

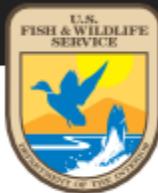


Use of IPaC and other cyber tools for an effective consultation

Ángel G. Colón Santiago
Pathway Student, Caribbean Ecological Services Field
Office
June 19 & July 20, 2018

Outline:

- Environmental Conservation Online System (ECOS)
- ECOS interface with the Threatened and Endangered System (TESS)
- Designated Critical Habitat for Threatened & Endangered Species
- IPaC as a tool for ESA consultations
- IPaC interface with the Tracking and Integrated Logging System (TAILS)
- Species list request
- National Wetlands Inventory



- What is ECOS?
 - Environmental Conservation Online System
 - Gateway web site.
 - Provide access to data systems in USFWS and other federal government data sources.
 - Assists USFWS personnel in managing data and information.
 - Provide public access to information from numerous Service databases.
 - Managed from HQ with super users at the Field Offices.



ECOS Environmental Conservation Online System

Conserving the Nature of America

[ECOS](#) / Home

Public Applications

[Conservation Plans](#)

[Wildlife & Environmental Contaminants Mapper](#)

[Information for Planning and Consultation \(IPaC\)](#)

[National Wild Fish Health Survey Database \(NWFHSDb\)](#)

[Species Reports](#)

[Web Services](#)

Secure Applications

[Secure Login](#)

Related Sites

[FWS Endangered Species Program](#)

[National Wildlife Refuge System](#)

Threatened & Endangered Species

ECOS serves a variety of reports related to FWS Threatened and Endangered Species. A selection of our most popular reports is listed below. See the [Species Reports](#) for the complete list.

- [All Threatened and Endangered Animals](#)
- [All Threatened and Endangered Plants](#)
- [Critical Habitat Report](#)
- [Delisted Species](#)
- [Listed Species Summary](#)
- [Reclassified Species](#)

OBTAINING AN OFFICIAL SPECIES LIST:

Use [IPaC](#) to identify your project location and receive an official species list (pursuant to 50 CFR 402.12) of T&E species that should be considered when evaluating the potential impacts of a project.

ADDITIONAL SEARCH TOOLS:

Search for a Listed species by name:

Search for a Listed species by County name:

Wildlife & Environmental Contaminants Mapper

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- [Use the Wildlife & Environmental Contaminants Mapper](#)



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Puerto Rican

- Puerto Rican Oriole (*Icterus dominicensis*)
- Puerto Rican Screech-Owl (*Megascops nudipes*)
- Puerto Rican Skink (*Spondylurus nitidus*)
- Puerto Rican Vireo (*Vireo latimeri*)
- Puerto Rican boa (*Epicrates inornatus*)
- Puerto Rican broad-winged hawk (*Buteo platypterus*)
- Puerto Rican crested toad (*Peltophryne lemur*)
- Puerto Rican nightjar (*Caprimulgus noctitherus*)
- Puerto Rican parrot (*Amazona vittata*)
- Puerto Rican plain Pigeon (*Columba inornata*)
- Puerto Rican pygmy anole (*Anolis occultus*)
- Puerto Rican sharp-chinned hawk (*Accipiter striatus*)

Search for a Listed species by County name:

Mapper

Mapper displays the locations of over 100,000 samples from the "Environmental Conservation Data Management System" (ECDMS). Click on sample collection points to view detailed information and download available results from laboratory tests.

Mapper



ECOS Environmental Conservation Online System

Conserving the Nature of America

[ECOS](#) / Species Profile for Puerto Rican parrot (*Amazona vittata*)

Puerto Rican parrot (*Amazona vittata*)

[Range Information](#) | [Federal Register](#) | [Recovery](#) | [Critical Habitat](#) | [Conservation Plans](#) | [Petitions](#) | [Life History](#)

Taxonomy: [View taxonomy in ITIS](#)

Listing Status: Endangered



Where Listed: **WHEREVER FOUND**

General Information

The Puerto Rican parrot is bright green, about a foot in length, with red forehead, blue primary wing feathers, and flesh-colored bill and feet. This bird feeds chiefly on wild fruits, particularly the sierra palm (*Prestoria montana*), but may also consume flowers and tender shoots. During October, when other fruits are scarce, the tabonuco fruit (*Dacryodes excelsa*) becomes an important food item. Rodriguez-Vidal (1959) lists over 50 different plants whose fruits are eaten by the parrots.

The species historical range included Puerto Rico. See below for information about where the species is known or believed to occur.

Current Listing Status Summary

Status	Date Listed	Lead Region	Where Listed
Endangered	03/11/1967	Southeast Region (Region 4)	Wherever found

Through ECOS you can get to the [Threatened and Endangered Species System \(TESS\)](#)

Current Listing Status Summary

Status	Date Listed	Lead Region	Where Listed
Endangered	03/11/1967	Southeast Region (Region 4)	Wherever found

» Range Information

Current Range

  Wherever found

Zoom in! Some species' locations may be small and hard to see from a wide perspective. To narrow-in on locations, check the state and county lists (below) and then use the zoom tool.

Want the FWS's current range for all species? Click [here](#) to download a zip file containing all individual shapefiles and metadata for all species.



- Wherever found

Listing status: **Endangered**

- **States/US Territories** in which this population is known to or is believed to occur: Puerto Rico
- **US Counties** in which this population is known to or is believed to occur: [View All](#)
- **Countries** in which this population is known to occur: Puerto Rico, United States

» Federal Register Documents

Federal Register Documents

Show 10 entries

Date	Citation Page	Title
03/25/2014	79 FR 16366 16368	Endangered and Threatened Wildlife and Plants; 5-Year Status Reviews of 33 Southeastern Species
06/17/2009	74 FR 28723 28724	Notice of Availability of the Puerto Rican Parrot Recovery Plan
06/17/2008	73 FR 34313 34314	Notice of Availability of a Draft Revised Recovery Plan for the Puerto Rican Parrot for Review and Comment
11/14/2006	71 FR 66341	Withdrawal of Notice of Availability of a Technical Agency Draft Recovery Plan for the Puerto Rican Parrot
10/03/2006	71 FR 58426 58427	Notice of Availability of a Technical Agency Draft Recovery Plan for the Puerto Rican Parrot for Review and Comment
09/12/2005	70 FR 53807 53808	5-Year Review of Eight Southeastern Species
03/11/1967	32 FR 4001	Endangered Species List - 1967

» Recovery

- [Recovery Plan Information Search](#)
- [Information Search FAQs](#)

Current Recovery Plan(s)

Show 10 entries

Date	Title	Plan Action Status	Plan Status
05/09/2009	Revised Final Recovery Plan for the Puerto Rican Parrot (<i>Amazona vittata</i>)	View Implementation Progress	Final Revision 1

Showing 1 to 1 of 1 entries

< Previous 1 Next >

ECOS and TESS as a source of information...

[ECOS](#) / Species Profile for Puerto Rican boa (*Epicrates inornatus*)

Puerto Rican boa (*Epicrates inornatus*)

[Range Information](#) | [Federal Register](#) | [Recovery](#) | [Critical Habitat](#) | [Conservation Plans](#) | [Petitions](#) | [Life History](#)

Taxonomy: [View taxonomy in ITIS](#)



Listing Status: **Endangered**



Where Listed: **WHEREVER FOUND**

[ECOS](#) / Species Profile for West Indian Manatee (*Trichechus manatus*)

West Indian Manatee (*Trichechus manatus*)

[Range Information](#) | [Federal Register](#) | [Recovery](#) | [Critical Habitat](#) | [Conservation Plans](#) | [Petitions](#) | [Life History](#)

Taxonomy: [View taxonomy in ITIS](#)



Listing Status: **Threatened**



Where Listed: **WHEREVER FOUND**

[ECOS](#) / Species Profile for Puerto Rico harlequin Butterfly (*Atlantea tulita*)

Puerto Rico harlequin butterfly (*Atlantea tulita*)

[Range Information](#) | [Candidate Info](#) | [Federal Register](#) | [Conservation Plans](#) | [Petitions](#) | [Life History](#)

Listing Status: **Candidate**





Designated Critical Habitat for Threatened & Endangered Species in ECOS



ECOS Environmental Conservation Online System

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U.S. FWS Threatened & Endangered Species Active Critical Habitat Report

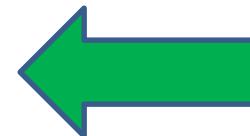
This page contains the spatial data for active proposed and final critical habitat for threatened and endangered species.

In addition to the individual, species Shapefile download links within the report below, Critical Habitat is also available via:

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- A [zip file](#) containing all individual shapefiles and metadata for all species. *Updated: Sep 12, 2017*
- An [online mapper](#).

ArcGIS Online Web Services:

- Critical Habitat [ArcGIS Feature Service](#)
- Final Critical Habitat [ArcGIS Tile Service](#)
- Proposed Critical Habitat [ArcGIS Tile Service](#)



Designated Critical Habitat GIS DATA

Important note

Not all of the critical habitat data designated by the Fish & Wildlife Service is available from this portal. If you require critical habitat spatial data not available here, please contact the [FWS Lead Region](#) for that species

Common Name	Scientific Name	Where Listed	Species Group	FWS Lead Region	FWS Listing Status	Critical Habitat Type	Federal Register Publication	Critical Habitat Shapefile	Acres and Miles
Coqui, golden	Eleutherodactylus jasperi	Wherever found	Amphibians	Region 4	Threatened	Final	Federal Register (1977-11-11)	Download	329.0 acres
Coqui, Llanero	Eleutherodactylus juanariveroi	Wherever found	Amphibians	Region 4	Endangered	Final	Federal Register (2012-10-04)		
Frog, California red-legged	Rana draytonii	Wherever found	Amphibians	Region 8	Threatened	Final	Federal Register (2010-03-17)	Download	1641246. acres



Critical Habitat for TESS

Home ▾ Critical Habitat for Threatened & Endangere

Details | Basemap |

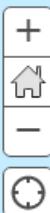
Legend

Final Linear Features

Final Polygon Features

Proposed Linear Features

Proposed Polygon Features



[ECOS](#) / U.S. FWS Threatened & Endangered Species Active Critical Habitat Report

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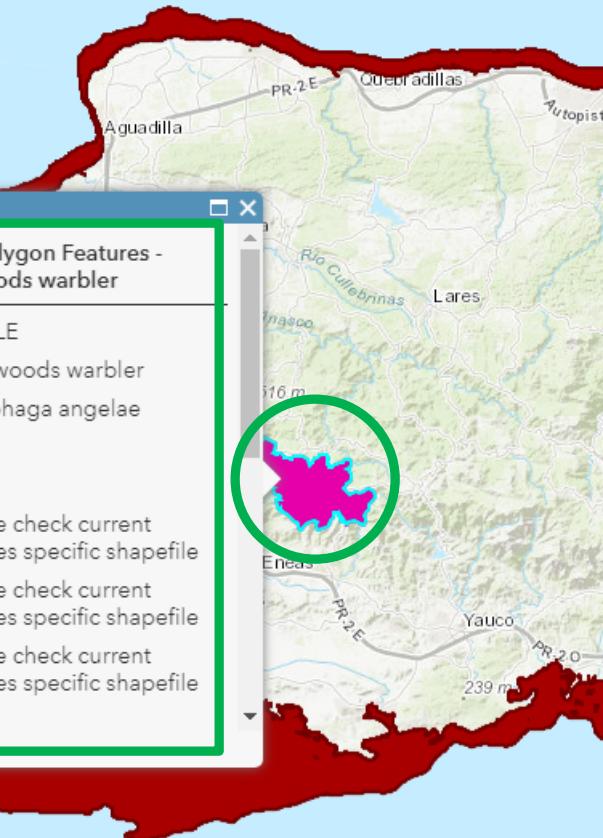
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- Final Critical Habitat [ArcGIS Tile Service](#)
- Proposed Critical Habitat [ArcGIS Tile Service](#)

Critical Habitat - Polygon Features -
Proposed: Elfin-woods warbler

singmulti	SINGLE
comname	Elfin-woods warbler
sciname	Setophaga angelae
spcode	B07V
vipcode	V01
unit	Please check current species specific shapefile
subunit	Please check current species specific shapefile
unitname	Please check current species specific shapefile
subunitnam	Please check current species specific shapefile

[Zoom to](#)





- Summary:
 - We know how to get to ECOS.
 - We know how to search species information.
 - We know how to get Critical Habitats information from TESS.



U.S. Fish & Wildlife Service

IPaC Information for Planning and Consultation

Powered by ECOS - the Environmental Conservation Online System

IPaC as a tool for ESA consultations



ECOS Environmental Conservation Online System

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[Information for Planning and Consultation \(IPaC\)](#)

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IPaC Information for Planning and Consultation

Powered by ECOS - the Environmental Conservation Online System

- What is IPaC?
 - The Information for Planning and Consultation
 - An interface of ECOS and TESS
 - Managed by the HQ and Field Offices
 - IPaC provides you up-front information to help reduce your design costs and environmental impacts and to ensure that measures you take contribute to the overall health of the species.
 - In IPaC, the Caribbean Field Office has uploaded species suitable habitats for the PR and USVI to assist with Section 7 Consultations.



- **What can I get from IPaC?**
 - **A Trust Resource List**
 - Threatened & Endangered Species (now available!)
 - Designated Critical Habitat Areas (now available!)
 - National Wildlife Refuges (now available!)
 - Migratory Birds (now available!)
 - Wetlands Conservation (future!)
 - Invasive Species Issues (future)
 - **Recommended USFWS Conservation Measures (CMs)** that detail how you can avoid, minimize, and mitigate impacts that may result from potential activities
 - **A Report containing all this information that can be downloaded and printed.**



- **What are our goals with IPaC?**
 - **Provide you as much information as possible up-front** to aid project design, reduce your design costs by minimizing the potential for design changes, and reduce environmental impacts.
 - **Be open, transparent, and consistent.** We want you to understand what a species needs and why.
 - **Ensure that any conservation measures you implement will make a real difference** and that we are not just asking you to do them just for the sake of doing *something*.



IPaC Information for Planning and Consultation

Powered by ECOS - the Environmental Conservation Online System

IPaC is a project planning tool which streamlines the USFWS environmental review process

[GET STARTED](#)

[LOG IN](#)

[Need an updated species list?](#)



Integrate the environmental review process into your project design

Quickly and easily identify USFWS managed resources and suggested conservation measures for your project.

You can access by:
<https://ecos.fws.gov/ipac/>

1 Find location

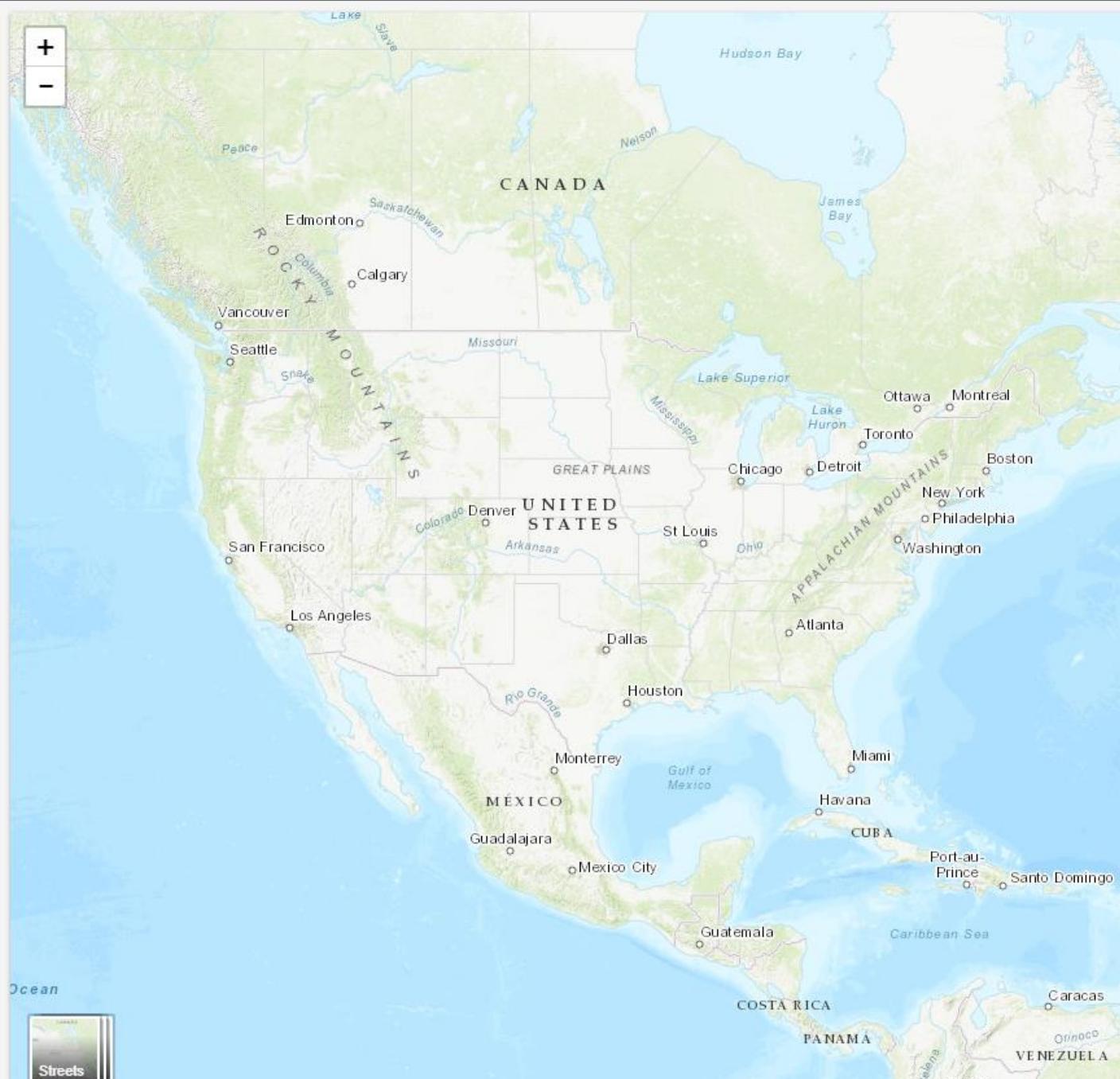
Search or zoom to find the project location

Or skip this step and:

[UPLOAD SHAPE FILE](#)

[SELECT BY STATE OR COUNTY](#)

2 Define area



1 Find location

Search or zoom to find the project location

Caguas

[Caguas, PRI](#)

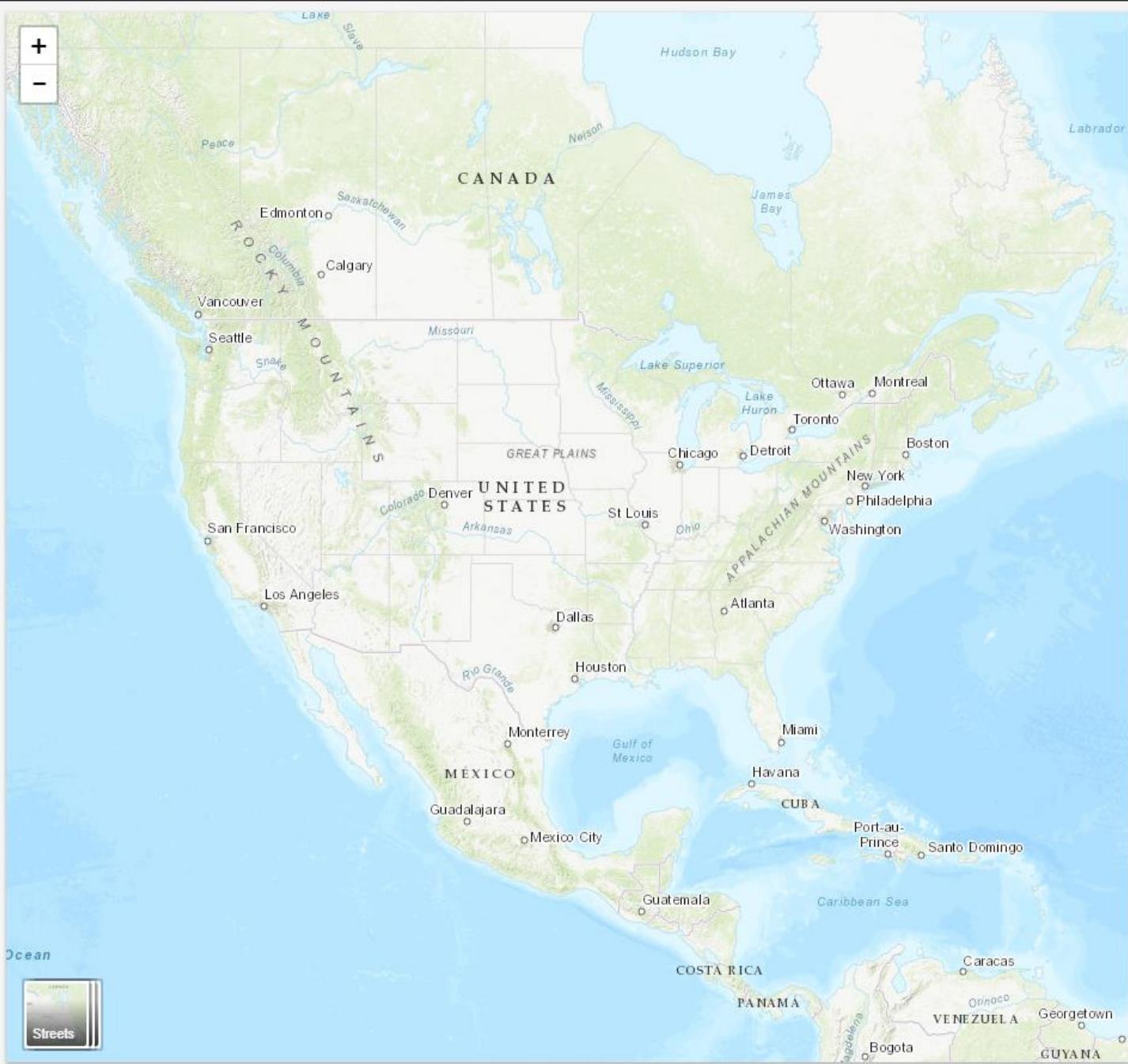
[Caguas Gardens, PRI](#)

[Caguas Zona Urbana, PRI](#)

[Caguas Norte, PRI](#)

[Caguas Municipio, PRI](#)

[DEFINING AREA](#)



Layers

ADD



1 Find location

2 Define area

Draw the area where activities will occur

Select a drawing tool

SKETCH

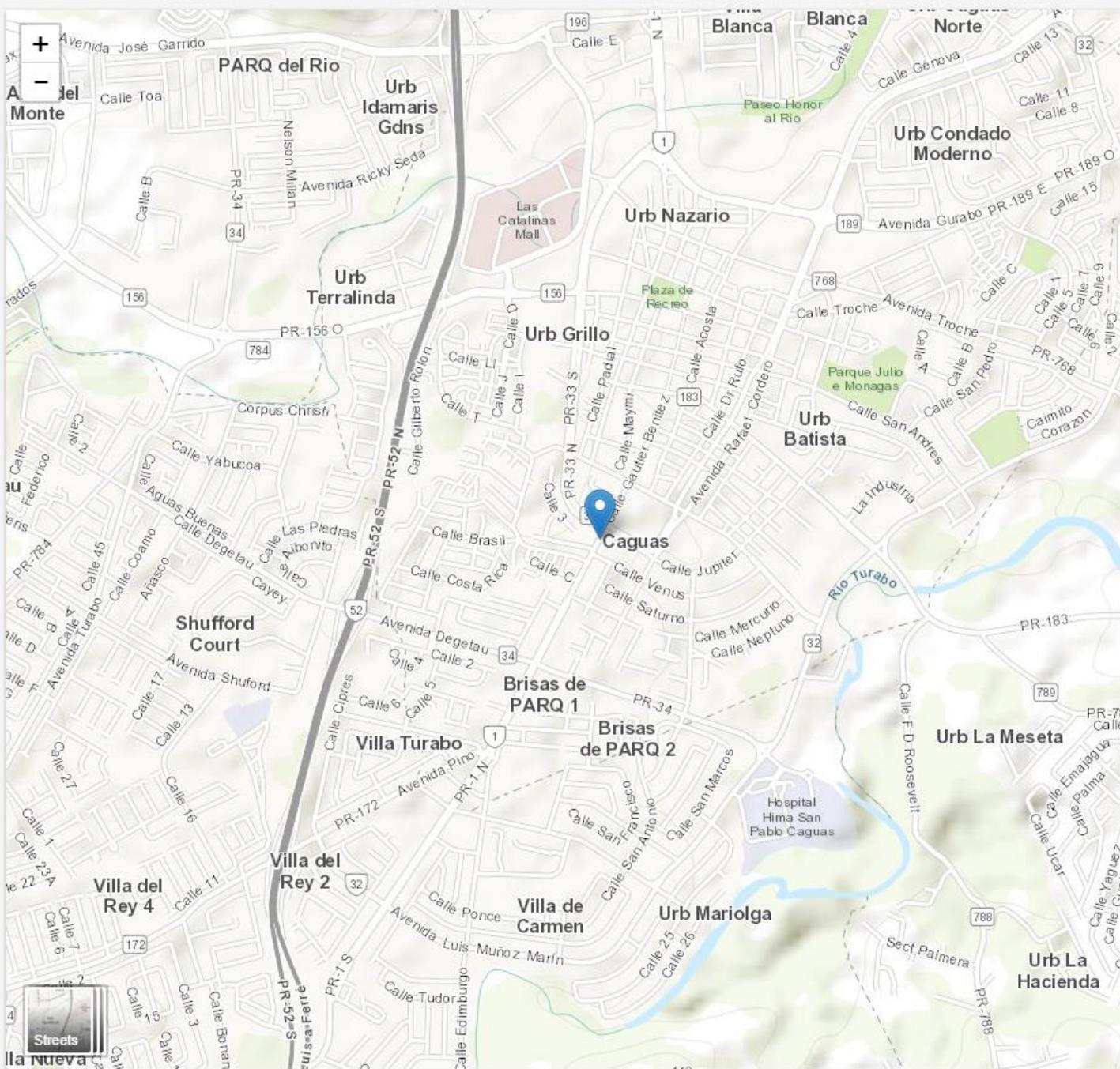
POLYGON

LINE

Other options:

[UPLOAD SHAPE FILE](#)

[SELECT BY STATE OR COUNTY](#)



1 Find location

2 Define area

3 Confirm

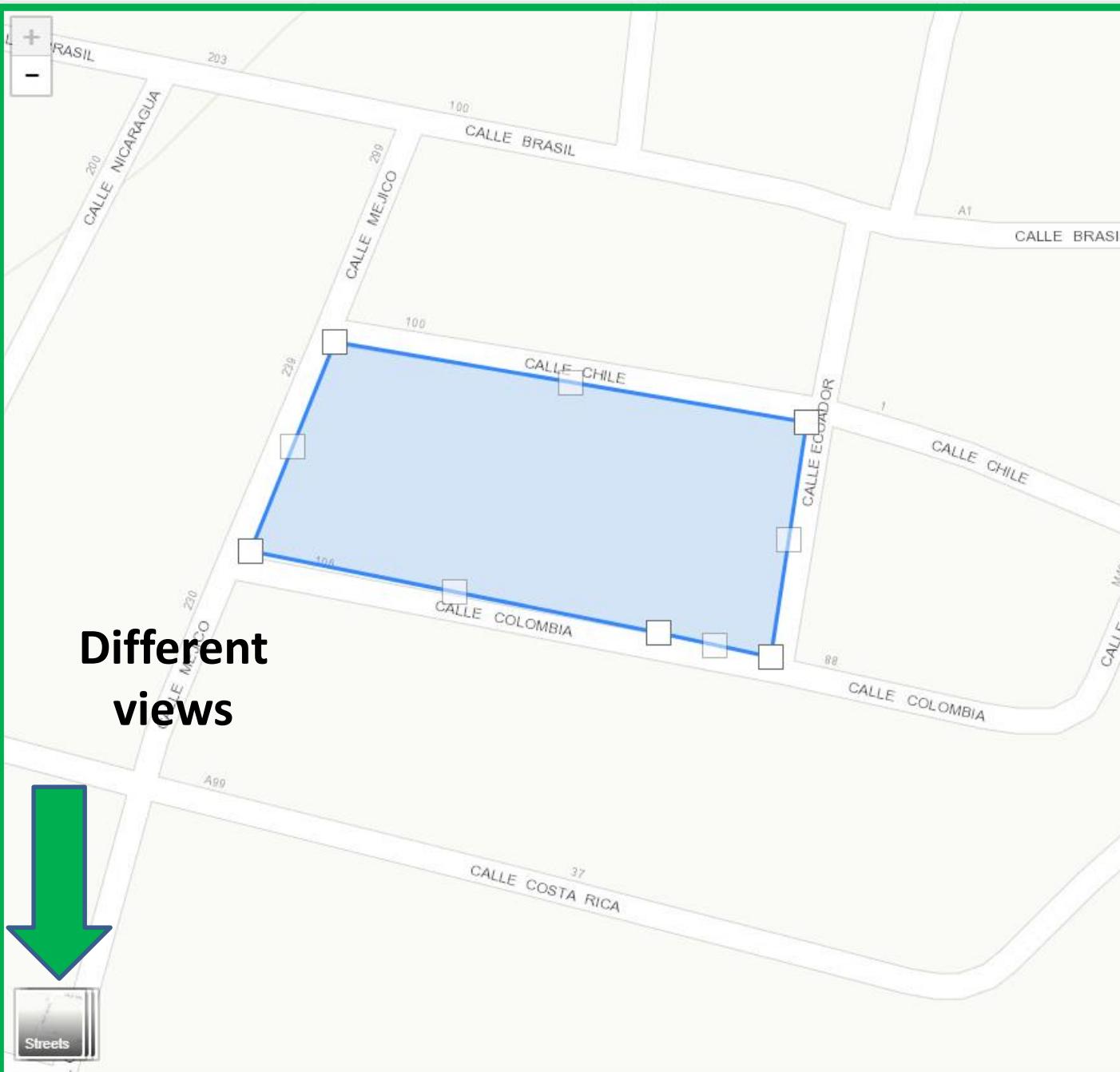
Verify the area where project activities will occur

Modify the shape by clicking and dragging the vertices or clicking on a solid vertex to remove it

AREA: 1.18 acres

CONTINUE

START OVER



1 Find location

2 Define area

3 Confirm

Verify the area where project activities will occur

Modify the shape by clicking and dragging the vertices or clicking on a solid vertex to remove it

AREA: 1.18 acres

CONTINUE

START OVER



Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾



LOCATION
Caguas County, Puerto Rico
[CHANGE LOCATION](#)

Resources

ENDANGERED SPECIES 2

MIGRATORY BIRDS

FACILITIES !

WETLANDS

[PRINT RESOURCE LIST](#)

What's next?

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

[DEFINE PROJECT](#)

Endangered species

Listed species ¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries ²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

Additional information on endangered species data is provided [below](#).

The following species are potentially affected by activities in this location:

[THUMBNAILS](#) [LIST](#)

[SPECIES GUIDELINES](#) ▾

Birds

Endangered



No photo available

Puerto Rican Plain Pigeon

Columba inornata wetmorei

Resources

ENDANGERED SPECIES 2

MIGRATORY BIRDS

FACILITIES !

WETLANDS

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What's next?

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

DEFINE PROJECT



No photo available

Puerto Rican Plain Pigeon

Columba inornata wetmorei

Reptiles

Endangered



Puerto Rican Boa

Epicrates inornatus

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

- › What does IPaC use to generate the list of endangered species potentially occurring in my specified location?
- › Do these lists represent all species to be considered at this location?
- › What is an 'official species list' and why would I need one?

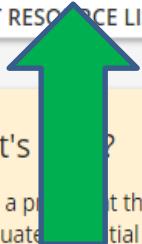
Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾



LOCATION
Caguas County, Puerto Rico
[CHANGE LOCATION](#)

Resources

[ENDANGERED SPECIES](#) 2[MIGRATORY BIRDS](#)[FACILITIES](#) ![WETLANDS](#)[PRINT RESOURCE LIST](#)

What's new?

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

[DEFINE PROJECT](#)

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The following species are potentially affected by activities in this location:

[THUMBNAILS](#)[LIST](#)[SPECIES GUIDELINES](#) ▾

Birds

[Endangered](#)

No photo available

Puerto Rican Plain Pigeon
Columba inornata wetmorei

Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾



LOCATION

Caguas County, Puerto Rico

CHANGE LOCATION

Resources

ENDANGERED SPECIES 2

MIGRATORY BIRDS

FACILITIES !

WETLANDS

[PRINT RESOURCE LIST](#)

What's next?

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

[DEFINE PROJECT](#)

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

▼ Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

➤ Data exclusions

➤ Data precautions

Resources

ENDANGERED SPECIES

2

MIGRATORY BIRDS

FACILITIES

!

WETLANDS

 PRINT RESOURCE LIST

What's next?

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DEFINE PROJECT

Puerto Rican Boa

Epicrates inornatus SPECIES GUIDELINES ▾

STATUS

Endangered; A species in danger of extinction throughout all or a significant portion of its range.

DESCRIPTION

The color is somewhat variable but usually ranges from pale to dark brown, sometimes grayish, with 70 to 80 darker colored blotches along the back from neck to vent. These dorsal blotches are generally dark-bordered with the centers of a lighter hue. Maximum size is approximately 6 and a half feet. Observations of captive specimens suggest that under natural conditions the diet of sub-adults and adults consists of birds, small mammals, and lizards. Rodríguez and Reagan (1984) report bat predation by the Puerto Rican boa. The boa feeds by seizing the prey in its jaws, wrapping several coils around the victim, and then constricting until the prey has suffocated. The prey is then swallowed head first. The feeding habits of the very young are unknown.

CRITICAL HABITAT

No critical habitat has been designated for this species.

SPECIES GUIDELINES

 [General project design guidelines](#)

For more information, visit the [ECOS species profile](#)

themselves.

g with the endangered species

Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾



LOCATION
Caguas County, Puerto Rico

CHANGE LOCATION

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Endangered

No photo available

Puerto Rican Plain Pigeon
Columba inornata wetmorei

SPECIES GUIDELINES ▾



**Conservation Measures
for the species in the
defined Project Area**

General Project Design Guidelines (1 Species)

Generated June 17, 2018 07:55 PM MDT, IPaC vunspecified



IPaC - Information for Planning and Consultation (<https://ecos.fws.gov/ipac>): A project planning tool to help streamline the U.S. Fish and Wildlife Service environmental review process.

Caribbean Ecological Services Field Office
General Project Design Guidelines - Puerto Rican Boa

CONSERVATION MEASURES FOR THE PUERTO RICAN BOA - USFWS

General Information:

The Endangered Puerto Rican boa (*Epicrates inornatus*) is an endemic species and it is the largest snake that inhabits the Puerto Rico Island Shelf. The color and pattern of the Puerto Rican boa is highly variable. The species color can range from tan to dark brown with irregular diffuse marking on the dorsum but some individuals lack marking and are uniformly dark. Juveniles have reddish brown ground color with numerous pronounced markings. The Puerto Rican boa can be found in the habitat range from the sea level to about 400 m of elevation. The boa tolerates a wide variety of habitat types ranging from wet montane to subtropical dry forest and can be found from virgin forest to areas that exhibit various degrees of human disturbance like roadside or out buildings. Boas are more active at night, remaining less active concealed or basking in the sun during the day. The U.S. Fish and Wildlife Service (Federal Register October 13, 1970) listed the Puerto Rican boa (*Epicrates inornatus*) as endangered in 1970 and it is protected by the Endangered Species Act of 1973, as amended. Any person that injures, captures, or kills a Puerto Rican boa is subject to penalties under federal law of up to \$100,000, one year in prison or a combination of both.

Recommendations:

The U.S. Fish and Wildlife Service (hereafter the Service) has developed recommendations to avoid or minimize impacts on the boa during a project development in an area where the boa may occur. The recommendations are the following:

- A. Prior to any earth movements or vegetation clearing, the boundaries of the project area, the buffer areas and areas to be protected should be clearly marked in the project plan and in the field.
- B. A pre-construction meeting should be conducted to inform supervisors and employees about the conservation of protected species, as well as penalties for harassing or harming such species.
- C. Prior to any use of machinery on areas where the boa may occur, the vegetation should be cleared by hand to provide time to the boa, if present, to be detected or move away from the area. All personnel involved in site clearing must be informed of the potential presence of the snake, and the importance of protecting the snakes.
- D. Before activities commence each workday during the vegetation clearing phase, the experienced personal in identifying and searching for boas should survey the areas to be cleared that day, to ensure that no boas are present or affected within the work area. If boas are found within the working area, activities should stop at the area where the boas are found until the boas move out of the area on their own. Activities at other work

If Project Design Guidelines are not available for the species, you should contact the CESFO

Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾



LOCATION
Caguas County, Puerto Rico
[CHANGE LOCATION](#)

Resources

[ENDANGERED SPECIES 2](#)[MIGRATORY BIRDS](#)[FACILITIES !](#)[WETLANDS](#)[!\[\]\(eab383c25696c57e6bcdb3ad61f0aab1_img.jpg\) PRINT RESOURCE LIST](#)

What's next?

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

[DEFINE PROJECT](#)

Endangered species

Listed species 1 and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries 2).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

Additional information on endangered species data is provided [below](#).

The following species are potentially affected by activities in this location:

[!\[\]\(f94a88d0b642b03be89839dc3b14c8c7_img.jpg\) THUMBNAILS](#)[!\[\]\(7aa2648ef3496e6ad22931acd3ac53ec_img.jpg\) LIST](#)[!\[\]\(135b55df618ef1058a8a3343aebecd6d_img.jpg\) SPECIES GUIDELINES ▾](#)

Birds

[Endangered](#)

No photo available

Puerto Rican Plain Pigeon

Columba inornata wetmorei

Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾

Resources

ENDANGERED SPECIES 2

MIGRATORY BIRDS

FACILITIES !

WETLANDS

[PRINT RESOURCE LIST](#)

What's next?

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

[DEFINE PROJECT](#)

Log in



GOOGLE LOGIN

You can use your Google or Bison profile as your IPaC account. You will need to allow IPaC to read your basic profile information.

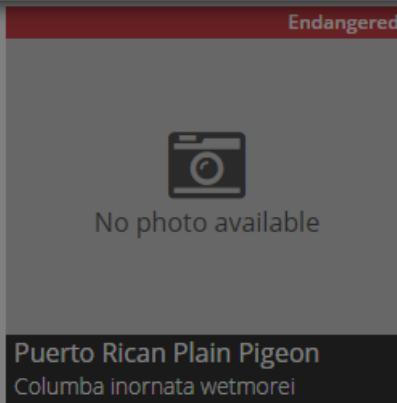
[LOG IN WITH GOOGLE](#)[LOG IN WITH BISON CONNECT](#)

OR

IPaC LOGIN

Email

Password

[Forgot password?](#)[LOG IN](#)[Create an account](#)[Why do I need an IPaC account?](#)

LOCATION

Caguas County, Puerto Rico

[CHANGE LOCATION](#)

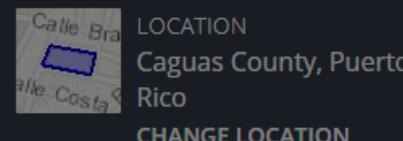
[Services Program](#) of the U.S.
Oceanic and Atmospheric

es are not shown on this list.

[SPECIES GUIDELINES](#) ▾

Explore location

LOCAL OFFICE CARIBBEAN ESFO ▾



Define project

Define a project at this location to evaluate potential impacts, get an official species list, and make species determinations.

Project name

Housing Rehabilitation for CESFO ROAD Show

Project description

Describe the location, size, scope, and timing of this project.

We are proposing to rehabilitate five houses in the....|

OPTIONAL

55/4000 characters

SAVE

CANCEL

You can add a project name and define the project description.



U.S. Fish & Wildlife Service

IPaC Information for Planning and Consultation

Powered by ECOS - the Environmental Conservation Online System

IPaC interface with the Tracking and Integrated Logging System (TAILS)



- What is TAILS?
 - Tracking and Integrated Logging System
 - An interface of IPaC and ECOS
 - Managed by Super Users in the Region.
 - Internet-based Field Office activity tracking system.
 - It is designed to promote and provide consistent recording and reporting of "Activities".

Housing Rehabilitation for CESFO ROAD Show

Caguas County,
Puerto Rico

[PROJECT HOME](#)[REGULATORY REVIEW](#)LOCAL OFFICE [CARIBBEAN ESFO](#) ▾

Housing Rehabilitation for CESFO ROAD Show

We are proposing to rehabilitate five houses in the....



LOCATION Caguas County, Puerto Rico

CREATED June 17, 2018

1 MEMBER

2 DOCUMENTS

Resources

What's next?

ENDANGERED SPECIES REVIEW

Review this project's effect on listed species [1](#) pursuant to the Endangered Species Act, as part of the overall regulatory review.

[START REVIEW](#)

SPECIES LIST

Requesting an official species list is now part of IPaC's endangered species review.

[REQUEST SPECIES LIST](#)

Local office

Caribbean Ecological Services Field Office

📞 (787) 851-7297

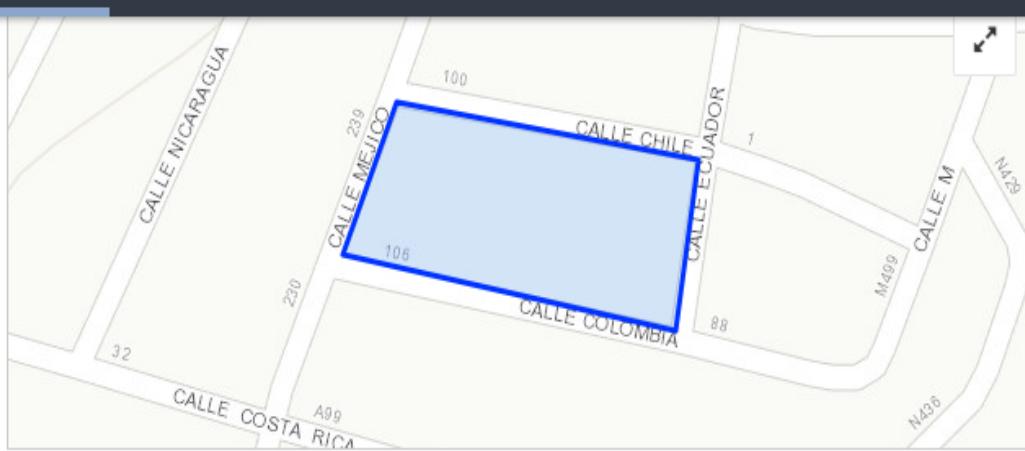
📠 (787) 851-7440

MAILING ADDRESS
Post Office Box 491

PROJECT HOME

REGULATORY REVIEW

LOCAL OFFICE CARIBBEAN ESFO ▾



LOCATION Caguas County, Puerto Rico

CREATED June 17, 2018

1 MEMBER

2 DOCUMENTS

Resources

This project potentially impacts 2 resources managed or regulated by the U.S. Fish and Wildlife Service.

- 2 endangered species
- Refuge and fish hatchery information is not available at this time

[SEE RESOURCES](#)[START REVIEW](#)

SPECIES LIST

Requesting an official species list is now part of IPaC's endangered species review.

[REQUEST SPECIES LIST](#)

Local office

Caribbean Ecological Services Field Office

📞 (787) 851-7297

📠 (787) 851-7440

MAILING ADDRESS

Post Office Box 491
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Carr 301, Km 5.1, Bo Corozo
Boqueron, PR 00622-0510

<http://www.fws.gov/caribbean/es>

Housing Rehabilitation for CESFO ROAD Show

Caguas County, Puerto Rico

[PROJECT HOME](#)[REGULATORY REVIEW](#)LOCAL OFFICE **CARIBBEAN ESFO** ▾

Housing Rehabilitation for CESFO ROAD Show

We are proposing to rehabilitate five houses in the....



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📞 (787) 851-7297

📠 (787) 851-7440

MAILING ADDRESS
Post Office Box 491

Housing Rehabilitation for CESFO ROAD Show Caguas County, Puerto Rico

Endangered species review

[◀ BACK](#)[EXIT REVIEW](#)

- 1 Request an official species list
- 2 Evaluate determination keys
- 3 Make effect determinations

Step 1: Request an official species list

An official species list is a letter from the local U.S. Fish and Wildlife Service office with information that assists in the evaluation of potential impacts of this project. It includes a list of species that should be considered under [Section 7](#) of the Endangered Species Act, a project tracking number, and other pertinent information from the local office.

Does this project require an official species list?

Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action" ([Section 7](#) of the Endangered Species Act).

This requirement applies to projects that are conducted, permitted, funded, or licensed by any Federal agency.

[YES, REQUEST A SPECIES LIST](#)[SKIP / DOES NOT APPLY](#)

My contact information

Please provide your work contact information only. Personal information **should not** be provided.

Agency / organization type

Please select

Please select the type of agency or organization filling out this request.

Full name

Angel Colon

Street address

OPTIONAL

City

State

--

Zip

Phone

Save this information to my profile

Project information

Project name

Housing Rehabilitation for CESFO ROAD Show

Project description

Describe the location, size, scope, and timing of this project.

We are proposing to rehabilitate five houses in the....

Project information

Project name

Housing Rehabilitation for CESFO ROAD Show

Project description

Describe the location, size, scope, and timing of this project.

We are proposing to rehabilitate five houses in the....

Location



Lead agency

The agency responsible for conducting, permitting, or licensing this action.

Use my contact agency / organization above

Classification

For internal reporting, help us classify the type of this project.

Development



I understand that I am providing this information so an official species list can be generated, based on data provided by my local U.S. Fish and Wildlife Service office for the project area that I entered.

The following authorizes the collection of the above information (5 U.S.C. 301; the Federal Records Act, 44 U.S.C. 3101; Homeland Security Act of 2002; Public Law 107-296, 6 U.S.C. 121; and Executive Order 9373) and will be maintained in accordance with the Privacy Act (5 U.S.C. 552a).

SUBMIT OFFICIAL SPECIES LIST REQUEST

Housing Rehabilitation for CESFO ROAD Show Caguas County, Puerto Rico

Endangered species review

[BACK](#)

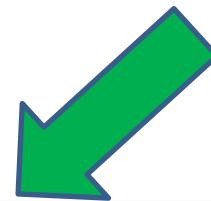
[EXIT REVIEW](#)

- 1 Request an official species list
- 2 Evaluate determination keys
- 3 Make effect determinations

Step 1: Request an official species list

An official species list is a letter from the local U.S. Fish and Wildlife Service office with information that assists in the evaluation of potential impacts of this project. It includes a list of species that should be considered under [Section 7](#) of the Endangered Species Act, a project tracking number, and other pertinent information from the local office.

Wait for the documents!



Processing species list request

The request was submitted on June 17, 2018 at 8:31 PM MDT.

Your species list request was submitted and is currently being processed. An official species list will be available momentarily. Note that official species lists are no longer emailed.

You may continue your review, or wait for the processing to complete. This page will refresh when the official species list is available. After processing, the official species list can also be found on the [Documents](#) page.

[RETURN TO REGULATORY REVIEW](#)

Housing Rehabilitation for CESFO ROAD Show Caguas County, Puerto Rico

Endangered species review

[◀ BACK](#)[EXIT REVIEW](#)

-  Request an official species list —————  Evaluate determination keys —————  Make effect determinations

Step 1: Request an official species list

An official species list is a letter from the local U.S. Fish and Wildlife Service office with information that assists in the evaluation of potential impacts of this project. It includes a list of species that should be considered under [Section 7](#) of the Endangered Species Act, a project tracking number, and other pertinent information from the local office.

 Species list request complete

This species list was generated [less than a minute ago](#). Species lists are considered valid for 90 days.

An official species list has been generated for the following office.

 [Species List: Caribbean Ecological Services Field Office](#)

This document is also available on the [Documents](#) page.

[RETURN TO REGULATORY REVIEW](#)[REQUEST UPDATED SPECIES LIST](#)



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (787) 851-7297 Fax: (787) 851-7440
<http://www.fws.gov/caribbean/cs>



In Reply Refer To:

Consultation Code: 04EC1000-2018-SLI-0522

Event Code: 04EC1000-2018-E-00638

Project Name: Housing Rehabilitation for CESFO ROAD Show

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

THE FOLLOWING SPECIES LIST IS NOT A SECTION 7 CONSULTATION. PLEASE CONTACT OUR OFFICE TO COMPLETE THE CONSULTATION PROCESS

The purpose of the Endangered Species Act (Act) is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect those species and/or their designated critical habitat.

Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". The enclosed species list provides information to assist with the consultation process with the U.S. Fish and Wildlife Service (Service) under section 7 of the Act. However, the enclosed species list **does not complete the required consultation process**. The species list identifies threatened, endangered, proposed and candidate species, as well as proposed and designated critical habitats, that may occur within the boundary of your proposed project and/or may be affected by your proposed project.

A discussion between the Federal agency and the Service should include what types of listed species may occur in the proposed action area, and what effect the proposed action may have on those species. This process initiates informal consultation.

June 17, 2018

06/17/2018

Event Code: 04EC1000-2018-E-00638

2

Project Summary

Consultation Code: 04EC1000-2018-SLI-0522

Event Code: 04EC1000-2018-E-00638

Project Name: Housing Rehabilitation for CESFO ROAD Show

Project Type: DEVELOPMENT

Project Description: We are proposing to rehabilitate five houses in the....

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/18.225982112271893N66.04229840189534W>



Counties: Caguas, PR

Housing Rehabilitation for CESFO ROAD Show

Caguas County,
Puerto Rico

[PROJECT HOME](#)[REGULATORY REVIEW](#)LOCAL OFFICE [CARIBBEAN ESFO](#) ▾

Regulatory review

The IPaC regulatory review process helps evaluate the potential impacts of your project on resources managed by the U.S. Fish and Wildlife Service. It walks through regulations covering each protected resource, and offers suggestions and assistance in designing your project.

Endangered species

Endangered species are protected under the Endangered Species Act [1](#).

[2 endangered species](#) are known to occur or may be affected by activities in this location.

- Request an official species list

An [official species list](#) was generated 10 minutes ago.

- 2 Evaluate determination keys

There are no determination keys available in this project area.

- 3 Make effect determinations

For each listed species in the project area, a determination must be made regarding the potential effects of this project.

Will be available soon!

[REVIEW SPECIES](#)

Now what?

- Use the Project Guidelines to plan your project.
- Add them to you planning, recognize the species presence.
- Make your determination in base of the information obtained.
- Contact our biologists if you need assistance.
- Send the project package with the consultation code to the office for concurrence.





National Wetlands Inventory
surface waters and wetlands

National Wetlands Inventory



- What is the National Wetland Inventory (NWI)?
 - is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of US wetlands.
 - NWI data are used by natural resource managers, within the US FWS and throughout the Nation, to promote the understanding, conservation and restoration of wetlands.
 - You can access to <https://www.fws.gov/wetlands/>



National Wetlands Inventory

[Google NWI Website & Documents](#)[Ecological Services](#)[NWI Home](#)[Wetlands Data](#)[Status & Trends](#)[Wetlands Mapping](#)[NWI](#)[Other Topics](#)[Contacts](#)[FAQs](#)[Search](#)Credit: USFWS Madison Wetland Management District, South Dakota

Wetlands

Wetlands provide a multitude of ecological, economic and social benefits. They provide habitat for fish, wildlife and plants - many of which have a commercial or recreational value - recharge groundwater, reduce flooding, provide clean drinking water, offer food and fiber, and support cultural and recreational activities. Unfortunately, over half of America's wetlands have been lost since 1780, and wetland losses continue today. This highlights the urgent need for geospatial information on wetland extent, type, and change.



The National Wetlands Inventory

The US Fish and Wildlife Service (FWS) is the principal US Federal agency tasked with providing information to the public on the status and trends of our Nation's wetlands. The US FWS National Wetlands Inventory (NWI) is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of US wetlands. NWI data are used by natural resource managers, within the US FWS and throughout the Nation, to promote the understanding, conservation and restoration of wetlands.

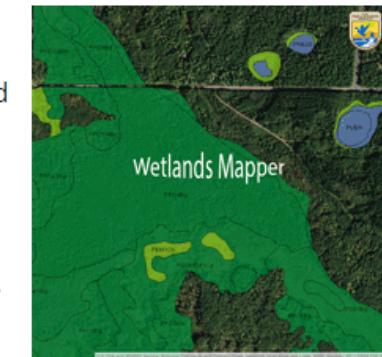
Horicon National Wildlife Refuge. Credit: USFWS.



Wetlands Mapper

The Wetlands mapper is designed to deliver easy-to-use, map like views of America's Wetland resources. It integrates digital map data along with other resource information to produce current information on the status, extent, characteristics and functions of wetlands, riparian, and deepwater habitats. The Wetland Mapper fulfills the U.S. Fish and Wildlife Service's strategic plan for the development, revision and dissemination of wetlands data and information to resource managers and the public. This information is intended to promote the understanding and conservation of wetland resources through discovery and education as well as to aid in resource management, research and decision making.

The wetlands displayed on the Wetlands Mapper show wetland type and extent using a biological definition of wetlands. There is no attempt to define the limits of proprietary jurisdiction of any Federal, State, or local government, or to establish the geographical scope of the regulatory programs of government agencies.



1

Please read the [Disclaimer](#), [Data Limitations](#), [Exclusions](#) and [Precautions](#), and the [Wetlands Geodatabase User Caution](#).

2

Refer to the following links for documentation and instructions:

- [Wetlands Mapper Documentation and Instructions Manual \(PDF\)](#)
- [VIDEO: How to find and use the U.S Fish and Wildlife Service's Wetlands Mapper](#)

3

Open any Mapper by clicking on the map icons below (best viewed by maximizing your browser window):

Wetlands Mapper

NWI data desktop/mobile viewer;
data last modified May 1, 2018.



Projects Mapper

Recent wetland data additions and active wetland mapping projects.



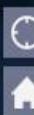


BASEMAPS >



... Measure

MAP LAYERS >



Wetlands

Riparian

Riparian Mapping Areas

Data Source

Source Type

Image Scale

Image Year

Areas of Interest

FWS Managed Lands

Historic Wetland Data



1:1,155,581
17.249 | -66.843



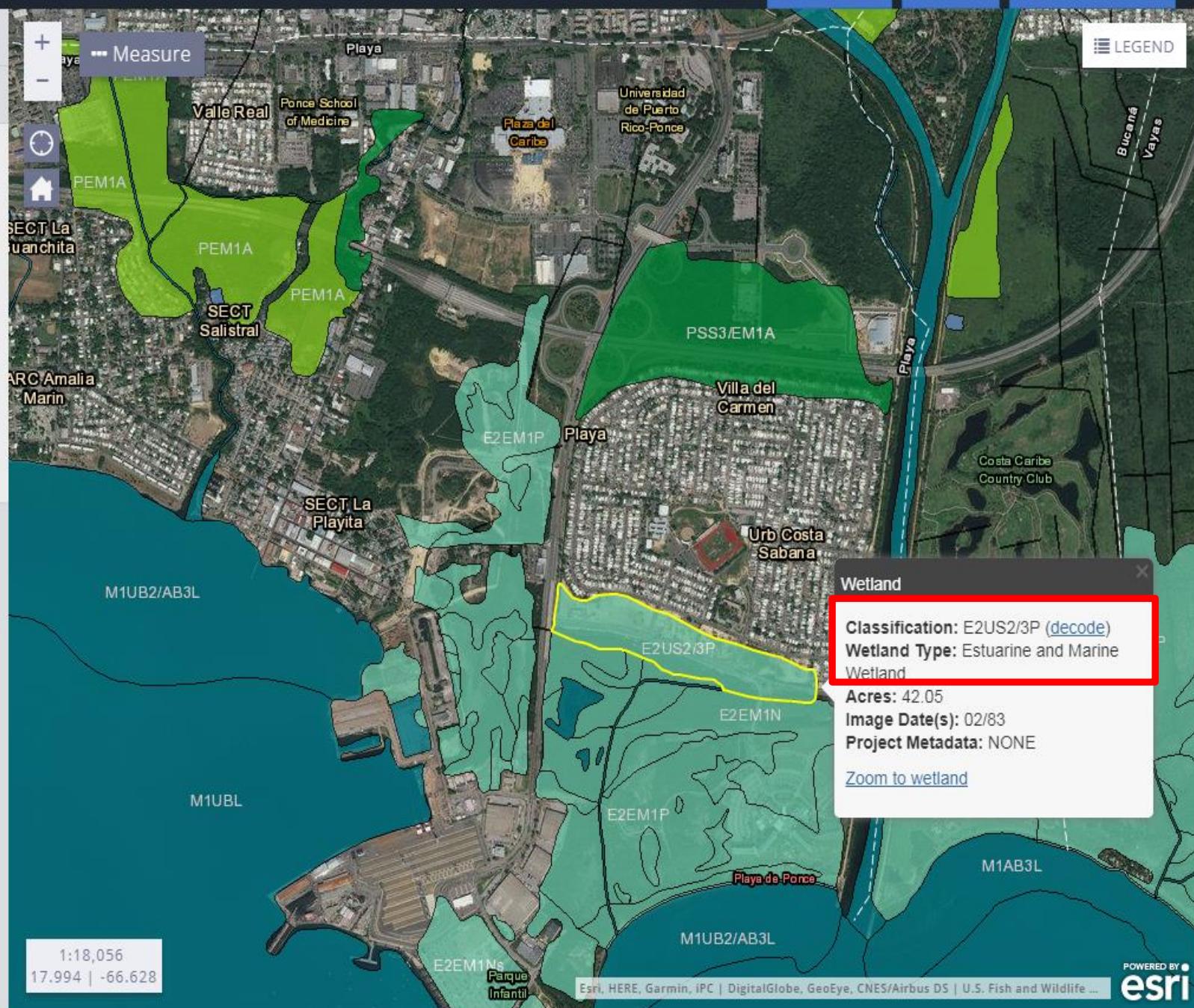
BASEMAPS >

+ --- Measure -

LEGEND

MAP LAYERS >

- Wetlands
- Riparian
- Riparian Mapping Areas
- Data Source
 - Source Type
 - Image Scale
 - Image Year
- Areas of Interest
- FWS Managed Lands
- Historic Wetland Data





National Wetlands Inventory

Enter Classification code: (Example: L1UB1Hx)

Optional: For geographically specific information*, please enter a State code: (Example: TX for Texas)

CLICK HERE TO DECODE

Description for code E2US2/3P:

- E** System **ESTUARINE**: The Estuarine System consists of deepwater tidal habitats and adjacent tidal wetlands that are usually semiclosed by land but have open, partly obstructed, or sporadic access to the open ocean, and in which ocean water is at least occasionally diluted by freshwater runoff from the land. The salinity may be periodically increased above that of the open ocean by evaporation. Along some low-energy coastlines there is appreciable dilution of sea water. Offshore areas with typical estuarine plants and animals, such as red mangroves (*Rhizophora mangle*) and eastern oysters (*Crassostrea virginica*), are also included in the Estuarine System.
- 2** Subsystem **INTERTIDAL**: The substrate in these habitats is flooded and exposed by tides; includes the associated splash zone.
- US** Class **UNCONSOLIDATED SHORE**: Includes all wetland habitats having two characteristics: (1) unconsolidated substrates with less than 75 percent areal cover of stones, boulders or bedrock and; (2) less than 30 percent areal cover of vegetation. Landforms such as beaches, bars, and flats are included in the Unconsolidated Shore class.
- 2** Subclass **Sand**: The unconsolidated particles smaller than stones are predominantly sand, although finer or coarser sediments may be intermixed.
- 3** Subclass **Mud**: The unconsolidated particles smaller than stones are predominantly silt and clay, although coarser sediments or organic material may be intermixed.
- P** Water Regime **Irregularly Flooded**: Tides flood the substrate less often than daily.

Now what?

- A wetland delineation will be needed.
- You should contact the Army Corps of Engineers (COE).
- The COE will lead you through the process.





Questions?

Contact information:

Angel Giovannie Colón-Santiago

angel_colon-santiago@fws.gov

(787) 851-7297 x 214