

# Cooperative Land Cover v3.4 Raster - Site Classes

## Metadata:

### *Identification\_Information:*

*Citation:*

*Citation\_Information:*

*Originator:* FWC-FWRI

*Publication\_Date:* 2020

*Title:* Cooperative Land Cover v3.4 Raster - Site Classes

*Edition:* Version 3.4

*Geospatial\_Data\_Presentation\_Form:* raster digital data

*Other\_Citation\_Details:*

Edition Date: 2020 01

Suggested citation: Florida Fish and Wildlife Conservation Commission and Florida Natural Areas Inventory. 2014. Cooperative Land Cover version3.1 Raster. Tallahassee, FL.

*Online\_Linkage:*

<http://myfwc.com/research/gis/applications/articles/fl-land-cover-classification/>

*Description:*

*Abstract:*

The Cooperative Land Cover Map is a project to develop an improved statewide land cover map from existing sources and expert review of aerial photography. The project is directly tied to a goal of Florida's State Wildlife Action Plan (SWAP) to represent Florida's diverse habitats in a spatially-explicit manner. The Cooperative Land Cover Map integrates 3 primary data types: 1) 6 million acres are derived from local or site-specific data sources, primarily on existing conservation lands. Most of these sources have a ground-truth or local knowledge component. We collected land cover and vegetation data from 37 existing sources. Each dataset was evaluated for consistency and quality and assigned a confidence category that determined how it was integrated into the final land cover map. 2) 1.4 million acres are derived from areas that FNAI ecologists reviewed with high resolution aerial photography. These areas were reviewed because other data indicated some potential for the presence of a focal community: scrub, scrubby flatwoods, sandhill, dry prairie, pine rockland, rockland hammock, upland pine or mesic flatwoods. 3) 3.2 million acres are represented by Florida Land Use Land Cover data from the

FL Department of Environmental Protection and Water Management Districts (FLUCCS). The Cooperative Land Cover Map integrates data from the following years: NFWMD: 2006 - 07 SRWMD: 2005 - 08 SJRWMD: 2004 SFWMD: 2004 SWFWMD: 2008 All data were crosswalked into the Florida Land Cover Classification System. This project was funded by a grant from FWC/Florida's Wildlife Legacy Initiative (Project 08009) to Florida Natural Areas Inventory. The current dataset is provided in 10m raster grid format.

Changes from Version 1.1 to Version 2.3: CLC v2.3 includes updated Florida Land Use Land Cover for four water management districts as described above: NFWMD, SJRWMD, SFWMD, SWFWMD. CLC v2.3 incorporates major revisions to natural coastal land cover and natural communities potentially affected by sea level rise. These revisions were undertaken by FNAI as part of two projects: Re-evaluating Florida's Ecological Conservation Priorities in the Face of Sea Level Rise (funded by the Yale Mapping Framework for Biodiversity Conservation and Climate Adaptation) and Predicting and Mitigating the Effects of Sea-Level Rise and Land Use Changes on Imperiled Species and Natural communities in Florida (funded by an FWC State Wildlife Grant and The Kresge Foundation). FNAI also opportunistically revised natural communities as needed in the course of species habitat mapping work funded by the Florida Department of Environmental Protection. CLC v2.3 also includes several new site specific data sources: New or revised FNAI natural community maps for 13 conservation lands and 9 Florida Forever proposals; new Florida Park Service maps for 10 parks; Sarasota County Preserves Habitat Maps (with FNAI review); Sarasota County HCP Florida Scrub-Jay Habitat (with FNAI Review); Southwest Florida Scrub Working Group scrub polygons. Several corrections to the crosswalk of FLUCCS to FLCS were made, including review and reclassification of interior sand beaches that were originally crosswalked to beach dune, and reclassification of upland hardwood forest south of Lake Okeechobee to mesic hammock. Representation of state waters was expanded to include the NOAA Submerged Lands Act data for Florida.

Changes from Version 2.3 to 3.0: All land classes underwent revisions to correct boundaries, mislabeled classes, and hard edges between classes. Vector data was compared against high resolution Digital Ortho Quarter Quads (DOQQ) and Google Earth imagery. Individual land cover classes were converted to .KML format for use in Google Earth. Errors identified through visual review were manually corrected. Statewide medium resolution (spatial resolution of 10 m) SPOT 5 images were available for remote sensing classification with the following spectral bands: near infrared, red, green and short wave infrared. The acquisition dates of SPOT images ranged between October, 2005 and October, 2010. Remote sensing classification was performed in Idrisi Taiga and Erdas Imagine. Supervised and unsupervised classifications

of each SPOT image were performed with the corrected polygon data as a guide. Further visual inspections of classified areas were conducted for consistency, errors, and edge matching between image footprints. CLC v3.0 now includes state wide Florida NAVTEQ transportation data. CLC v3.0 incorporates extensive revisions to scrub, scrubby flatwoods, mesic flatwoods, and upland pine classes. An additional class, scrub mangrove – 5252, was added to the crosswalk. Mangrove swamp was reviewed and reclassified to include areas of scrub mangrove. CLC v3.0 also includes additional revisions to sand beach, riverine sand bar, and beach dune previously misclassified as high intensity urban or extractive. CLC v3.0 excludes the Dry Tortugas and does not include some of the small keys between Key West and Marquesas. Changes from Version 3.0 to Version 3.1: CLC v3.1 includes several new site specific data sources: Revised FNAI natural community maps for 31 WMAs, and 6 Florida Forever areas or proposals. This data was either extracted from v2.3, or from more recent mapping efforts. Domains have been removed from the attribute table, and a class name field has been added for SITE and STATE level classes. The Dry Tortugas have been reincorporated. The geographic extent has been revised for the Coastal Upland and Dry Prairie classes. Rural Open and the Extractive classes underwent a more thorough review. Changes from Version 3.1 to Version 3.2: CLC v3.2 includes several new site specific data sources: Revised FNAI natural community maps for 43 Florida Park Service lands, and 9 Florida Forever areas or proposals. This data is from 2014 - 2016 mapping efforts. SITE level class review: Wet Coniferous plantation (2450) from v2.3 has been included in v3.2. Non-Vegetated Wetland (2300), Urban Open Land (18211), Cropland/Pasture (18331), and High Pine and Scrub (1200) have undergone thorough review and reclassification where appropriate. Other classification errors were opportunistically corrected as found or as reported by users to [landcovermap@myfwc.com](mailto:landcovermap@myfwc.com). Changes from Version 3.2.5 to Version 3.3: The CLC v3.3 includes several new site specific data sources: Revised FNAI natural community maps for 14 FWC managed or co-managed lands, including 7 WMA and 7 WEA, 1 State Forest, 3 Hillsboro County managed areas, and 1 Florida Forever proposal. This data is from the 2017 – 2018 mapping efforts. Select sites and classes were included from the 2016 – 2017 NFWFMD (FLUCCS) dataset. M.C. Davis Conservation areas, 18331x agricultural classes underwent a thorough review and reclassification where appropriate. Prairie Mesic Hammock (1122) was reclassified to Prairie Hydric Hammock (22322) in the Everglades. All SITE level Tree Plantations (18333) were reclassified to Coniferous Plantations (183332). The addition of FWC Oyster Bar (5230) features. Other classification errors were opportunistically corrected as found or as reported by users to [landcovermap@myfwc.com](mailto:landcovermap@myfwc.com), including classification corrections to sites in

T.M. Goodwin and Ocala National Forest. CLC v3.3 utilizes the updated The Florida Land Cover Classification System (2018), altering the following class names and numbers: Irrigated Row Crops (1833111), Wet Coniferous Plantations (1833321) (formerly 2450), Major Springs (4131) (formerly 3118). Mixed Hardwood-Coniferous Swamps (2240) (formerly Other Wetland Forested Mixed).

*Purpose:*

The purpose of the Cooperative Land Cover Map is to fill a priority data gap of Florida's State Wildlife Action Plan (SWAP) for improved habitat mapping. In addition it provides significantly improved data for scrub and sandhill, priority habitats of the SWAP. The map will inform a variety of conservation and management activities in Florida.

*Supplemental\_Information:*

Full reports for version 3.4 are available from FWC upon request if not supplied with these data.

Data sources that contribute to the Cooperative Land Cover Map are described in the following report: Florida Natural Areas Inventory, 2010. Development of a Cooperative Land Cover Map: Final Report (available from FNAI upon request).

A supplementary feature class that identifies individual data sources that contribute to the map is available from FNAI upon request (Data\_Sources\_CLC\_v1\_1).

A supplementary feature class that contains only the focal natural communities that were revised for the Cooperative Land Cover Map is available upon request from FNAI (Focal\_NC\_Map\_CLC\_v1\_1).

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2008

*Ending\_Date:* 2019

*Currentness\_Reference:* ground condition

*Status:*

*Progress:* In work

*Maintenance\_and\_Update\_Frequency:* Continually

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -87.639382

*East\_Bounding\_Coordinate:* -79.813606

*North\_Bounding\_Coordinate:* 31.042668

*South\_Bounding\_Coordinate:* 24.353591

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* FWC Theme

*Theme\_Keyword:* land cover

*Theme\_Keyword:* habitat

*Theme\_Keyword:* natural community

*Theme\_Keyword:* vegetation

*Theme\_Keyword:* Florida Land Cover Classification System

*Theme\_Keyword:* Florida Land Cover and Forms Classification System

*Theme:*

*Theme\_Keyword\_Thesaurus:* User

*Theme\_Keyword:* land use/land cover

*Place:*

*Place\_Keyword\_Thesaurus:* FWC Place

*Place\_Keyword:* Florida

*Access\_Constraints:* Available without restriction

*Use\_Constraints:*

Data are intended to be used for general informational and planning purposes and not appropriate for legal, regulatory and/or cadastral purposes

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Land Cover Map

*Contact\_Organization:*

Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

*Contact\_Position:* Land Cover Map

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* Fish and Wildlife Research Institute

*Address:* 620 S. Meridian St 5B6

*City:* Tallahassee

*State\_or\_Province:* FL

*Postal\_Code:* 32399

*Contact\_Electronic\_Mail\_Address:* landcovermap@MyFWC.com

*Data\_Set\_Credit:*

Data compiled from multiple sources by Florida Fish and Wildlife Conservation Commission (FWC) and Florida Natural Areas Inventory (FNAI).

*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

Classification accuracy varies among data sources that contribute to the map. Metadata related to accuracy were not available for all sources. Some data sources were field verified. Most data were created through interpretation of aerial photography and other ancillary information.

A classification accuracy assessment was completed in 2014 as part of continued improvements to the data.

*Logical\_Consistency\_Report:*

Logically consistent. All attribute values fall within defined values

*Completeness\_Report:*

Visually inspected for completeness to ensure all values fell within specified ranges and all pixel cells were classified.

*Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:*

Horizontal accuracy is not better than the source imagery upon which individual source datasets were developed. Most source imagery is from two primary sources:

1) Florida's Ortho program imagery at 1 foot resolution; that meets or exceeds a verified horizontal accuracy of 7.6 feet at the 95% confidence interval (4.4 feet RMSE) as specified in the FGDC Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy (NSSDA).

2) USGS's 3.75 minute Digital Ortho Quarter Quad (DOQQ) program imagery which meets National Map Accuracy Standards for products developed at 1:12K scale which specifies that over "90% of well defined points tested must fall within 33 feet" of ground condition and National Aerial Photography Program Standards.

*Vertical\_Positional\_Accuracy:*

*Vertical\_Positional\_Accuracy\_Report:* None

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:*

Florida Department of Environmental Protection, Bureau of Watershed Restoration

*Publication\_Date:* 20090304

*Title:* fluccs\_northwest\_2006\_07

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2006  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* NFWMD 2006 - 07 Land Use Land Cover  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:*  
Florida Department of Environmental Protection, Bureau of Watershed  
Restoration  
*Publication\_Date:* 2008  
*Title:* fluccs\_suwannee\_2005\_08  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Range\_of\_Dates/Times:*  
*Beginning\_Date:* 2006  
*Ending\_Date:* 2008  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* SRWMD 2005 - 2008 Land Use Land Cover  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* St. Johns River Water Management District  
*Publication\_Date:* 200611  
*Title:* SJRWMD Land Use and Land Cover (2004)  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Single\_Date/Time:*  
*Calendar\_Date:* 2004  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* SJRWMD Land Use and Land Cover (2004)  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* Photo Science, Inc.  
*Publication\_Date:* 2004  
*Title:* SFWMD 2004-05 Land Cover Land Use

*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
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*Calendar\_Date:* 2004  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* SFWMD 2004\_05 LCLU  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* Southwest Florida Water Management District  
*Publication\_Date:* 2008  
*Title:* SFWMD 2008 Land Use Land Cover  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
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*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* SFWMD 2008 Land Use Land Cover  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* Florida Natural Areas Inventory (FNAI)  
*Publication\_Date:* 2010  
*Title:* FNAI Natural Community Mapping Projects 2003 - 2010  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Range\_of\_Dates/Times:*  
*Beginning\_Date:* 2003  
*Ending\_Date:* 2010  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* FNAI Natural Community Mapping Projects  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* Florida Natural Areas Inventory

*Publication\_Date:* 1999  
*Title:* Eglin Air Force Base Land Cover Map  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Single\_Date/Time:*  
*Calendar\_Date:* 1997  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* Eglin Air Force Base Land Cover Map  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* Avon Park Air Force Range  
*Publication\_Date:* 1999  
*Title:* Avon Park Air Force Range Natural Vegetation Communities  
*Other\_Citation\_Details:* Data provided by Steve Orzell, APAFR  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Single\_Date/Time:*  
*Calendar\_Date:* 1999  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* Avon Park Air Force Range Natural Vegetation Communities  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* U. S. Fish and Wildlife Service  
*Publication\_Date:* 2009  
*Title:* St. Marks National Wildlife Refuge Habitats  
*Other\_Citation\_Details:* Data provided by Mike Keys, USFWS  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Range\_of\_Dates/Times:*  
*Beginning\_Date:* 2004  
*Ending\_Date:* 2009  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* St. Marks National Wildlife Refuge Habitats

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Florida Natural Areas Inventory

*Publication\_Date:* 2010

*Title:* Flint Rock Natural Community Map

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2010

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Flint Rock Natural Community Map

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Florida Natural Areas Inventory

*Publication\_Date:* 2009

*Title:* Cape Canaveral Air Force Station Natural Community Map

*Other\_Citation\_Details:*

Gulledge, K., G. Schultz, and A. Johnson. 2009. Coastal maritime hammock evaluation and delineation, Cape Canaveral Air Force Station, Florida: Final Report. Florida Natural Areas Inventory, Tallahassee, Florida, USA.

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2009

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Cape Canaveral Air Force Station Natural Community Map

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:*

Archbold Biological Station; Florida Natural Areas Inventory; The Nature Conservancy

*Publication\_Date:* 2002

*Title:* Lake Wales Ridge Vegetation Mapping

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2000

*Ending\_Date:* 2002

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Lake Wales Ridge Vegetation Mapping

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Archbold Biological Station

*Publication\_Date:* 1984

*Title:* Archbold Biological Station Vegetation Map

*Other\_Citation\_Details:*

Abrahamson, W. G., A. F. Johnson, J. N. Layne, and P. A. Peroni. 1984. Vegetation of the Archbold Biological Station, Florida: an example of the southern Lake Wales Ridge. Florida Scientist 47:209-250.

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1984

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Archbold Biological Station Vegetation Map

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Hurricane Research Center at Florida International University

*Publication\_Date:* 2009

*Title:* Big Pine Key Land Cover

*Other\_Citation\_Details:*

Project Name: Prediction of Pine Forest Changes in the Florida Keys Due to Sea Level Rise

Principal Investigators: Keqi Zhang and Michael Ross

Data provided by Danielle Ogurcak, FIU

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2009

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Big Pine Key Land Cover

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Institute for Regional Conservation

*Publication\_Date:* 2009

*Title:* Natural Forest Communities of Miami-Dade County

*Other\_Citation\_Details:* Data provided by Keith Bradley, IRC

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2005

*Ending\_Date:* 2009

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Natural Forest Communities of Miami-Dade County

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Florida Natural Areas Inventory

*Publication\_Date:* 2010

*Title:* Upland Glades Occurrence Map

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2007

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Upland Glades Occurrence Map

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Florida Park Service

*Publication\_Date:* 2009

*Title:* Florida Park Service Natural Community Maps

*Other\_Citation\_Details:* Data provided by Brady Harrison, FPS

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 1997

*Ending\_Date:* 2009

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Florida Park Service Natural Community Maps

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Florida Natural Areas Inventory

*Publication\_Date:* 2010

*Title:* Florida Forever Projects Field Assessment Maps

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2001

*Ending\_Date:* 2018

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Florida Forever Projects Field Assessment  
Maps - 2019

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* on Schaub, Dynamac Corp. at KSC

*Publication\_Date:* 2003

*Title:* Kennedy Space Center Land Cover 2003

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2003

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Kennedy Space Center Land Cover

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* St. Johns River Water Management District

*Publication\_Date:* 2009

*Title:*

St. Johns River Water Management District Natural Community Maps

*Other\_Citation\_Details:* Data provided by J. B. Miller, SJRWMD

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2004

*Ending\_Date:* 2009

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:*

St. Johns River Water Management District Natural Community Maps

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* The Nature Conservancy

*Publication\_Date:* 2007

*Title:* Nature Conservancy Preserves Vegetation Maps

*Other\_Citation\_Details:* Data provided by Kathy Freeman, TNC and David Printiss, TNC

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 1999

*Ending\_Date:* 2007

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Nature Conservancy Preserves Vegetation Maps

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Palm Beach County, Environmental Resource Management

*Publication\_Date:* 2007

*Title:* Palm Beach County Natural Areas Land cover

*Other\_Citation\_Details:* Data provided by Matt King, PBC

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 2003

*Ending\_Date:* 2007

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Palm Beach County Natural Areas Land cover

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Nokuse Plantation

*Publication\_Date:* 2009

*Title:* Nokuse Plantation Land Cover

*Other\_Citation\_Details:*

Data provided by Matt Aresco, Nokuse Plantation Note: Only scrub and sandhill polygons were provided; comprehensive land cover was not complete at time of Cooperative Land Cover Map publication.

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2009

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Nokuse Plantation Land Cover

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Charlotte County

*Publication\_Date:* Unknown

*Title:* Charlotte County Parks Vegetation Data

*Other\_Citation\_Details:* Data provided by Bryon Catlin, Charlotte Co

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

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*Single\_Date/Time:*

*Calendar\_Date:* unknown  
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*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:*  
University of Georgia; South Florida Natural Resources Center of Everglades  
National Park  
*Publication\_Date:* 1999  
*Title:* Everglades Vegetation  
*Type\_of\_Source\_Media:* vector digital data  
*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
*Single\_Date/Time:*  
*Calendar\_Date:* 1999  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* Everglades Vegetation  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* Florida Natural Areas Inventory  
*Publication\_Date:* 2010  
*Title:* Historical Natural Community Mapping Projects  
*Type\_of\_Source\_Media:* vector digital data  
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*Range\_of\_Dates/Times:*  
*Beginning\_Date:* 2004  
*Ending\_Date:* 2010  
*Source\_Currentness\_Reference:* ground condition  
*Source\_Citation\_Abbreviation:* Historical Natural Community Mapping  
Projects  
*Source\_Contribution:* Spatial and attribute information  
*Source\_Information:*  
*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* U. S. Forest Service  
*Publication\_Date:* 2010

*Title:* Ocala National Forest Stands Map

*Other\_Citation\_Details:* Data provided by Jason Drake, USFS

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* unknown

*Ending\_Date:* 2010

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Ocala National Forest Stands Map

*Source\_Contribution:* Spatial and attribute information

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Florida Fish and Wildlife Conservation Commission

*Publication\_Date:* 2003

*Title:* Florida Vegetation and Land Cover

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2003

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Florida Vegetation and Land Cover

*Source\_Contribution:* Used as ancillary data

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* David Breininger

*Publication\_Date:* 1999

*Title:* David Breininger Scrub Polygons

*Other\_Citation\_Details:*

Breininger, D. R. 2003. Biological criteria for the recovery of Florida Scrub-Jay populations on public lands in Brevard County and Indian River County. Final Report to Endangered Species Office, U. S. Fish and Wildlife Service, Jacksonville, FL, USA. <<http://northflorida.fws.gov/Scrub-Jays/breininger-2003-report.htm>>. Accessed 14 Jul 2010.

Breininger, D. R., B. Toland, D. M. Oddy, and M. L. Legare. 2006. Landcover characterizations and Florida Scrub-Jay (*Aphelocoma coerulescens*) population dynamics. *Biological Conservation* 128:169-181.

*Type\_of\_Source\_Media:* vector digital data

*Source\_Time\_Period\_of\_Content:*  
*Time\_Period\_Information:*  
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*Beginning\_Date:* 1994  
*Ending\_Date:* 1999  
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*Source\_Contribution:* Used as ancillary data  
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*Source\_Citation:*  
*Citation\_Information:*  
*Originator:* FWC/Florida Wildlife Research Institute  
*Publication\_Date:* 1991  
*Title:* Florida Keys Advanced Identification of Wetlands Land Cover  
*Type\_of\_Source\_Media:* vector digital data  
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*Source\_Contribution:* Used as ancillary data  
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*Citation\_Information:*  
*Originator:* Earth Balance and Steve Sauers Environmental Management  
*Publication\_Date:* 2007  
*Title:* Sarasota County Apoxsee Habitat Layer  
*Other\_Citation\_Details:*  
Clark, J. and S. Sauers. 2008. Sarasota County Native Habitat Mapping and Risk Assessment. Sarasota County Natural Resources, Sarasota, Florida, USA.  
Data provided by Sarasota County  
*Type\_of\_Source\_Media:* vector digital data  
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*Source\_Citation:*

*Citation\_Information:*

*Originator:* QuestEcology

*Publication\_Date:* 2005

*Title:* Scrub Soils for Five Southwest Counties

*Other\_Citation\_Details:*

Gordon, D. 2005. Distribution of the Florida Scrub-Jay (*Aphelocoma coerulescens*) within the Hillsborough/Manatee Metapopulation. Report to U.S. Fish and Wildlife Service. U.S. Fish and Wildlife Service, Jacksonville, Florida, USA.

Data provided by David Gordon, QuestEcology

*Type\_of\_Source\_Media:* paper

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2005

*Source\_Currentness\_Reference:* ground condition

*Source\_Citation\_Abbreviation:* Scrub Soils for Five Southwest Counties

*Source\_Contribution:* Used as ancillary data

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*Citation\_Information:*

*Originator:* Lake County

*Publication\_Date:* 2009

*Title:* Lake County Scrub-Jay Habitat Survey

*Other\_Citation\_Details:* Data provided by Lauren Brothers, Lake County

*Type\_of\_Source\_Media:* vector digital data

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*Source\_Citation\_Abbreviation:* Lake County Scrub-Jay Habitat Survey

*Source\_Contribution:* Used as ancillary data

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*Originator:* Florida Natural Areas Inventory

*Publication\_Date:* 1993

*Title:* Natural Communities of Camp Blanding Military Reservation

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Military Reservation  
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*Title:* Tate's Hell Historic Vegetation  
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*Citation\_Information:*  
*Originator:* Archbold Biological Station  
*Publication\_Date:* 1993  
*Title:* Statewide Scrub-Jay Habitat  
*Other\_Citation\_Details:*  
Fitzpatrick, J. W., B. Pranty, and B. Stith. 1994. Florida scrub-jay statewide map, 1992-1993. U.S. Fish and Wildlife Service Report, Cooperative Agreement no. 14-16-0004-91-950. U.S. Fish and Wildlife Service, Washington, D.C., USA.  
*Type\_of\_Source\_Media:* paper  
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*Beginning\_Date:* 1992  
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*Source\_Citation\_Abbreviation:* Statewide Scrub-Jay Habitat  
*Source\_Contribution:* Used as ancillary data  
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*Source\_Information:*  
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*Source\_Currentness\_Reference:* 2019  
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*Source\_Information:*  
*Type\_of\_Source\_Media:* vector digital data  
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*Source\_Currentness\_Reference:* 2019  
*Source\_Citation\_Abbreviation:* Escribano Point Wildlife Management Area  
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*Source\_Citation\_Abbreviation:* Salt Lake Wildlife Management Area  
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*Source\_Citation\_Abbreviation:* Belmore State Forest  
*Source\_Contribution:* Spatial and attribute information  
*Process\_Step:*  
*Process\_Description:*  
The Cooperative Land Cover map integrates data from multiple sources.

All sources were crosswalked into the Florida Land Cover Classification System (Kawula 2014)

All source datasets were received and processed as vector data. A set of standard geoprocessing and topology operations were employed in ArcGIS 9.3, 10.1 to ensure no overlapping features within or among datasets. All data were projected into the Florida Albers custom coordinate system with NAD 1983 HARN datum. A minimum mapping unit of 0.5 acres was applied, and each polygon < 0.5 acres was dissolved into its largest neighboring polygon except for scrub, pine rockland and upland glade polygons for which we applied a minimum mapping unit of 0.1 acres. Finally, lines between neighboring polygons with the same classification were dissolved. Based on the review of

each dataset, other modifications were made as described in: Florida Natural Areas Inventory, 2010. Development of a Cooperative Land Cover Map: Final Report (available from FNAI upon request).

Explanation of confidence categories:

Datasets were evaluated based on metadata, discussions with data providers and a general review of the spatial accuracy and classification. Based on this review, a confidence category was assigned to each dataset that indicated how or if the dataset, or certain classes within the dataset, would be integrated into the final land cover map. A confidence category of 1 indicates the highest level of confidence; these data spatially superseded all other intersecting sources. Category 2 data took precedence over statewide datasets (FLUCCS, FLVEG) but did not supersede category 1. Category 3 data were used with review and revision. Category 4 data were used to identify additional areas for aerial photo review and help interpret classification during the review process; these data, however, were not directly integrated into the final map.

*Process\_Date:* 2010

*Process\_Step:*

*Process\_Description:*

Aerial Photography Review of Focal Communities:

Areas within existing source data in categories 1 through 3 (non-ancillary sources) were excluded from the set of polygons to be reviewed. Scrub, scrubby flatwoods, sandhill, dry prairie and mesic flatwoods (in SWF and SF only) were reviewed simultaneously as a single set of review polygons. Review polygons as well as proximal areas were inspected with the latest high resolution aerial photography (2006 - 2009) and other ancillary data sources including aerial photography from 2004, 1999 and 1995, topographic maps, county soils maps and other land cover datasets. Areas were reviewed at a scale of 1:5000 with a minimum mapping unit of 0.5 acres with exception to include smaller polygons for scrub and pine rockland. Polygons were spatially edited and new polygons were delineated where necessary to identify focal communities and then assigned the polygon a land cover type. Polygons were deleted from the set of review polygons that did not represent priority communities and were otherwise correctly classified. A land cover type was assigned to polygons classified as FLUCCS Coastal Scrub, Xeric Oak, Sand Pine, or Longleaf Pine - Xeric Oak; in addition almost all review polygons in the SWF and SF districts were assigned a land cover type. Any deleted polygon will default to its FLUCCS class in the final land cover map.

FNAI biologists familiar with the focal communities both on the ground and through aerial photo interpretation performed the initial polygon inspections. A second reviewer then re-inspected the polygons that were assigned as one of the focal communities. A locations were checked from the FNAI element

occurrence database that reference scrub, scrubby flatwoods, sandhill or dry prairie.

Areas were identified that appeared to be functioning as viable natural communities. Areas that were historically scrub or sandhill but are now disturbed so that they likely no longer support their characteristic ecological elements or that have succeeded to another natural community type were excluded or classified as another land cover type. Many former sandhills were reclassified as successional hardwood forest. Pine plantation was reclassified as scrub or sandhill where it appeared to function ecologically as a natural community. This was especially true of planted sand pine scrub which can tolerate a high degree of disturbance. Aerial photographs from 1995 and 1999 were examined to help determine the level of past ground disturbance. Small patches within residential areas were not included, although if there appeared to be functional large patches within low density or rural residential areas we included them. Only obvious patches of scrubby flatwoods were mapped. This community was sometimes difficult to distinguish from scrub and we did not follow strict criteria for distinguishing the two. For dry prairie we strictly followed the FNAI definition of treeless areas of low shrubs and grasses within the buffered historic dry prairie extent. Many prairie-like areas are pine flatwoods in which trees have been removed. To determine dry prairie from flatwoods we considered geographic position, shrub patterns, proximity of wetlands and overall landscape context.

*Process\_Date:* 2010

*Process\_Step:*

*Process\_Description:*

Assemblage of Data Sources into Final Map:

The data was separated into 3 components for assembly into statewide land cover: 1) Local Source data, which consisted of all local sources with confidence category 1 through 3; 2) FNAI Review data, which consisted of all datasets that were inspected and classified through aerial photo review; and 3) FLUCCS. The SWFWMD published a new version of FLUCCS based on 2008 photography in spring 2010. Although we used 2007 FLUCCS for aerial photo review and comparative analyses in that district, we incorporated the 2008 data in the final land cover map. We converted all datasets into 15 m ESRI grids and combined them based on the following rules: 1) Local Source data with confidence category 1 and 2 superseded FNAI Review data; 2) FNAI Review data superseded Local Source data with confidence category 3; 3) all Local Source 1 through 3 and FNAI Review data superseded FLUCCS.

*Process\_Date:* 2010

*Process\_Step:*

*Process\_Description:*

### Vector Data Review, Editing, and Classification:

The Cooperative Land Cover Map (CLC) served as the foundation dataset for revision efforts. Polygon vector data was compared against high resolution Digital Ortho Quarter Quads (DOQQ) and Google Earth imagery. Google Earth's imagery was the most effective imagery available for visual data editing, due to its clarity, resolution, loading speed and data age. Vector data of individual land cover classes were converted to \*.KML format for use in Google Earth.

Errors identified through visual review were manually corrected. The most common errors encountered included incorrect boundaries, mislabeling of classes, hard edges between classes, and features containing multiple classes.

Sliver polygons were eliminated based on two criteria:

#### 1) Area 2) Perimeter to Area Ratio

1) Polygons with an area greater than or equal to 110 square meters were selected and dissolved into the largest adjacent polygon utilizing the Eliminate tool. 110 square meters was selected because the final raster will have a 10 meter cell size (100 square meters per cell) and the additional 10 square meters help to further remove sliver polygons that would require significant time to remove manually during the editing process.

2) Polygons with large ratios are less likely to accurately describe a significant landcover at the statewide scale. Therefore, polygons with a perimeter to edge ratio greater than or equal to 0.5 were eliminated into adjacent polygons sharing the longest edge.

*Process\_Date:* Not complete

*Process\_Step:*

*Process\_Description:*

### Remote Sensing Classification:

Once gross spatial and thematic errors were corrected in the vector data, Erdas Imagine was employed to perform a series of unsupervised and supervised classifications of each SPOT image with the corrected polygon data as a guide.

*Process\_Date:* Not complete

*Process\_Step:*

*Process\_Description:*

### Edge Matching:

Following map classification, we conducted further visual inspection of classified areas for consistency, errors, and edge matching between assembled data sets.

*Process\_Date:* 2014

*Process\_Step:*

*Process\_Description:*

**Topology:**

Rules were established to ensure that: 1) all areas within the mapping area (i.e. Florida) are covered by a land class (polygon); and 2) that there is only one land class (polygon) defining a given area. Two topological rules were created to ensure these requirements are met:

1) Land Classes Must Not Have Gaps 2) Land Classes Must Not Overlap  
For errors that result from “Land Classes Must Not Have Gaps”, a polygon was created to fill that gap. This new polygon created NULL information in the attributes and must either: 1) be merged with an appropriate adjacent polygon sharing the same land classification characteristics or 2) be given a land classification indicating its uniqueness in comparison with adjacent polygons. For errors that resulted from “Land Classes Must Not Overlap”, areas were identified that have more than one polygon. The overlapping area was merged with the most appropriate land class, thereby removing the overlap.

*Process\_Date:* 2014

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Raster

*Raster\_Object\_Information:*

*Raster\_Object\_Type:* Pixel

*Row\_Count:* 73603

*Column\_Count:* 74694

*Vertical\_Count:* 1

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Planar:*

*Planar\_Coordinate\_Information:*

*Planar\_Coordinate\_Encoding\_Method:* coordinate pair

*Coordinate\_Representation:*

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*Ordinate\_Resolution:* 0.000000004429812072714868

*Planar\_Distance\_Units:* meter

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* D North American 1983 HARN

*Ellipsoid\_Name:* GRS 1980

*Semi-major\_Axis:* 6378137.0

*Denominator\_of\_Flattening\_Ratio:* 298.257222101

*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* VAT\_CLC\_v3\_4\_SITE

*Entity\_Type\_Definition:*

This data set represents the updated land use and land cover for the state of Florida.

*Entity\_Type\_Definition\_Source:* FWC, FNAI

*Attribute:*

*Attribute\_Label:* OBJECTID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Value

*Attribute\_Definition:*

Corresponds to the Florida Land Cover Classification System class code

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

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*Attribute\_Label:* Count

*Attribute\_Definition:* Cell Values

*Attribute\_Definition\_Source:* ESRI

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*Attribute\_Label:* Area\_Acres

*Attribute\_Definition:* Spatial calculations

*Attribute\_Definition\_Source:* ESRI

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*Unrepresentable\_Domain:* Calculated value

*Attribute:*

*Attribute\_Label:* SITE

*Attribute\_Definition:* Florida Land Cover Classification System class code

*Attribute\_Definition\_Source:* FWC/FNAI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Integer

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*Attribute\_Definition:* Florida Land Cover Classification System class

*Attribute\_Definition\_Source:* FNAI/FWC

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Text

*Attribute:*

*Attribute\_Label:* Legend

*Attribute\_Definition:*

Trailing zeros were added to the SITE classification value to standardize class length for map symbology purposes.

*Attribute\_Definition\_Source:* FWC

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Integer

*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* GIS Librarian

*Contact\_Organization:*

Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

*Contact\_Position:* GIS Data Librarian

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* Fish and Wildlife Research Institute

*Address:* 620 S. Meridian St 5B6

*City:* Tallahassee

*State\_or\_Province:* Florida

*Postal\_Code:* 32399

*Contact\_Voice\_Telephone:* 850-488-0588

*Contact\_Facsimile\_Telephone:* 850-410-5269

*Contact\_Electronic\_Mail\_Address:* GISRequests@MyFWC.com

*Distribution\_Liability:*

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savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Option:*

*Online\_Option:*

*Computer\_Contact\_Information:*

*Network\_Address:*

*Network\_Resource\_Name:* <<http://myfwc.com/research>>

*Fees:*

None. However, persons or organizations requesting information must provide transfer media if FTP is not available and must pay express shipping costs if express shipping is required.

*Ordering\_Instructions:*

Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

*Turnaround:*

Usually within 10 business days, although, complex requests may take longer

*Custom\_Order\_Process:* Contact GIS Librarian

*Technical\_Prerequisites:* None

*Metadata\_Reference\_Information:*

*Metadata\_Date:* 202001

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:*

Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

*Contact\_Person:* GIS Librarian

*Contact\_Position:* GIS Data Librarian

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* Fish and Wildlife Research Institute

*Address:* 620 S. Meridian St 5B6

*City:* Tallahassee

*State\_or\_Province:* FL

*Postal\_Code:* 32399

*Contact\_Voice\_Telephone:* 850-488-0588

*Contact\_Facsimile\_Telephone:* 850-410-5269

*Contact\_Electronic\_Mail\_Address:* GISRequests@MyFWC.com

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial

Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time