

Longleaf Pine Occurrence and Condition v3 Attributes

The LPE_Occurrence_Status_v3 is a polygon feature class of confirmed longleaf pine ecosystems, potential longleaf sites where occurrence status remains unknown, and remaining pinelands that are known not to be longleaf sites. These data were developed as part of the Longleaf Pine Ecosystem Geodatabase (LPEGDB) project and represent potential and known longleaf pine ecosystem sites in Florida. The purpose of this project is to provide data on the distribution and condition of longleaf pine ecosystems in Florida.

Attributes

Field: LPEGDB_ID_v3 (Alias: LPEGDB_ID_v3)

Definition: Unique identification number for polygon in the database. Gaps are allowed in number sequence. ID numbers are updated with each version of the LPEGDB as polygons are edited.

Field: LPE_Occurrence (Alias: LPE Occurrence)

Definition: Occurrence status of longleaf pine ecosystem within the polygon.

Field Values	Definition
Yes	Occurrence of longleaf pine ecosystem has been confirmed by empirical evidence from the data source.
Unknown	Occurrence of longleaf pine ecosystem is neither confirmed nor unconfirmed.
No	Absence of longleaf pine ecosystem is indicated by empirical evidence from the data source(s).

Field: CONF_TIER (Alias: Confidence Tier)

Definition: Confidence Tier indicates the strength of evidence for occurrence of longleaf pine ecosystem. Its primary use is to help target priorities for future surveys but also to enable informative summaries of current knowledge.

Field Values	Definition
1A	Occurrence of longleaf pine ecosystem has been confirmed by empirical evidence from the data source but ecological data are not available.
1	Occurrence of longleaf pine ecosystem has been confirmed by empirical evidence from the data source but ecological condition data are not available.
2	Occurrence of longleaf pine ecosystem is documented within the polygon by a secondary source; or longleaf presumed from RCW record
3	Occurrence of longleaf pine ecosystem is neither confirmed nor unconfirmed, but is expected based on land cover classification of Sandhill or Upland pine; FFS land records with some indication of longleaf occurrence (but not confirmed); or overlap with areas identified as longleaf by forest cover/vegetation models (Comprehensive Statewide Forest Inventory Analysis Study or Florida Fire Risk Assessment Canopy Inventory Project).
4	Occurrence of longleaf pine ecosystem is neither confirmed nor unconfirmed, and land cover a type other than Sandhill or Upland pine.
0	Absence of longleaf pine ecosystem is indicated by empirical evidence from the data source(s).

Field: CONF_DESC (Alias: CONF Description)

Definition: Confidence Tier Description is a brief description of the Confidence Tier codes

Field Values	Definition
Longleaf pine confirmed and ecological condition data available (3 or more attributes)	Brief description of Confidence Tier 1A. See metadata for CONF_TIER for detailed description.
Longleaf pine confirmed; ecological condition data not available	Brief description of Confidence Tier 1. See metadata for CONF_TIER for detailed description.
Longleaf pine documented in secondary source; or longleaf presumed from RCW record	Brief description of Confidence Tier 2. See metadata for CONF_TIER for detailed description.
Longleaf occurrence unknown but expected	Brief description of Confidence Tier 3. See metadata for CONF_TIER for detailed description.
Longleaf occurrence unknown but possible	Brief description of Confidence Tier 4. See metadata for CONF_TIER for detailed description.
Longleaf pine absence indicated by field data or stand description	Brief description of Confidence Tier 0. See metadata for CONF_TIER for detailed description.

Field: DATA_SRC (Alias: Data Source v.3)

Definition: Source(s) of information used to determine the boundary, occurrence status, and/or ecological condition of longleaf pine ecosystems. For multiple sources, boundary and/or occurrence sources are typically listed first followed by condition sources although information may overlap among all sources.

Source Abbreviations	Description
Eglin AFB	Stands and plot data from Eglin Air Force Base
FFS Compiled Longleaf Stands	Florida Forest Service effort to collect and mine information on longleaf pine stands from various sources.
FFS State Lands Inventory	Florida Forest Service Forestry Data Model: stand boundaries and statistics for State Forests.
Florida Park Service	Natural Community boundaries and attributes for Florida State Parks
FNAI- Cooperative Land Cover v2, v2.3, v3	Indicates use of Cooperative Land Cover (by version) as primary source of information about the polygon; FNAI prefix indicates that decisions about subset of land cover types to include were made by Florida Natural Areas Inventory.
FNAI Compiled Data	Generally refers to Florida Natural Areas Inventory Element Occurrence Database records for rare species and natural communities; data within the database is from multiple sources.
FNAI Field Survey	Generally refers to GPS field surveys conducted for natural community mapping and ecological assessment conducted by Florida Natural Areas Inventory since 2002 for many agencies; also includes field surveys for other purposes that include longleaf pine information.
FWC	Fish and Wildlife Conservation Commission shapefiles for longleaf plantings on lands they manage.
FWC Land-owner Assistance Program	Fish and Wildlife Conservation Commission shapefiles for longleaf plantings on private lands supported by the FWC Land Owner Assistance Program, excluding programs funded by the USDA Natural Resources Conservation Service (NRCS).
LPEGDB Rapid Assessment 2013	Sites assessed by Florida Forest Service County Foresters as part of the 2013 Rapid Assessment phase of the LPEGDB project.
Resource Management Service, LLC	Longleaf stand boundaries within the Coastal Headwaters Longleaf Forest Florida Forever Project boundary provided by Resource Management Service, LLC.
St. Johns River WMD	Stands, plot data, and fire management unit data provided by St. Johns River Water Management District on lands they manage.
The Nature Conservancy	Information on longleaf occurrence for Rock Hill Preserve and Apalachicola Bluffs and Ravines Preserve provided via personal communication with the Northwest Florida Program Director of The Nature Conservancy.
USFS Stands, USFS ECM	Stand data and Ecological Condition Model (ECM) data provided by U. S. Forest Service for National Forests in Florida
USFS RCW Data	Red-cockaded woodpecker cavity tree data provided by U. S. Forest Service for Apalachicola NF.

Field: COUNTY (Alias: County)

Definition: Name of Florida county

Field: POLY_ACRES (Alias: POLY Acres)

Definition: Acreage of polygon calculated in GIS

Field: STAND_TYPE (Alias: Stand Type)

Definition: Type of stand, whether natural or planted. In this case stand may refer to a stand-level polygon typical of forest management agencies or a land cover-based polygon.

Field Values	Definition
Natural-1	Stand type is designated as natural by the original source, typical of stand-level data.
Planted-1	Stand type is designated as planted by the original source, typical of stand-level data.
Natural-2	Stand type is a natural forested land cover type (except Upland Coniferous which FNAI considers to be primarily semi-natural) based on the Major Land Cover Type.
Planted-2	Stand type is coniferous plantation or wet coniferous plantations based on the Major Land Cover Type.
Undetermined	Information was insufficient to determine whether stand is natural or planted.

Field: MANAME (Alias: Managed Area Name)

Definition: Official name of the Managed Area (conservation land), as determined by the managing agency.

Field: OwnerType (Alias: Owner Type)

Definition: Owner type

Field Values	Definition
Public	Site is within FNAI Conservation Lands and owner is designated as federal, state or local public entity.
Private	Site is not included within the FNAI Conservation Lands database and assumed to be privately owned; or site is within FNAI Conservation Lands but owner is designated as private.

Field: MANAGING_A (Alias: Managing Agency)

Definition: Name of the lead managing agency for the Managed Area (conservation land). Lands not within the FNAI Conservation Lands database have NULL values.

Field: MA_GROUP (Alias: Man Agency Group)

Definition: Managing agency (or private manager) category.

Field Values	Description
Federal Conservation Lands	Managed for conservation purposes by the federal government.
State Conservation Lands	Managed for conservation purposes by state government.
Local Conservation Lands	Managed for conservation purposes by local government (counties and municipalities).
Private Conservation Lands	Managed for conservation purposes by a private individual or organization.
Permanent Conservation Easements	Private land managed for conservation purposes as proscribed by permanent conservation easement; easements may be held and monitored by public agency or private organization.
Other Private Lands	Managed by a private individual or entity without conservation designation.

Field: Major_LC (Alias: Major Land Cover Type)

Definition: Land cover type making up majority of the polygon determined by overlap calculation of LPE polygon with Florida Cooperative Land Cover Map (CLC). See LC_Source for version of CLC used. See LPEGDB v.3 Summary Report for a description of land cover assignment to LPE polygon.

Field: LC_Source (Alias: Land Cover Source)

Definition: Source used to assign land cover type in Major_LC field.

Field Values	Description
CLC v2.3	Cooperative Land Cover Map v2.3, published Dec 2012 by FNAI: http://fnai.org/LandCover.cfm
CLC v.3	Cooperative Land Cover Map v.3, published Oct 2014 by FWC: http://myfwc.com/research/gis/applications/articles/Cooperative-Land-Cover
CLC v2.3 & 3	Cooperative Land Cover Map version 2.3 and 3 were used in combination to assign land cover type; combination primarily applies to wet coniferous plantations where CLC 2.3 classified polygon as Coniferous Plantations and v.3 classified polygon as Cultural Palustrine.
FNAI	Land cover type was assigned by FNAI based on current aerial photo interpretation or other information determined to be more accurate than CLC v2.3 or v.3. Review by FNAI was opportunistic during the course of data review for other purposes.

Field: LPE_PT_ID (Alias: LPE Condition Pt ID)

Definition: Unique identifier for FNAI ecological condition point informing that polygon. May be linked to feature class FNAI_LPE_Condition_Data_v3.

LPE_Condition_by_Mgmt_Class_v3 Attributes

The LPE_Condition_to_Mgmt_Class_v3 is a polygon feature class of confirmed longleaf sites with ecological condition data from multiple sources that has been crosswalked into three management levels described in the Range-wide Conservation Plan for Longleaf Pine (America's Longleaf 2010): acres to maintain, acres to improve, and acres to restore.

Attributes

The LPE_Condition_to_Mgmt_Class_v3 feature class includes all of the attributes described above for LPE_Occurrence_Status_v3. The additional ecological condition attributes in LPE_Condition_to_Mgmt_Class_v3 are described below.

Field: LLP_DOM_mc

Definition: Longleaf Pine Dominance. Indicates the presence and dominance of longleaf pine in the canopy. Field data were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: Dominant
I	Improve: Codominant to Rare
R	Restore: Absent from canopy

Field: LLP_AGE_mc

Definition: Longleaf Pine Age Structure. Indicates the age structure of longleaf pine in the canopy and sub-canopy. Field data were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: Multiple (2+) age classes
I	Improve: One age class
R	Restore: Absent

Field: OLDER_LL_P_mc

Definition: Older-mature Characteristics. Indicates the presence of flat-topped trees (more than one) within the stand. *This is a new field for v.3. No data have been crosswalked for version 3.

Field Values	Definition
M	Maintain: Yes
I	Improve: Not evident
R	Restore: N/A

Field: LLP_EARLY_mc

Definition: Longleaf Pine Early Regeneration: Estimated cover of longleaf pine regeneration that is <6' tall. Field values crosswalked to management classes (mc). *This is a new field for v.3. No data have been crosswalked for version 3.

Field Values	Definition
M	Maintain: 5 - 15%
I	Improve: <5 or >15%
R	Restore: Not evident

Field: LLP_ADVANC_mc

Definition: Longleaf Pine Advanced Regeneration: Estimated cover of longleaf pine regeneration that is 6-16' tall. Field values crosswalked to management classes (mc). *This is a new field for v.3. No data have been crosswalked for version 3.

Field Values	Definition
M	Maintain: 5 - 15%
I	Improve: <5 or >15%
R	Restore: Not evident

Field: LLP_BA_mc

Definition: Longleaf Pine Basal Area. Estimated basal area in square feet per acre of longleaf pine for the entire stand. Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: 10 - 70
I	Improve: <10 or >70
R	Restore: N/A

Field: FIREHW_COV_mc

Definition: Fire Tolerant Hardwood Cover. Percentage of the ground within the stand covered by the general extent of turkey oak, sand post oak, bluejack oak, blackjack oak, southern red oak, and dogwood within the midstory and canopy (any stem greater than 16 feet tall) Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: <=15%
I	Improve: 16 – 55%
R	Restore: >55%

Field: OTH_HW_COV_mc

Definition: Other Hardwood Cover. Percentage of the ground within the stand covered by the general extent of hardwood species excluding turkey oak, sand post oak, bluejack oak, blackjack oak, southern red oak, and dogwood within the midstory and canopy (any stem greater than 16 feet tall); typical species are laurel oak, water oak, sweetgum, live oak, sand live oak. Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: <=5%
I	Improve: 6 – 35%
R	Restore: >35%

Field: OTHPINE_COV_mc

Definition: Other Pine Cover. Percentage of the ground within the stand covered by the general extent of pine species other than LLP within the midstory and canopy (any stem greater than 16 feet tall). Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: <=5%
I	Improve: 6 – 35%
R	Restore: >35%

Field: MIDST_COV_mc

Definition: Midstory Cover. Percent cover of midstory woody-stemmed plants (including vines and pines) from 6 to 16 feet tall. Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: <=20%
I	Improve: 20 – 75%
R	Restore: >75%

Field: SHRUB_COV_mc

Definition: Shrub Cover. Percentage of the ground within the plot covered by the general extent of woody plants excluding vines and pines from the ground to 16 feet tall. Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: <=30%
I	Improve: 30 – 75%
R	Restore: >75%

Field: AVSHRUB_HT_mc

Definition: Average Shrub Height. Average height of woody plants excluding vines and pines from the ground to 16 feet tall. Field values were crosswalked to management classes (mc). *This is a new field for v.3. No data have been crosswalked for version 3.

Field Values	Definition
M	Maintain: <=3 ft
I	Improve: 3 – 6 ft
R	Restore: >6 ft

Field: PYROGR_COV_mc

Definition: Pyrogenic Grass Cover. Percent cover of native perennial graminoids that are maintained by periodic fire. Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: >20%
I	Improve: 1 – 20%
R	Restore: <1%

Field: HERB_COV_mc

Definition: Herbaceous Cover. Percent cover of all native non-woody, soft-tissued plants regardless of height, including non-woody vines, legumes, and graminoids (grasses, sedges, rushes); does not include non-native pasture grasses. Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: >35%
I	Improve: 10 – 35%
R	Restore: <10%

Field: FIRE_EVID_mc

Definition: Fire Evidence. Describes the general time period since last fire as determined by visual evidence within the stand (e.g. fire scars on trees, standing blackened shrubs). Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: <=5 yrs
I	Improve: >5 yrs
R	Restore: Not evident

Field: INVPL_COV_mc

Definition: Invasive Plant Cover. Percent cover of invasive exotic plants within the stand; includes only FLEPPC Category I and II listed species. *This is a new field for v.3. No data have been crosswalked for version 3.

Field Values	Definition
M	Maintain: <1%
I	Improve: 1 – 10%
R	Restore: >10%

Field: COND_RANK_mc

Definition: Condition Rank. Describes the ecological condition relative to a natural system (natural vegetative plant community). Field values were crosswalked to management classes (mc).

Field Values	Definition
M	Maintain: Excellent or Good
I	Improve: Fair
R	Restore: Poor or Very Poor.