 4 state agencies, 4 appointees of the Governor, 1 appointee by the Florida Fish and Wildlife Conservation Commission (FWC), and 1 appointee by the Commissioner of Agriculture and Consumer Services. ARC has responsibility for the evaluation, selection, and ranking of state land acquisition projects as well as the review of management plans and land uses for all state-owned conservation lands.
- BBA2: The Breeding Bird Atlas II. A project coordinated by the Florida Ornithological Society.
- BRG: Biological review group, a group of taxa experts convened to assess the biological status of taxa using criteria specified in Rule 68A-27.001, Florida Administrative Code, and following the protocols in the Guidelines for Application of the International Union for Conservation of Nature (IUCN) Red List Criteria at Regional Levels (Version 3.0) and Guidelines for Using the IUCN Red List Categories and Criteria (Version 8.1).
- BSR: Biological status review report, the summary of the biological review group's findings. Includes an FWC staff recommendation on whether or not the species status meets the listing criteria in Rule 68A-27.001, F.A.C. These criteria, based on IUCN criteria and IUCN guidelines, are used to help decide if a species should be added or removed from the Florida Endangered and Threatened Species List. In addition, FWC staff may provide within the report a biologically justified opinion that differs from the criteria-based finding.
- DISTANCE Sampling Techniques: A method to obtain a reliable estimate of density of objects while accounting for differences in detection probability caused by such factors as differences in observer ability, habitat make-up, and time of day.
- DNA: Deoxyribonucleic acid
- F.A.C.: Florida Administrative Code. The Department of State's Administrative Code, Register and Laws Section is the filing point for rules promulgated by state regulatory agencies. Agency rulemaking is governed by Chapter 120, Florida Statutes, the Administrative Procedures Act. Rules are published in the Florida Administrative Code.

F.S.: Florida Statutes

- FWC: The Florida Fish and Wildlife Conservation Commission, the state agency constitutionally mandated to protect and manage Florida's native wildlife resources.
- FWRI: The Florida Fish and Wildlife Research Institute, the fish and wildlife research branch of the FWC.

GIS: Geographic Information System

- HSC: Habitat and Species Conservation, the species conservation and habitat management division of the FWC.
- ISMP: Imperiled Species Management Plan
- IUCN: International Union for Conservation of Nature, a professional global conservation network.
- IUCN Red List: (IUCN Red List of Threatened Species) An objective, global approach for evaluating the conservation status of plant and animal species, the goals of which are to: Identify and document species most in need of conservation attention if global extinction rates are to be reduced; and provide a global index of the state of change of biodiversity.
- LAP: Landowner Assistance Program
- Line Transect: A method of surveying to determine the abundance of an animal's population using systematic or random placement of survey lines within the animal's range. These lines are traversed by researchers and all encounters with the species of interest are recorded and then analyzed to obtain a density estimate.
- Macro-habitat: A habitat of sufficient extent to provide a variety of ecological niches and variation in environment, flora, and fauna.
- MBTA: Migratory Bird Treaty Act (16 U.S.C. 703–711), the federal statute that protects nearly all native birds, their eggs and nests. Specifically, the statute makes it unlawful to "pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to purchase, purchase, deliver for shipment, ship, cause to be shipped, deliver for transportation, transport, cause to be transported, carry, or cause to be carried by any means whatever, receive for shipment, transportation or carriage, or export, at any time, or in any manner, any migratory bird, included in the terms of this Convention . . for the protection of migratory birds . . or any part, nest, or egg of any such bird."
- PIT (PIT Tag): Passive Integrated Transponder. PIT tags are an implanted tag that is used when an individual animal needs to be identified. The tag contains a series of numbers and letters that can be read by passing a "PIT tag reader" over the implanted tag.
- Point Transect: Similar to a line transect except instead of traversing a line and recording animals encountered, the observer stands at a predetermined point and records all animals indicated within an area 360 degrees around that point.
- Population: The total number of individuals of the taxon. Population numbers are expressed as numbers of mature individuals only (as defined by IUCN).

RAD: Restriction Site Associated DNA Markers. RAD tags or markers are a type of <u>genetic</u> <u>marker</u> that are useful for association mapping, <u>Quantitative Trait Loci-</u> <u>mapping</u>, <u>population genetics</u>, ecological genetics and evolution. The use of RAD markers for genetic mapping is often called RAD mapping. An important aspect of RAD markers and mapping is the process of isolating RAD tags, which are the DNA sequences that immediately flank each instance of a particular restriction site of a <u>restriction</u> <u>enzyme</u> throughout the genome. Once RAD tags have been isolated, they can be used to identify and genotype DNA sequence polymorphisms mainly in form of <u>single nucleotide</u> <u>polymorphisms</u>. Polymorphisms that are identified and genotyped by isolating and analyzing RAD tags are referred to as RAD markers.

Rural: Includes all areas not classified as urban areas.

Stable Isotope Measurements/Ratios: Ratios of various isotopes of elements such as carbon in individual animals. These ratios are used to assess and compare habitat use and migratory connectivity of groups/populations of those animals.

Subspecies: A biological classification that represents a race or variety of a species.

Take: As defined in Rule 68A-27.001(4), F.A.C., "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in such conduct."

Urban: Areas of high-density development including cities, large towns, and suburban areas.

INTRODUCTION

Biological Background

The Florida burrowing owl (*Athene cunicularia floridana*) is geographically distinct from those (*A. c. hypugaea*) occurring in the western United States and is unique among North American burrowing owls in that it is the only burrowing owl to exist east of the Mississippi River (Haug et al. 1993). The Florida subspecies occurs primarily in peninsular Florida although isolated pairs and small colonies have been found as far west as Eglin Air Force Base and as far south as the

Dry Tortugas. Its distribution is localized and patchy, especially in the northern part of its range (Figure 1).

Appearance

The burrowing owl is a small bird averaging 23 cm (9 in) in height with a mean wingspan of 26 cm (21 in). The burrowing owl spends most of its time on the ground, where its sandy brown plumage provides camouflage from potential predators. The burrowing owl lacks the ear tufts of more familiar woodland owls. Bright yellow eyes, sometimes with black mottling, and a white chin accent the face. Unusually long legs provide additional height for a better view from a typical ground-level perch.

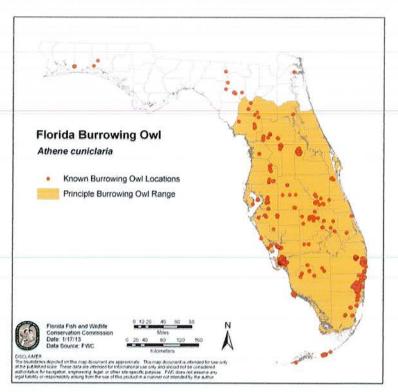


Figure 1. Range of the Florida burrowing owl.

Habitat

Burrowing owls inhabit open-type habitats that offer short groundcover. Historically, these habitat requirements were met by native dry prairies that covered much of central Florida; however, due to human development in natural areas there has been a range expansion into north and south Florida. More recently, burrowing owls have turned to pastures, agricultural fields, golf courses, airports, schools, and vacant lots in residential areas as most native open habitats have been converted by humans to these new uses.

Behavior

Burrowing owls live as single breeding pairs or in loose colonies consisting of 2 or more families. Unlike most owls, burrowing owls are active during both day and night. During the day, they are usually seen standing erect at the mouth of their burrow or on a nearby post. When disturbed, the owl bobs in agitation and utters a chattering or clucking call. In flight, burrowing owls typically undulate as if they are flying an invisible obstacle course. They also can hover in midair, a technique effective for capturing food.

Burrowing owls mainly eat insects, especially grasshoppers and beetles. They can be of special benefit in urban settings because they also consume roaches and crickets. Small lizards, frogs, snakes, birds, and rodents are also important prey.

Florida burrowing owls typically dig their own burrows but will use gopher tortoise (*Gopherus polyphemus*) or armadillo (*Dasypus novemcinctus*) burrows and other structures such as manholes, sewer drains, and concrete pipes. Owl family units will often use a breeding burrow and one or more satellite burrows. Juvenile owls rely on both primary and satellite burrows 30 to 60 days after they are flight capable (Mealy 1997). Burrows are typically 2 to 3 m (6 to 9 ft) in length, up to 1 m (3 ft) deep, and are lined with materials such as grass clippings, feathers, paper, and manure. Use of burrows may vary between owls that reside in urban areas and those that reside in rural environments (e.g., pastures). Burrowing owls in urban areas are known to use burrows year-round, for roosting during the winter and for raising young during the breeding season (Millsap 1996). However, year-round use of burrows by owls in rural environments has not been as well documented. In fact, some research suggests that burrowing owls may have limited use of burrows outside of the breeding season. Mrykalo (2007) reported decreased burrow use in pastures that are frequently flooded during the summer rainy season. Whether or not these owls use alternate burrows during this time is unknown. Burrowing owls may also roost in structures (Zambrano 1998) or trees.



Figure 2. An adult burrowing owl feeding young. Photograph by Ron Bielefeld, FWC.

The typical nesting season is from February (courtship begins) to July (brood-rearing), with eggs primarily laid in March, but nesting can also occur from October through May. The female lays 6 to 8 eggs over a 1-week period. She will incubate the eggs for 21 to 28 days. At hatching, white, downy feathers cover the young owls and their eyes are closed. They emerge from the burrow when they are 2 weeks old. At 4 weeks, they are learning to fly but cannot fly well until they are 6 weeks old. They remain with their parents until they are 12 weeks old.

Population Status

The current population status of the Florida burrowing owl is unknown. There are a number of indications of fluctuation and possible decline, including local establishment and subsequent extirpation of small colonies of burrowing owls. Since the 1800s, the number of burrowing owls using native habitats appears to have decreased in response to loss of this habitat (Courser 1979). In contrast, numbers of burrowing owls in south Florida coastal habitats have apparently increased, due mainly to habitat modification during the development of coastal urban centers such as Cape Coral and Marco Island (dredge and fill projects). Other development activities that

have attracted burrowing owls to inhabit urban areas include clearing of forests and draining of wetlands. This has facilitated the recruitment of owls from interior portions of Florida's peninsula. These urban birds have adapted to human activity and now occupy these areas,

sometimes in high densities. These easily accessible areas have facilitated research efforts resulting in the subsequent development of nest-protection guidelines for urban areas. While this information has been extremely important for owl conservation in urban environments, the long-term viability of these populations is uncertain because of the persistent threats (e.g., automobile collisions) of living in close proximity to people. Conversely, obtaining population information on burrowing owls in rural areas remains a challenge because owl populations are dispersed over vast, undeveloped areas and there is very limited access to private lands.



Figure 3. A young burrowing owl exercising its wings. Photograph by Ron Bielefeld, FWC.

Conservation History

Following the extirpation of burrowing owls in several communities in Florida, the species was listed as a Species of Special Concern by the Florida Game and Fresh Water Fish Commission in

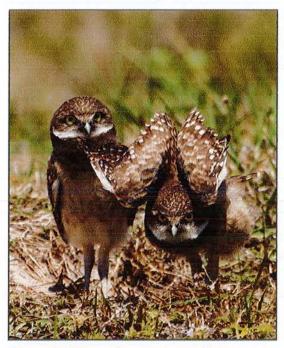


Figure 4. Young burrowing owls. Photograph by Ron Bielefeld, FWC.

1979 (Florida Department of State 1979; also see Millsap 1996). The owls and their nests are protected under Rule 68A-27.005, Florida Administrative Code (F.A.C.), and under the Migratory Bird Treaty Act (16 U.S.C. 703-712). A permit is required to remove a burrowing owl burrow as outlined in <u>FWC</u> <u>Burrowing Owl Protection Guidelines</u> for urban areas.

Much of what is known about the Florida burrowing owl is based on research conducted in urban areas, namely Cape Coral. FWC conducted two 5-year studies (1987 to 1991 and 2002 to 2007) in Cape Coral to investigate the effects of development on burrowing owl density and reproductive success over time. Results from the previous studies, when available, will be helpful in determining whether existing protections are sufficient for conserving the species in urban areas. The city of Cape Coral also has an active education program intended to reduce harassment of owls by school-aged children. Bowen (2001) conducted a statewide survey that included both rural and urban habitats in 62 counties. Bowen recorded 1,757 adult owls, although it was difficult to survey owls in rural areas due to low densities and limited property access. More recently, there have been several local monitoring efforts in urban and rural areas (U.S. Fish and Wildlife Service 2003). A current statewide survey is needed to obtain estimates on population size and trends for the Florida burrowing owl.

Threats and Recommended Listing Status

The major threats to the Florida burrowing owl are reliance on human-altered habitats and loss of native habitat (Owre 1978, Millsap 1996). Habitat is created by clearing of vegetation and draining of wetlands in preparation for development, but this habitat is temporary as it is lost when construction begins. In urban and suburban areas, preferred nesting habitat and burrows are destroyed by construction activities, domestic animals (e.g., dogs), and humans. Collisions with automobiles also are a frequent cause of owl mortality in these areas (Millsap and Bear 2000), while burrow abandonment can be caused by harassment by people. It also is likely that domestic (e.g. cats, dogs) and exotic wildlife (tegus [*Tupinambis merianae*], monitor lizards [*Varanus niloticus*], etc.) contribute to owl mortality but the full impact on owl populations needs further investigation. No known data exist on the effects of contaminants (e.g., pesticides and herbicides) on survival and reproduction of owls using urban or rural habitats, but given the propensity for the use of such chemicals in both the urban and rural landscape, research assessing this potential threat is warranted.

For burrowing owls in rural areas, lack of protected habitat is a concern. Most human-altered habitats, including those in rural areas (e.g., improved pasture), have not previously been made a priority for conservation (Mueller et al. 2007), but often are preferred by burrowing owls. Mrykalo et al. (2007) noted the lack of management strategies for burrowing owls in rural areas. Additional monitoring of burrowing owls in rural settings is necessary to determine how important these areas are to the conservation of the species. Also, it is unknown how many burrowing owls are being impacted by land-use changes in rural areas. Management strategies are needed to address conservation needs of both urban and rural burrowing owls.

In 2010, the FWC directed staff to evaluate the status of all species listed as Threatened or Species of Special Concern that had not undergone a status review in the past decade. To address this charge, staff conducted a literature review and solicited information from the public on the status of the Florida burrowing owl. The FWC convened a Biological Review Group (BRG) of experts on the Florida burrowing owl to assess the biological status of the species using criteria specified in Rule 68A-27.001, F.A.C. This rule includes a requirement for BRGs to follow the Guidelines for Application of the International Union for Conservation of Nature (IUCN) Red List Criteria at Regional Levels (Version 3.0) and Guidelines for Using the IUCN Red List Categories and Criteria (Version 8.1). The BRG developed a draft Biological Status Report (BSR) that included their findings and a preliminary listing recommendation from staff. FWC distributed the draft for peer review, and the reviewers' input was incorporated into the final report (the Florida Burrowing Owl BSR).

The BRG found the Florida burrowing owl met the following criteria for listing as Threatened:

• Criterion C, Population Size and Trend, which includes a population size estimate of fewer than 10,000 mature individuals, a continuing projected decline in numbers of mature individuals, and all mature individuals are in 1 subpopulation. There are clearly fewer than 10,000 individuals, with estimations as low as 1,700. Further compounding the low population size and projected decline is the lack of knowledge about genetic exchange between individuals in different areas of the state (i.e., is the burrowing owl in 1 population or many subpopulations?).

Based on the literature review, information received from the public, the BRG findings, and peer-review input, FWC staff recommended the Florida burrowing owl be listed as Threatened on the Florida Endangered and Threatened Species List.

CONSERVATION GOALS AND OBJECTIVES

Goal

Conservation status of the Florida burrowing owl is improved to a point that the species can be removed from the Florida Endangered and Threatened Species list and will not again need to be listed.

Objectives

I. Maintain a stable or increasing population trend for the Florida burrowing owl within 10 years.

Rationale

This objective addresses criterion C(1) and C(2), in the BSR. By meeting this objective within 10 years we will have reversed the projected decline in the burrowing owl population criterion C(2). The decline must be less than 10% to avoid triggering criterion C(1) of the listing process. Thus, immediate needs are to obtain estimates of population size and trajectory. Conducting surveys to obtain this information is necessary to measure progress in meeting this objective.

II. Determine if Florida burrowing owls exist as 1 or more populations and assess and monitor the status of the existing population(s).

Rationale

Determination of the number of populations of the Florida burrowing owl will allow for more accurate evaluation of conservation status, and therefore, listing status. This addresses criterion C(2), in the <u>BSR</u>. The BSR states that the Florida burrowing owl met criterion C(2[ii]), that the species is a single subpopulation, by making an assumption that the dispersed distribution of the burrowing owl in Florida and known mobility of individuals may indicate sufficient genetic exchange of individuals throughout the state. However, there is no direct genetic or demographic data to support whether the burrowing owl exists as 1 or many populations. Thus, research is needed to determine the population structure of the Florida burrowing owl.

III. Protect and manage burrowing owl habitat to ensure long-term population viability.

Rationale

Human-altered habitats are now the primary habitats utilized by burrowing owls. With effective management, urban areas such as Cape Coral could continue to provide suitable places for burrowing owls to maintain long-term populations. Altered rural habitats, especially cattle ranches, have great potential for compatible land-use practices that benefit landowners and burrowing owls alike. However, partnerships between FWC and private landowners will need to be expanded to ensure effective land-use practices are established and maintained. Moreover, opportunities exist to expand public land holdings and conservation easements to increase protected habitat for burrowing owls.

IV. Minimize impacts of development and other land-use conversion on burrowing owls.

Rationale

Conversion from native habitats and other owl-compatible land uses to intensive development and other owl-incompatible uses remains a threat to burrowing owls. Conservation guidelines can improve protection for burrowing owls in areas where they may be impacted and provide mitigation options for incidental take of owls and their burrows.

V. Expand awareness and shared responsibility among stakeholders and partners to manage and protect burrowing owls and their habitat.

Rationale

Partnerships with local, state, and federal agencies; private landowners; and non-governmental organizations are essential to conserving this species. Given the propensity of owls to live either in urban areas in close proximity to people or on rural, mostly private lands, the future of burrowing owl conservation in Florida is largely dependent on how much people value this species.

CONSERVATION ACTIONS

The following sections describe the conservation actions that will make the greatest contribution toward achieving the conservation objectives. Actions are grouped by category (e.g., Habitat Conservation and Management, Population Management). The Conservation Action Table (Table 1) provides information on action priority, urgency, potential funding sources, likely effectiveness, identified partners, and leads for implementation.

Habitat Conservation and Management

One of the challenges to recovering Florida's burrowing owl population will be to develop strategies that effectively address the unique management needs of burrowing owls on public and private lands in both urban and rural areas. Most of what is known about burrowing owls in Florida is the result of research efforts conducted in urban areas. However, additional research is needed to better understand the specific habitat needs of this species on public and private land in rural areas. To address some of these rural landscape concerns, Mueller et al. (2011) identified 5 land-cover classes preferred by burrowing owls: 1) improved pasture, 2) row and/or field crop (to include hay and/or grass), 3) bare soil and/or clear-cut, 4) grassland, and 5) dry prairie. Mueller et al. (2011) also found that although these preferred land-use classes made up 26% of the land areas in their 38-county study area, only 8.3% of these land-use classes were found on managed public lands. Due to the lack of preferred habitat on public lands, burrowing owl population data in these areas also are scarce. This underscores the important role that private lands will play in the conservation of burrowing owls in Florida and further emphasizes the need for state and local governments to work with private landowners to garner support for burrowing owl conservation efforts (see Education and Outreach and Incentives and Influencing). Research conducted on burrowing owls in Florida by Bowen (2000) and Mueller et al. (2007) have further identified access to private lands as a major obstacle in obtaining critical population and habitat information.

The research above, as well as that offered by Mrykalo et al. (2007), have been some of the first attempts to address owl habitat use in rural, Florida landscapes. There is still much more to learn about other habitat parameters preferred by burrowing owls in Florida. Optimal vegetation height for nesting and foraging, nest-site selection, tolerance for various grazing intensities, and habitat use during and outside of breeding season are just some of the measurable habitat characteristics that require further investigation. Such information is critical in defining specific habitat needs and developing conservation strategies (see the Monitoring and Research section for further discussion).

The actions outlined in this section are designed to improve the quality and quantity of habitat for burrowing owls on public and private lands.

Action 1 Develop and implement conservation guidelines for public and private landowners and land managers that will promote burrowing owl population growth.

One approach to promote the long-term viability of burrowing owl populations is to create conservation guidelines that will encourage public and private landowners and managers to create, enhance, restore, and maintain suitable burrowing owl habitat. Conservation guidelines will be voluntary, non-regulatory guidelines and will provide the greatest degree of protection for burrowing owls and their burrows and promote the implementation of beneficial land management practices. Private landowners and managers can employ conservation guidelines independently or they can receive technical assistance on how to implement conservation guidelines by contacting the FWC. FWC's Landowner Assistance Program (LAP) biologists regularly interact with private landowners and managers to provide habitat management advice. The LAP biologists also provide landowners with information on financial incentives for managing wildlife.

The following are examples of conservation guidelines that are likely to improve the conservation status of burrowing owls in urban and rural settings.

In urban areas:

- Avoid the use of pesticides, insecticides, and/or herbicides near burrowing owl burrows, especially during the nesting season.
- Post signs to provide protection from harassment, but only when necessary.
- Provide starter burrows. Burrowing owls can be attracted to excavate a burrow in a given area where a starter burrow exists. Create a starter burrow by removing a circular plug of soil or sod (0.3 m [1 ft] in diameter) and piling loose soil near the hole (Millsap 1996). Simply disturbing a patch of suitable habitat by mechanically clearing vegetation may attract burrowing owls if they are in the vicinity.
- Provide perches near burrows. Perches provide hunting and observation sites for burrowing owls. Wooden fence posts or other perches placed in immediate vicinity of burrows will provide a suitable perch.
- To reduce the risk of nest abandonment, minimize activity near burrowing owl burrows during the nesting season. Activities that can induce abandonment include disturbance by humans, pets, machinery, etc. The exception would be to allow short-duration disturbance when mowing near owl burrows to maintain suitable vegetation height. Avoid mowing over burrow entrances and use a weed trimmer to maintain vegetation immediately around burrow entrance.

In rural areas:

- Avoid the use of pesticides, insecticides, and/or herbicides near burrowing owl burrows, especially during the nesting season.
- Maintain vegetation height that is beneficial for burrowing owls through mowing, prescribed grazing, and/or prescribed burning.
- Take care to avoid digging or using heavy equipment near burrow entrances during the breeding season so as not to collapse burrows and potentially trap owls or destroy eggs.
- If cattle are present, employ a selective cattle-grazing regime (i.e. prescribed grazing). Cattle grazing can effectively be used to reduce vegetation height to a level that is beneficial for burrowing owls. However, at high stocking rates, cattle may degrade or destroy habitat and burrows by trampling or wallowing in them. Consider other vegetation treatment options such as prescribed burning or mowing to maintain vegetation cattle do not graze.
- Avoid the conversion of pasture and dry prairie to more intensive land uses, such as row crops, silviculture, development, etc.

Conservation guidelines can also be incorporated into public land management. The FWC's Wildlife and Habitat Management section's Wildlife Conservation, Prioritization and Recovery program provides plans for species monitoring and management on lands in the Wildlife Management Area system. This approach uses information from statewide models, in conjunction with input from species experts and people knowledgeable about the area, to create site-specific wildlife assessments for a number of focal species, including the burrowing owl. Staff combines these assessments with management considerations to develop a wildlife management strategy for the area. As conservation guidelines are developed, they should be incorporated into the program to provide current information on the management needs of burrowing owls.

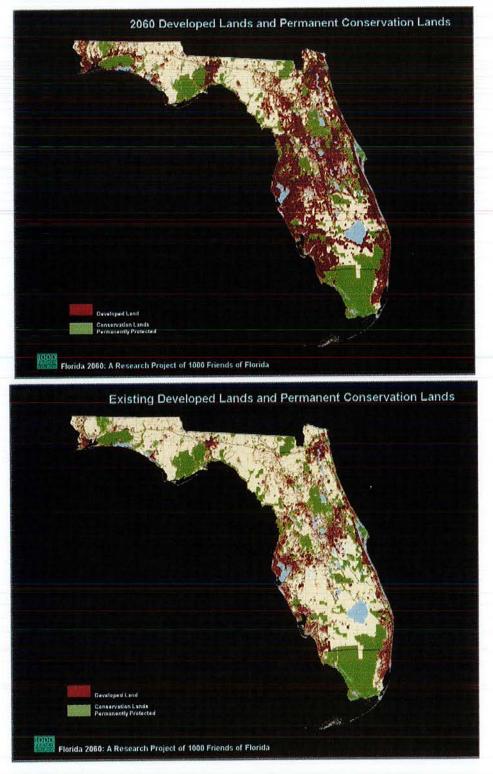
Action 2 Develop and implement conservation guidelines for land slated for development.

Create voluntary conservation guidelines (along with permitting guidelines) to benefit burrowing owls on land where development is planned. Use of these guidelines will encourage the preservation and enhancement of burrowing owl habitat in addition to avoiding take of burrowing owls as required by permitting guidelines. Implementation of conservation guidelines could lead to creation of new urban areas that include enough habitat to support burrowing owl populations in the long term.

The conservation of burrowing owls could be enhanced by outlining preferred timing of clearing and construction, methods of clearing and re-vegetating, preferred locations and design of stormwater management features, preservation of onsite ecosystem features, preferred location and size of open space, green space or conservation areas, and inclusion of development or density buffers. Incentives for incorporating these guidelines into development proposals could include reduced mitigation associated with permitting, local or state recognition, tax incentives, or density bonuses. Close coordination with developers early in the planning phase could facilitate the successful completion of this action.

Action 3 Anticipate human-induced, landscape-scale changes that threaten burrowing owls and adapt management efforts accordingly (e.g., threats from development, land-use changes, and climate change).

Continued developmental pressure from Florida's population growth is a known threat to burrowing owls. There is a projected decline ($\geq 10\%$) based on the numerous threats to the burrowing owl and any decline is likely to continue given projected increases in development (Figure 5). Another potential threat is the rehydration of previously drained rural lands that have enrolled in hydrological restoration programs, such as the U.S. Department of Agriculture Natural Resources Conservation Service's Wetland Reserve Program. Many of south-central Florida's working ranches have been drained to facilitate various agricultural activities. This may have artificially lowered the water tables and created soil conditions that were conducive to burrow excavation by owls. Many burrowing owls currently occupy central Florida rangelands and if hydrology is restored, subsequent soil moisture increase could render much of this land unsuitable to burrowing owls by flooding existing burrows, reducing acreage of suitable burrow sites, and ultimately reducing reproductive success. This is a management conflict with other species that would benefit from rehydration. Where areas are critical to burrowing owl



conservation (e.g., large numbers of owls or key areas for connectivity), then alternatives to rehydration should be considered.

Figure 5. Maps depicting the change in developed and conservation lands based on the Florida 2060 report by <u>1000 Friends of Florida</u>.

Climate change is also expected to contribute to a cascade of landscape-level impacts that may affect the burrowing owl, with the most direct impact being habitat loss due to sea level rise. Monitoring these impacts into the future will be necessary to adapt management efforts accordingly. In addition, FWC is working to develop a common set of tools and approaches for climate change adaptation planning that can be used across the agency's management programs. As needed, climate change adaptation strategies will be incorporated into future revisions of this plan.

Population Management

No specific population management actions have been identified at this time, largely because the parameters that limit burrowing owl populations (e.g., adult and juvenile survival and reproductive rates) are currently unknown. The <u>Monitoring and Research</u> section outlines actions that, upon implementation, will enhance our understanding of factors affecting the burrowing owl and allow managers to recommend effective population management actions. However, using existing information on habitat preferences and conservation needs of burrowing owls will be essential to conserving the species while new research is conducted. Recommended conservation guidelines land managers can initiate now are summarized in <u>Action 1</u>.

Monitoring and Research

A better understanding of owl movement patterns is critical to establish whether Florida supports a single population of burrowing owls that is mixing or subpopulations that have little or no exchange of individuals among them. This information could influence the listing status of the species. In addition, a better understanding of the habitats (macro- and micro-) used in areas of the state where burrowing owls exist in relatively large numbers is needed in order to effectively target habitat conservation and management efforts. Lastly, precise estimates of survival rates for adults and young, as well as reproductive rates are needed to facilitate the development of sound population management actions during future revisions of this plan.

Recommendation to list the Florida burrowing owl as Threatened was based also on a perceived decreasing population trend. Again, there was a paucity of data on which this listing criterion was met. Thus, it is critical to determine the current status of the population(s) and be able to track status over time. To do so, a survey methodology needs to be developed and implemented that will provide a precise estimate of owl density for each known concentration of burrowing owls. Density estimates could be used as an index to population status and to determine trends.

A key aspect in the development of the aforementioned research is the inclusion of both urban and rural components. Florida burrowing owls exist in both urban and rural areas. Research on other non-migratory species (e.g., mottled ducks [*Anas fulvigula*]), has shown that the basic ecology of a species can differ greatly between individuals using urban versus rural habitats even if humans have extensively altered both areas (Varner et al. 2013). Thus, any research that is proposed must represent owls from both types of areas if the results are to be applied to the Florida burrowing population as a whole.

Action 4 Determine gross movement patterns of Florida burrowing owls that use urban and rural areas to assess if birds from different areas are intermixing and if any differences in movement patterns exist between rural and urban groups.

Action 5 Assess the genetic make-up of Florida burrowing owls in different areas of the state.

Another way to gain information on the demographics of burrowing owls in Florida is through genetic testing to determine the level of genetic homology of individuals in different areas of the state. Use of restriction-site associated deoxyribonucleic acid (DNA) markers can determine if there are any genetic differences among burrowing owls from different areas.

Data obtained from such a study would provide additional information regarding whether there are 1 or more subpopulations of burrowing owls within the state. Moreover, it will provide information on any genetic differentiation that may be taking place among existing populations. This information will help create management strategies: should the burrowing owl be managed as 1 population or several subpopulations?

Action 6 Determine macro-habitat characteristics used by Florida burrowing owls during the breeding season.

Through the use of historic and current burrowing owl locations in conjunction with available Geographic Information System (GIS) landscape coverage data, we can identify macro-habitat characteristics (Mueller et al. 2011) being used by burrowing owls and assess the distribution of these habitats in Florida. Knowing which habitat types burrowing owls use and the distribution is essential to conserving existing preferred habitats, as well as improving marginal habitats through targeted habitat-enhancement efforts.

Action 7 Determine mean annual survival rates of adult and young Florida burrowing owls in both urban and rural areas and determine if they differ.

Passive Integrated Transponder (PIT) tag technology has evolved to the point where it can be employed on a much wider basis for animal study at a relatively low cost. PIT tags would be implanted in a representative sample of adult and young owls and PIT tag readers installed over burrow entrances to capture data. Use of this technology should improve the efficiency and accuracy of data collection when compared to other means of marking and monitoring individuals (e.g., leg banding). Conducting a capture–recapture type study using PIT tags to estimate survival rates of adult and juvenile owls would provide data on a key vital rate needed to formulate sound population management decisions.

Action 8 Assess prevalence and levels of contaminant loads carried by burrowing owls and investigate if levels detected could be detrimental to survival and reproduction of owls using urban and rural areas.

Feather samples collected from birds in both rural and urban areas should be analyzed for the presence and levels of various chemicals associated with commonly used herbicides and pesticides to determine if mean levels carried by individuals could be negatively affecting survival and reproductive rates.

Action 9 Determine mean annual reproductive success of Florida burrowing owls using urban and rural areas and determine if they differ.

Use burrow observations to estimate reproductive success. An estimate of reproductive rate is a critical component of constructing a population model for this species. In turn, a population model is needed to help determine which population vital rates (e.g., survival) may be limiting this population's growth.

Action 10 Conduct a statewide survey until sound data are available to establish a population trajectory. The survey should continue for additional years as deemed necessary to monitor population status.

This survey effort will provide the data necessary to determine the current trajectory of the burrowing owl population, and provide data for future biological assessments. This information may influence future conservation actions and listing status. The survey should continue until enough precise population estimates are available to calculate a trend and continue as long as population monitoring is deemed necessary.

The first step in developing an operational population survey for burrowing owls is delineating a preliminary survey area. This area will be established based on known and probable owl locations gleaned from data acquired from $\underline{\text{Action } 6}$.

The second step in developing an operational population survey for burrowing owls is to conduct an exploratory survey that will assess the logistics (e.g., where best to use transect versus points and number of survey crews needed to complete the survey in a designated time) of the survey design and allow refinement of the survey area based on observations. The survey area should be adjusted as needed as new data on burrowing owl distribution are obtained.

Once the survey area and logistics are refined from preliminary survey efforts, the final design for the operational statewide survey will be completed using a combination of line-transect and point-transect methods and distance sampling techniques.

Use of line- and point-transect methods will allow both rural and urban areas to be surveyed efficiently as line transects can be hard to employ in urban areas. Use of distance sampling techniques will allow for modeling of detection probabilities, a crucial element to obtaining unbiased density estimates. Electronic calls can be used by observers to maximize burrowing owl detections, as meeting a minimum number of detections (e.g., 50) is crucial to being able to calculate a precise density estimate. Active burrows will be the sampling unit with 1 burrow representing 2 adult burrowing owls (satellite burrows will be excluded from this estimate). Burrowing owl distribution maps of surveyed areas should be produced based on survey results.

Action 11 Develop a website to collect incidental observations of Florida burrowing owls from the public.

Website information will be used to increase knowledge of the distribution of burrowing owls in Florida. This type of information will be helpful in further refining the area surveyed during annual population monitoring, as well as bolstering our understanding of habitat use patterns for this species. It may also identify partners willing to work with FWC to conserve burrowing owls.

This effort differs from that proposed in <u>Action 12</u> in that it will provide the public with the ability to provide burrowing owl sightings along with pertinent ancillary data directly to state wildlife managers. Moreover, this effort has the potential to provide a long-term dataset, whereas <u>Action 12</u> will provide only 2 to 3 years of distribution data.

Action 12 Continue coordination with the Breeding Bird Atlas II (BBA2) to collect observations of Florida burrowing owls.

The BBA2 project, coordinated by the Florida Ornithological Society, will generate distribution information at the statewide level beginning in 2012. In addition to occurrence data collected and recorded at the scale of the United States Geological Survey 7.5-minute quad maps (x mile²), the BBA2 Technical Committee also will collect detailed distribution records for specific focal species. An interactive website for entering locations of breeding Florida burrowing owls will be developed cooperatively by the BBA2 and FWC.

Action 13 Develop a population-monitoring protocol to measure the success of local management efforts aimed at conserving the Florida burrowing owl.

This is a separate effort from the statewide population monitoring survey. The goal of this effort is to gain understanding of the effectiveness of local-scale management efforts on local burrowing owl numbers.

This effort will focus on working with private landowners who implement habitat and/or population management actions aimed at conservation of a local group of burrowing owls. The objective is to monitor recruitment and survival of local groups over time. Monitoring these population parameters will allow assessment of the effectiveness of specific habitat and population management techniques on burrowing owls. Ultimately, this will provide understanding, on a local scale, of the types of management that have the most positive effect on burrowing owls.

Rule and Permitting Intent

Protections

The actions in this section are intended to ensure burrowing owls, their eggs, young, and burrows are protected. These protections also are intended to provide some flexibility for wildlife managers, ranchers, farmers, and homeowners. This flexibility should allow for effective management of burrowing owls and their habitat on public and private lands.

Protections and permitting need to address the different challenges pertaining to burrowing owls in urban areas and rural areas. In urban areas such as Cape Coral, it is often clear where burrowing owls and their burrows are located (usually on single-family lots). Burrows and burrowing owls are visible from public roads. Local government staff and the public keep track of activities that may impact this species, and often report problems to the FWC. Usually only a small number of burrows and a small amount of burrowing owl "habitat" are impacted under any single permit issued through the FWC Burrowing Owl Protection Guidelines for urban areas. Locations of burrowing owls in rural areas are not well known. Large developments taking place in rural areas may impact large numbers of burrowing owls, their burrows, and their habitat. Surveys will be needed to estimate numbers of burrowing owls and burrows present in areas being developed to determine how to best avoid, minimize and or compensate for impacts. Other rural areas consisting of farm or ranch lands contain habitat critical to the species' long-term survival. Under some circumstances, only avoidance and minimization of impacts to burrowing owls may be possible. In other cases, if species needs are considered, activities such as cattle ranching could provide long-term, quality habitat for burrowing owls without negative impacts to landowner operations.

Burrowing owls also are protected under the Migratory Bird Treaty Act, 16 U.S.C. § 701-12 (MBTA). Under this Act it is unlawful to pursue, hunt, take, capture, kill, or sell migratory birds, including their feathers, eggs, and nests.

Action 14 Assess current agency policy and rules pertaining to the conservation of the Florida burrowing owl (Chapter 68A-27, F.A.C.) and suggest changes to provide the protections necessary to achieve the goal of this plan.

Current rules state that Florida burrowing owl *nests* and *eggs* are protected. However, it is not sufficiently clear whether active burrows (young or eggs present) and inactive burrows (no young or eggs present) are all protected under this rule. Protections for burrows will need to be clarified either through guidelines, policy, or rule changes. Guidelines can also clarify what activities are exempt from some, or all, permitting requirements. These might include activities intended to improve habitat for burrowing owls or actions required to protect human safety or the environment.

Permitting Threshold

FWC rules, as discussed above, will address when an activity is prohibited and when a permit is required. Permitting teams and stakeholder groups formed subsequent to the approval of this plan should investigate the possibility of requiring permits and mitigation in cases where significant amounts of burrowing owl habitat are lost. Habitat loss can be as, or more, detrimental to the survival of a species as direct loss of individuals or their burrows (Owre 1978, Millsap 1996).

Permitting Guidelines

Action 15 Assess possible changes to permitting guidelines for burrowing owls.

Intentional take permits.—Permits issued for intentional take of burrowing owls, their eggs, or young include, but are not limited to, activities such as falconry, scientific collecting, research, and education. Permits to take burrowing owls for scientific or educational purposes should continue to be allowed. Permits will likely be reviewed on a case-by-case basis using criteria outlined in Rule 68A-27.007(2)(a), F.A.C.

Incidental take permits.—Permits issued for incidental take of burrowing owls, their eggs, young, or burrows are needed when planned, legal activities, such as development, occur in areas where listed species are present and will be impacted. Incidental take permits

currently are issued on a case-by-case basis. This plan proposes developing new permitting guidelines for incidental take that includes a standard process for addressing impacts.

Such permitting guidelines would include components necessary to ensure fair, effective, and efficient permitting statewide. The following sections are a recommendation and will be superseded by permitting guidelines approved by FWC subsequent to publication of this plan.

Recommended items to be addressed in permitting guidelines:

- How to determine when a permit is required: This section could provide information on burrowing owl burrow definitions and activity categories, rules (see <u>Protections</u>), and enforcement policies. Enforcement policies outline how FWC's Division of Law Enforcement interprets and enforces rules protecting burrowing owls. This section also could include information on how site preparation activities for development (including infrastructure such as roads and utilities) are handled in the permitting process. Without this information, it is often difficult for an applicant to determine when a permit is required.
- Burrowing owl survey protocol: This section could provide a standardized survey protocol for finding burrowing owls and their burrows that would be required prior to planned development activities.
- Permits and mitigation: This section could provide information on permitting options available and any measures necessary to offset take. Different permitting options could be considered, based on the number of burrowing owls directly or indirectly impacted by proposed projects. Avoidance and minimization should be considered in the permitting process. Mitigation banking, conservation easements, and creation of a mitigation fund for burrowing owls could be considered. Relocation of burrowing owls may also be considered as a potential component of the permit process, if such relocations are shown to be safe and effective. Construction of perches and starter burrows could also be considered as a low-cost component to offset take. Larger-scale permitting, similar to federal Habitat Conservation Planning permitting, could also be considered as a more efficient way to permit multiple properties simultaneously (if such permitting would achieve conservation objectives). Compensation for loss of burrowing owls and their habitat will be a crucial part of the permitting process and will provide conservation benefits for the species. Mitigation can be used to help achieve the objectives of this plan.
- Permit review and issuance process: This section could detail how permits are applied for, reviewed, denied, issued, and revoked. A clear review and issuance process is crucial to meet FWC deadlines for reviewing and issuing permits.
- Permitting guideline updates and modifications: This section could explain the process by which permitting guidelines are edited in the future to improve their efficiency and conservation value and respond to concerns expressed by FWC's stakeholders and the general public. A clear process for editing and approving new versions of the guidelines will help ensure problems are addressed and permitting guidelines are updated in a timely manner.

Once new permitting guidelines are developed, new database and website tools should be created to allow for an online permit application process. Database tools should also allow tracking of

the number of permits issued, the number of burrowing owls/burrows impacted, and information on mitigation actions or payments completed by the permittee.

Law Enforcement

The FWC's Division of Law Enforcement, in conjunction with federal, state, and local partners, is responsible for enforcing Florida's wildlife and fisheries laws. FWC's law enforcement officers are vital to the success of achieving the goals and objectives of this plan because they both ensure the enforcement of conservation laws and educate the public on how to identify and report violations.

Enforcement of rules protecting burrowing owls is essential for 2 main reasons. First, rules protect the species and its burrows directly from harm or destruction. Second, enforcement of rules is critical in ensuring an effective permitting and mitigation process for burrowing owls. Rules define the criteria under which developers and landowners are or are not required to enter the permitting process.

Action16 Develop and implement a training program for FWC law enforcement officers on the identification of and rules and regulations pertaining to the Florida burrowing owl.

FWC will provide adequate training to FWC law enforcement officers to ensure that they are able to identify Florida burrowing owls accurately, are aware of all applicable rules and regulations pertaining to this species, and are able to explain to the public the ecological importance of burrowing owls.

Incentives and Influencing

Incentives

Action 17 Develop new, and expand existing, incentive opportunities to promote habitat protection and management on private rural and urban lands.

FWC currently utilizes several programs that promote conservation by providing technical and financial assistance and conservation easements to private landowners. FWC partners with other state and federal agencies to administer the Forest Stewardship Program, Wildlife Habitat Incentives Program, Wetlands Reserve Program, Environmental Quality Incentives Program, Partners for Fish and Wildlife Program, and the Cooperative Conservation Blueprint. These programs are voluntary and some may provide financial incentives, depending on annual funding appropriation for wildlife conservation and/or habitat management on private lands. Florida also provides tax incentives, including property tax exemptions, for landowners that put a perpetual conservation easement on their land. This would allow any landowner interested in maintaining their current conservation or agricultural practices to receive a break from property taxes for excluding additional development on their property. Additional incentives may include exemption from permits for activities that enhance wildlife activities such as mowing, roller-chopping, and timber-stand thinning, as long as they are not a precursor to development.

Action 18 Explore new and innovative ways to bring private rural and urban lands into protected conservation land status (e.g., creation of state programs based on federal models, such as Safe Harbor).

Safe Harbor Agreements are contracts that outline a baseline level of listed species to which potential impacts would require a permit/mitigation. If the landowner implements land management activities that enhance the habitat resulting in additional usage by listed species, the agreement protects the landowner from additional land-use restrictions and provides FWC the opportunity to move individuals over the baseline level. The landowner cannot impact the base level amount of wildlife without a permit. This agreement is tied to land use, so the conservation and preservation benefit is lost if the landowner decides to change land uses, such as from agriculture to development.

Influencing

Action 19 Develop a strategy to inform local and state governments about new burrowing owl rules and guidelines and develop memoranda of understandings (Memorandum of Understanding's, interlocal agreements, etc.) as part of the Burrowing Owl Outreach Plan (See Education and Outreach).

Action 20 Coordinate with local and state governments to establish conservation priority areas for the management of urban and rural burrowing owl populations.

Many public conservation lands are required to have a management plan approved by the Acquisition and Restoration Council (ARC) (for state lands), or the managing agency's governing board. Specifically, s. 253.034(5), Florida Statutes (F.S.). says in part that all land management plans shall include an analysis of the property to determine if significant natural resources, including listed species, occur on the property. If significant natural resources occur, the plan shall contain management strategies to protect the resources. The Florida Forever Act (s. 259.105, F.S.) adds that all state lands that have imperiled species habitat shall include, as a consideration in the management plan, restoration, enhancement, management, and repopulation of such habitats. For lands identified by the lead management agency as having burrowing owl populations or the potential to support burrowing owl populations, the FWC should be consulted (as statutorily required), and the lead management agency is encouraged to include FWC as part of the management plan advisory group.

Florida's growth management law places significant responsibility for land and water use decisions on local governments. Achievement of Florida's species conservation plans will necessitate that local government land and water use plans and regulations recognize important state fish and wildlife resources, including habitat, and provide adequate provision for their conservation. FWC will collaborate with and provide information to local governments regarding species management (including Species Action Plans), permitting guidelines and assistance programs that are available to landowners and the general public.

Chapter 163.3177, F.S. requires that county comprehensive growth management plans include a conservation element. The conservation element must include the identification of areas within the county that are locations of important fish, wildlife, or habitat resources; including state-

listed species. This element must contain principles, guidelines, and standards for conservation that restrict activities known to adversely affect the survival of these species. FWC is identified as a state agency authorized to review county growth management plans and plan amendments to ensure important state fish, wildlife, and habitat resources are adequately considered. Further, land development regulations require conditions on land or water use that specify how uses will be administered in a manner consistent with the conservation element of the county growth management plan. FWC can assist counties in developing their conservation elements and subsequent land development regulations to ensure that these regulations better reflect the needs of burrowing owls as identified in this plan.

Education and Outreach

Action 21 Create a Burrowing Owl Outreach Plan to increase awareness of burrowing owl conservation needs and participation in management actions.

The intent of the outreach plan is to expand awareness and shared responsibility among stakeholders, partners, and FWC to better manage and protect burrowing owls and their habitat in Florida. Creation of a Burrowing Owl Outreach Plan would comprehensively look at outreach and education needs to conserve the species including the creation of measurable objectives and sequential steps for implementation.

The following steps will be integral to the Outreach Plan:

- Identify the target audiences.
 - This would include land acquisition organizations, land managers, farmers, ranchers, homeowners, builders, developers, environmental consulting firms, law enforcement personnel, local governments, and school-aged children.
- Create key messages for each of these audiences. Messages would include:
 - Listing status of the Florida burrowing owl.
 - Proper conservation and management of burrowing owl habitat in urban and rural areas.
 - Minimizing threats to burrowing owls through specific messaging to selected audiences.
 - Overview of FWC permitting structure and burrowing owl protections.

The Outreach Plan should include the following actions:

- Support development of a website for public-generated burrowing owl sightings (<u>Action</u> <u>11</u>).
- Create materials to communicate about management guidelines and habitat-monitoring protocols to land managers, farmers and ranchers, homeowners, builders and developers, and environmental consulting firms (Actions 1 through 3).
- Create materials to support farmers' and ranchers', homeowners', builders' and developers', environmental consulting firms', and local governments' understanding of burrowing owl rules and permitting guidelines (Action 15).
- Create and distribute a brochure designed for broad audiences and which contains information about the status of the burrowing owl and management needed for its recovery.

- Create and maintain a website designed for broad audiences (e.g., consider multiple generational and cultural interests) that contains information about the status of the burrowing owl and management needed for its recovery.
- Create materials to educate school-aged children in support of FWC's goal to create the next generation that cares.

Coordination with Other Entities

Many of the actions in this plan involve coordination with other agencies, non-governmental organizations, and local governments. Those actions are included in other sections where they are most relevant.

1	Category	New Effort?		Power	Implement	Source(s)	FWC Program(s)	partners		
					impientente		and/or Section(s)			
and implement conservation guidelines for public ate landowners and land managers that will burrowing owl population growth.	Habitat Conservation & Mgmt	NEW	YES	YES	\$0-25k	Existing	HSC	Agencies	HIGH	2
and implement conservation guidelines for land r development.	Habitat Conservation & Mgmt	NEW	YES	YES	\$0-25k	Existing	HSC	Agencies, Landowners, Local Government	нідн	
te human-induced, landscape-scale changes that burrowing owls and adapt management efforts gly (e.g., threats from development, land-use and climate change).	Habitat Conservation & Mgmt	NEW	YES	YES	TBD	Existing	FWRI & HSC	None	MEDIUM	
ne gross movement patterns of Florida burrowing t use urban and rural areas to assess if birds from : areas are intermixing and if any differences in ant patterns exist between rural and urban groups.	Monitoring & Research	NEW	YES	NO	TBD	Grant, Trust Fund	FWRI & HSC	University	нідн	
ne genetic make-up of Florida burrowing owls in ; areas of the state.	Monitoring & Research	NEW	YES	NO	TBD	Grant, Trust Fund	FWRI & HSC	University	HIGH	
ne macro-habitat characteristics used by Florida ng owls during the breeding season.	Monitoring & Research	NEW	YES	YES	\$0-25k	Existing	FWRI & HSC	University	HIGH	
ne mean annual survival rates of adult and young urrowing owls in both urban and rural areas and ne if they differ.	Monitoring & Research	NEW	YES	NO	TBD	Grant	FWRI & HSC	University	HIGH	
revalence and levels of contaminant loads carried wing owls and investigate if levels detected could mental to survival and reproduction of owls using id rural areas.	Monitoring & Research	NEW	YES	NO	TBD	Grant	FWRI & HSC	University	MEDIUM	
ne mean annual reproductive success of Florida ng owls using urban and rural areas and determine iffer.	Monitoring & Research	NEW	YES	NO	TBD	Grant	FWRI & HSC	University	нісн	
a statewide survey until sound data are available lish a population trajectory. The survey should of radditional years as deemed necessary to population status.	Monitoring & Research	NEW	YES	NO	TBD	Grant	FWRI & HSC	Ali	HIGH	
a website to collect incidental observations of surrowing owls from the public.	Monitoring & Research	NEW	YES	YES	\$0-25k	Existing	FWRI & HSC	University	MEDIUM	
2 coordination with the Breeding Bird Atlas II to bservations of Florida burrowing owls.	Monitoring & Research	ONGOING	NO	YES	\$0-25k	Existing	FWRI & HSC	All	MEDIUM	
a population monitoring protocol to measure the of local management efforts aimed at conserving da burrowing owl.	Monitoring & Research	NEW	YES	YES	\$0-25k	Existing	FWRI & HSC	Agencies, Landowners, Local Government	MEDIUM	
urrent agency policy and rules pertaining to the ation of the Florida burrowing owl (Chapter 68A-) and suggest changes to provide and enhance ons necessary to achieve the goal of this olan.	Protections & Permitting	NEW	YES	YES	\$0-25k	Existing	HSC	None	MEDIUM	

							and/or Section(s)			
and implement a training program for FWC law nent officers on the identification of and rules and ns pertaining to the Florida burrowing owl.	Law Enforcement	EXPANDED	YES	YES	\$0-25k	Existing	HSC & Law Enforcement	None	MEDIUM	
new, and expand existing, incentive opportunities one habitat protection and management on private urban lands.	Incentives & Influencing	EXPANDED	YES	YES	TBD	Existing, Unknown	HSC	Agencies, Landowners, Local Government	HIGH	
new and innovative ways to bring private rural and nds into protected conservation land status (e.g., of state programs based on federal models, such arbor).	Incentives & Influencing	NEW	YES	YES	TBD	Existing	HSC	Agencies, Landowners, Local Government	HIGH	
a strategy to inform local and state governments w burrowing owl rules and guidelines and develop nda of understandings (MOU's, interlocal nts, etc.) as part of the Burrowing Owl Outreach	Incentives & Influencing	NEW	YES	YES	\$0-25k	Existing	HSC	None	MEDIUM	
te with local and state governments to establish tion priority areas for the management of urban burrowing owl populations.	Incentives & Influencing	NEW	YES	YES	\$0-25k	Existing	HSC	Local Government	нібн	
Burrowing Owl Outreach Plan to increase ss of burrowing owl conservation needs and tion in management actions.	Education & Outreach	NEW	YES	YES	\$0-25k	Unknown	HSC	All	MEDIUM	

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onservation Commission

Institute, the research branch of the Florida Fish and Wildlife Conservation Commission rvation, a Division of the Florida Fish and Wildlife Conservation Commission inding

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- Zambrano, R. 1998. The first recording of burrowing owls nesting in a building. The Wilson Bulletin, 110(4):560-561.

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EXHIBIT PP

From:Christopher CoardTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Thursday, July 23, 2020 7:10:38 PM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the improved infrastructure and lakes will make our community more resilient to environmental changes.

Sincerely,

Christopher Coard

Christopher.coard@outlook.com, (954) 802-3522

5609 Mulberry Dr

EXHIBIT QQ

From:Oona DavisTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Thursday, July 23, 2020 7:15:11 PM

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Dear Mayor & Commissioners,

I moved to the Woodlands in 2015 because it literally took my breath away. The golf course enhanced the appeal and this truly is the hidden gem of Broward.

Unfortunately, I am concerned because the golf course is no longer being maintained and it appears the time has come for a revitalization of our community. I am truly concerned that the lack of care on the course will negatively affect the value of my property.

13th floor is giving us the opportunity to have a seat at the table where the decisions are being made for the future of our community.

The 13th Floor team continues to have dialog with us. They have reduced the number of homes that were originally planned, our existing sections will be enhanced and infrastructure improved. We are holding 13th Floor accountable to the plans/promises and will continue to support them as they help us to ensure our Woodlands community continues to thrive and be a desirable place to live.

Thank you for giving us a voice.

With kind regards,

oonadee@gmail.com,

EXHIBIT RR

From:Cecilia KleinrichertTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Friday, July 24, 2020 1:00:15 PM

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Dear Mayor & Commissioners,

The woodlands as I knew it in 2003 is gone. We need someone to rejuvenate this once beautiful neighborhood and I pray you will allow this company to do just that. I feel this is the right time to save this neighborhood before it deteriates any further. When the day comes that I want to sell I would hope it would be a great place and the propert worth something. As an ex Realtor I can only see our values go up with this project by 13th Floor. Please vote in favor of the project moving ahead. Thank you so much!

Sincerely, Cecilia Kleinrichert

Regards,

Mshouse13@att.net,

6203 Hazelwood Circle

EXHIBIT SS

From:Michael CoardTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Thursday, July 30, 2020 7:29:39 AM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Michael Coard

michaelsunserve@gmail.com, (954) 338-7221

5609 Mulberry Drive

EXHIBIT TT

From:marguerite sankarlallTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Wednesday, August 19, 2020 12:28:38 PM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

marguerite sankarlall

msflorida2010@live.com, (754) 235-2666

4801 holly dr

EXHIBIT UU

From:	Me. Karen Malkoff
To:	<u>Blake Boy, Barbara</u>
Subject:	Support for the Woodlands 2020 Vision Plan
Date:	Wednesday, August 19, 2020 1:07:32 PM

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Dear Mayor & Commissioners,

I thank you in advance for taking the time in your busy schedule to read this note.

We will again be involved in conversations regarding the sale of the Woodlands Golf Courses and the future development of single family homes.

• In your last meeting regarding the sale of Woodlands golf courses they were actively in business, this is no longer the case. Club Link has formally announced they have CLOSED the golf courses and will NEVER be re-opening them. The golf courses are now being minimally maintained. The sand traps and Tee boxes almost completely overgrown. They are cutting the grass and it appears that is all the maintenance being done. I have also heard all of the golf carts and equipment have been removed from the facility.

• Therefore the question is not IF the golf courses will close, at this time that is a moot point. The question still continues to be whether to allow 13th Floor to develop the property.

• We currently live in a community with 'residential and recreational' activities. This will change to 'residential and recreational' activities with an approximately 398 additional homes. The remaining acreage will be open spaces, ponds, walking and jogging recreational paths, and additional recreational activities to be developed.

• Club Link will sell, it is NOT IF, but WHEN. Now the sale will be sooner than later. We cannot prevent them from selling their property anymore than someone can prevent us from selling our property.

• 13th Floor is developing an approximate 1/3 of the land leaving 2/3 as open recreational space. Will another developer do the same? Or will they build to the highest allowable density standards?

• Environmental issues regarding the detriment of our native flora and fauna are not valid. Our native species most likely will hold strong and may flourish with more water supplies (ponds), and increased quantities of native flora added to the open spaces throughout the new development.

• Drainage/flooding issues will be addressed within the development as an increase in the number and size of retention ponds to hold and absorb water. The water will ultimately be absorbed into the earth-going into our water supply via the oolitic limestone and/or transferred into the County drainage canal system. I believe our canals feed into the canals running along

the Turnpike. The retention ponds will be appropriately developed and placed to address the water concerns thereby removing flooding issues.

• Infrastructure needs will be addressed and improved, if necessary. The new developed homes will have new infrastructure to meet current established standards. If necessary, the current infrastructure will be updated to today's higher standards as well. The increased capacity can be handled by the City of Tamarac and the County as they have already been addressed & approved.

• Traffic concerns are being addressed and will be managed with additional entrances and roadways within the development. Perhaps traffic flow can also be addressed with managed and coordinated traffic lights. The Turnpike is currently updating the traffic flow patterns at the Commercial Blvd exchange which are almost complete as of this date. The development of the Woodlands is not the only development adding additional traffic in the area. New construction of residential and commercial properties in the general area affect traffic as well.

• Property values will increase as the Woodlands becomes a gated community. The gates will eliminate traffic that is not related to residents or service personnel. This enhancement to the Woodlands will also decrease trespassing and crime related activities from occurring. The establishment of the gates and increased security they provide may remove the need for additional law enforcement paid patrols, which will then save the current residents a great deal of money. The reduced crime opportunities will also directly reduce the crime statistics in the City of Tamarac and the impact it has on local law-enforcement response calls in the Woodlands. The gated Woodlands community will increase the peace of mind of all of the current and new residents.

• The Woodlands Golf courses are unique - if they are not developed by 13th Floor perhaps these golf courses will become abandoned as the Jackie Gleason Inverrary courses have been for years. Not only will this be an eyesore but this will be a detriment to the City of Tamarac, not to mention the residents who will have to live within the abandoned and vacated land. This lack of maintenance is now showing as the golf courses are not being meticulously maintained since Club Link has closed the facility. Minimum maintenance standards are currently being done.

• If the Woodlands Golf courses are not developed by 13th Floor, then Who? What will they offer? What will their building density be? Will it be maximum capacity? Will it be high-rise and/ or town houses? 13th Floor has stated they will provide legal documents preventing the land from ever being developed beyond the stated & developed capacity. We cannot prevent Club Link from selling their property. Let's work together with the developer – 13th Floor — who has proven they are willing to listen and compromise.

• Many of the speakers and people who have contacted you are "NIMBY"... "Not in my backyard". These people are not necessarily looking for the good of the community as a whole. They are looking out for themselves. For their own selfish reasons. We need people to be responsible, to look forward and not walk around with blinders on and think ONLY of themselves.

• Please look at the whole picture regarding the Woodlands Golf Courses and Community. If 13th Floor and their proposal is not approved now, you WILL face these questions and this consideration again in the very near future. Possibly with a higher building density and for a

builder who is not willing to listen and compromise to what the residents have to say.

Thank you in advance for your time and consideration. I look forward to your intelligent & educated decision regarding this matter and pass the project as proposed by 13th Floor homes.

Regards,

noidea007@bellsouth.net, (954) 647-9744

4806 Banyan Ln

EXHIBIT VV

From:ravindra sankarlallTo:Blake Boy, BarbaraSubject:[SPAM] Support for the Woodlands 2020 Vision PlanDate:Thursday, August 20, 2020 7:56:54 AM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

ravindra sankarlall

ravisankarlall@hotmail.com, (754) 207-3571

4801 holly dr

EXHIBIT WW

From:	Patricia Fox
To:	<u>Blake Boy, Barbara</u>
Subject:	Support for the Woodlands 2020 Vision Plan
Date:	Thursday, August 20, 2020 7:57:19 AM

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Dear Mayor & Commissioners,

I have recently learned that Clublink has decided to permanently close the Woodlands Golf Course.

I am deeply concerned that the course will eventually fall into disrepair even though they have stated they will continue to maintain the course, it has already started to look somewhat shabby in some areas.

I respectfully request that if at all possible the Woodlands 2020 Vision Plan be accelerated. My husband and I are in support of the 13th Floor project and hope the commissioners move forward quickly on their decision due to the fact the the course now is permanently closed. Thank you

Regards Patti Fox

Regards,

pattifox1029@gmail.com, (561) 236-4510

5601 Mulberry Drive

EXHIBIT XX

From:	Bonnie Schultz
To:	<u>Blake Boy, Barbara</u>
Subject:	Support for the Woodlands 2020 Vision Plan
Date:	Thursday, August 20, 2020 7:57:26 AM

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Dear Mayor & Commissioners,

I am VERY MUCH IN FAVOR of 13th Floor Homes developing the Woodlands golf courses. They have a great plan and have been willing to work with the homeowners to make improvements where they could.

Some History:

In 2003, in order to stay afloat, Woodlands Country Club sold some of the land to a developer who constructed Woodland Villas. Later, a parcel of land was almost sold to Lennar Builders, but the developer stopped the sale due to the housing recession. This is the kind of development we do not want to see. 13th Floor Homes has a comprehensive plan that benefits the Woodlands and will increase our property values.

I was a member of Woodlands Country Club and then Clublink when the country club was sold to them. The Country Club was out of money when Clublink purchased it in 2011 and saved the golf courses for a few more years.

I supported the country club even though the majority of the homeowners in the Woodlands did not. Many of those who don't want it to be developed, seem to think they have a right to force Clublink to operate the golf course, even at a loss. The golf courses have been closed since March when it was mandated by the county due to COVID-19. They have now provided the City of Tamarac with a notice that they are closed indefinitely.

As a resident of the Woodlands since 1997 and a country club member for many years, I believe the 13th Floor plan for the development of the Woodlands golf courses will be the best thing for this aging golf course and our property values.

Regards,

bschultz927@gmail.com, (954) 734-3747

5800 S. Bayberry Lane

EXHIBIT YY

From:Cecilia KleinrichertTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Wednesday, September 2, 2020 11:01:44 AM

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Dear Mayor & Commissioners,

I support the Woodlands 2020 vision plan.

Regards, Cecilia Kleinrichert

Mshouse13@att.net, (954) 733-9639

6203 Hazelwood Circle

EXHIBIT ZZ

From:Wayne WiseTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Thursday, September 3, 2020 7:19:18 AM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Wayne Wise

ahs1wtw@gmail.com, (954) 579-2556

5208 Buttonwood Ct.

EXHIBIT AAA

From:Alan WiseTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Thursday, September 3, 2020 7:19:22 AM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Alan Wise

ahs1wtw@gmail.com, (954) 484-6041

5208 Buttonwood Ct.

EXHIBIT BBB

From:Joanne HenryTo:Blake Boy, BarbaraSubject:[SPAM] Support for the Woodlands 2020 Vision PlanDate:Thursday, September 3, 2020 7:19:25 AM

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Dear Mayor & Commissioners,

Because the golf course is closed and I don't think it'll reopen and it's already looking trashy Regards,

Maddieanne2034@gmail.com, (440) 225-4248

5105 Banyan Lane

EXHIBIT CCC

From:	Cecilia Kleinrichert
To:	<u>Blake Boy, Barbara</u>
Subject:	Support for the Woodlands 2020 Vision Plan
Date:	Thursday, September 3, 2020 11:22:50 AM

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Dear Mayor & Commissioners,

I support the Woodlands 2020 vision plan. I have lived in the Woodlands since 2003 and have seen it go right down hill. I live on the golf course and would like to see this neighborhood spruced up. So many people who are against this are spreading false info and that can be a problem. I would assume that what has been agreed on between the city and county would have to be followed. Please let this project move forward so we can have a better neighborhood. Thank you so much! Cecilia Kleinrichert

Regards,

mshouse13@att.net, (954) 733-9639

6203 Hazelwood

EXHIBIT DDD

From:	Michael Farago
To:	<u>Blake Boy, Barbara</u>
Subject:	Support for the Woodlands 2020 Vision Plan
Date:	Thursday, September 10, 2020 7:33:28 AM

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Dear Mayor & Commissioners,

I support the main premise of the Woodlands 2020 vision plan to help beautify and restore the prestige of the community in the face of the shift in ownership happening at clublink.

My family has been in the community for over 35 years and my grandfather Seymour was very influential in the community and instrumental towards its success for many years over. Furthermore, he was the President of Pine Hollow Country Club, the New York based Country Club and golf organization that had association with many Woodlands members and families over the years.

I am now living here in the same property in Section 5 on Yellow Pine Lane and it saddens me to see the state of affairs of the clubhouse and the courses due the closures that have been happening. This is a prestigious and important community with tremendous value in the heart of Tamarac that has been important to its success over the years. I have watched it grow and change over the decades and participated in its activities, learning to play golf here on the courses, swimming in the pools, and celebrating holidays at the clubhouse.

I firsthand know the value and prestige that it offers and it needs to be maintained for the generations to come and for Tamarac, Florida. Furthermore, I am a business owner as well as an avid golfer that scores in the mid to high seventies. To allow the club to fall into disrepair and neglect how important it is to the prestige and happiness of the members here is not going to be the best strategy and is an oversight on how important it truly is to the community.

Please let's continue the discussion further, and I cannot stress enough - as a community member that has been in section five all of this time and grown with the Woodlands over the years - the golf needs to continue to be maintained and should be integrated with the new Woodlands 2020 vision. There are definitely strategies that can be implemented to attract new and interested golfers and families to the facilities and with investment in the right areas and by capitalizing on marketing opportunities I am sure that it will remain an asset in the Woodlands portfolio in the near future. Please attend to the courses and the necessary maintenance and upkeep in the meantime, it beautifies our homes and upholds the value of this being a private upscale community.

Best regards,

Mr. Farago

westerndragonllc@gmail.com, (646) 342-2069

5105 Yellow Pine Lane

EXHIBIT EEE

From:Carlton AnglinTo:Blake Boy, BarbaraSubject:Support for the Woodlands 2020 Vision PlanDate:Thursday, September 10, 2020 7:33:26 AM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Carlton Anglin

callanglin@gmail.com, (954) 593-3934

5300 Woodlands Blvd

EXHIBIT FFF

From:	Cecilia Kleinrichert
To:	<u>Blake Boy, Barbara</u>
Subject:	Support for the Woodlands 2020 Vision Plan
Date:	Saturday, September 12, 2020 10:17:16 AM

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Dear Mayor and Commissioners,

I support the Woodlands 2020 Vision Plan because the new, gated entrances will enhance the community's curb appeal and help with security.

Sincerely,

Cecilia Kleinrichert

Mshouse13@att.net, (954) 733-9639

6203 Hazelwood circle

EXHIBIT GGG

From:	Jeff Smoley
Subject:	Veterans on development in The Woodlands
Date:	Saturday, September 26, 2020 2:41:31 PM

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Dear Commissioner,

I write this letter as a concerned Veteran. I proudly and honorably served this country, by defending our way of life. Veterans work to build a life for us and our families. We deserve the ability to enjoy the fruits of our work.

Many Veterans purchased their retirement homes in The Woodlands, our largest monetary investment. The proposed development of the Woodlands will negatively impact it. The development will also affect our lives with years of construction, increased crime typical of construction sites, more traffic congestion that will delay first responders and issues with fresh water and sewage.

What the Woodlands' Veterans want and deserve is quality of life. Additionally, because many of us have a disability, the development will expose us, in our homes, to dangerous hazards.

We appreciate the recognition at Veterans' Park. If Tamarac and Broward county are truly committed, honor your Veterans by sparing us from a development that will destroy what we worked hard to have and will not let us enjoy the remainder of our lives. We sacrificed enough already to ensure that we all can enjoy freedom. We oppose the project.

--

Sincerely,

Jeffrey Smoley (US Army, 1968 - 1971)

"The pen is mightier than the sword" But without the sword, you don't get to use the pen. Jeff Smoley - 2011