Landscape v3.1-Skylands Region (NJ)

Summary
The Landscape Project was designed to provide users with peer-reviewed, scientifically sound information that transparently documents threatened and endangered species habitat. Landscape Project data are easily accessible and can be integrated with the planning, protection and land management programs of non-government organizations and private landowners and at every level of government-federal, state, county and municipal. Landscape maps and overlays provide a basis for proactive planning, such as the development of local habitat protection ordinances, zoning to protect critical wildlife areas, management guidelines for imperiled species conservation on public and private lands, and land acquisition projects. Most importantly, the information that is readily available in the Landscape Project can be used for planning purposes before any actions such as proposed development, resource extraction (e.g. timber harvests) or conservation measures occur. The maps help increase predictability for local planners, environmental commissions, and developers and help facilitate local land use decisions that appropriately site and balance development and habitat protection. The Landscape Project maps allow the regulated public to anticipate potential environmental regulation in an area and provide some level of assurance regarding areas where endangered, threatened or species of special concern are not likely to occur, affording predictability to the application and development process. Thus, Landscape Project maps can be used proactively by regulators, planners and the regulated public in order to minimize conflict and protect species. This minimizes time and money spent attempting to resolve after-the- fact endangered and threatened species issues.

Description
The Landscape Project combines documented wildlife locations with NJDEP aerial photo-based 2007 Land Use/Land Cover (LULC) to delineate imperiled and special concern species habitat within New Jersey. Many species occurrence locations cannot be published because they may represent nest sites, roost sites, dens and other sites used by species that are vulnerable to human disturbance and, in some cases, susceptible to illegal collection. At the same time, wildlife moves, as individual animals use various habitat features within the landscape to fulfill their foraging, sheltering and breeding needs. Therefore, protecting individual occurrences or the area used by one individual is generally not sufficient to protect the local population. Landscape Project maps address these issues by displaying habitat patches that animals use and that are required to support local populations, rather than pinpointing exact locations of the most sensitive wildlife sites or simply protecting points where species happened to be observed at one point in time. Prior to combining species occurrence data with LULC data to form the habitat patches that make up the Species-Based Habitat layer, each dataset was generated according to a specific data development process.

Credits
There are no credits for this item.

Use limitations
This data set is a product of the Landscape Project, a pro-active, ecosystem-level approach to the long-term protection of imperiled and priority species and their important habitats in New Jersey. New Jersey Department of Environmental Protection (NJDEP) Data Distribution Agreement I. Description of Data to be Provided. The data provided herein are distributed subject to the following conditions and restrictions:

SUBJECT DATA LAYERS For all data contained herein, NJDEP makes no representations of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied with respect to the digital data layers furnished hereunder. NJDEP assumes no responsibility to maintain them in any manner or form. II. Terms of Agreement 1. Digital data received from the NJDEP are to be used solely for internal purposes in the conduct of daily affairs. 2. The data are provided, as is, without warranty of any kind and the user is responsible for understanding the accuracy limitations of all digital data layers provided herein, as documented in the accompanying cross-reference files (see Section 1.14 CROSS-REFERENCE). Any reproduction or manipulation of the above data must ensure that the coordinate reference system remains intact. 3. Digital data received from the NJDEP may not be reproduced or redistributed for use by anyone without first obtaining written permission from the NJDEP. This clause is not intended to restrict distribution of printed mapped information produced from the digital data. 4. Any maps, publications, reports, or other documents produced as a result of this project that utilize NJDEP digital data will credit the NJDEP's Geographic Information System (GIS) and Site Remediation Program as the source of the data with the following credit/disclaimer: "This (map/publication/report) was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized." 5. Users shall require any independent contractor, hired to undertake work that will utilize digital data obtained from the NJDEP, to agree not to use, reproduce, or redistribute NJDEP GIS data for any purpose other than the specified contractual work. All copies of NJDEP GIS data utilized by an independent contractor will be required to be returned to the original user at the close of such contractual work. Users hereby agree to abide by the use and reproduction conditions specified above and agree to hold any independent contractor to the same terms. By using data provided herein, the user acknowledges that terms and conditions have been read and that the user is bound by these criteria.

Extent
There is no extent for this item.

Scale Range
There is no scale range for this item.

ArcGIS Metadata

Citation

TITLE NJDEP Species Based Habitat, Skylands Region (Version 3.1, 20120221)

Resource Details

CREDITS

Resource Constraints

CONSTRAINTS
LIMITATIONS OF USE
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Data Distribution Agreement

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II. Terms of Agreement

1. Digital data received from the NJDEP are to be used solely for internal purposes in the conduct of daily affairs.

2. The data are provided, as is, without warranty of any kind and the user is responsible for understanding the accuracy limitations of all digital data layers provided herein, as documented in the accompanying cross-reference files (see Section 1.14 CROSS- REFERENCE). Any reproduction or manipulation of the above data must ensure that the coordinate reference system remains intact.

3. Digital data received from the NJDEP may not be reproduced or redistributed for use by anyone without first obtaining written permission from the NJDEP. This clause is not intended to restrict distribution of printed mapped information produced from the digital data.

4. Any maps, publications, reports, or other documents produced as a result of this project that utilize NJDEP digital data will credit the NJDEP's Geographic Information System (GIS) and Site Remediation Program as the source of the data with the following credit/disclaimer:

"This (map/publication/report) was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized."

5. Users shall require any independent contractor, hired to undertake work that will utilize digital data obtained from the NJDEP, to agree not to use, reproduce, or redistribute NJDEP GIS data for any purpose other than the specified contractual work. All copies of NJDEP GIS data utilized by an independent contractor will be required to be returned to the original user at the close of such contractual work.

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Spatial Data Properties

ARCGIS FEATURE CLASS PROPERTIES
  FEATURE CLASS NAME skylands_v3_1

    * FEATURE TYPE Simple
    * GEOMETRY TYPE Polygon
    * HAS TOPOLOGY FALSE
    * FEATURE COUNT 212699
    * SPATIAL INDEX FALSE
    * LINEAR REFERENCING FALSE

    Distribution

  DISTRIBUTOR
  TRANSFER OPTIONS
    ONLINE SOURCE
      * DESCRIPTION Downloadable Data

Fields

DETAILS FOR OBJECT skylands_v3_1
    * TYPE Feature Class
    * ROW COUNT 212699
  DEFINITION

Attributes in Landscape Project data.

DEFINITION SOURCE
    NJDEP FISH AND WILDLIFE

FIELD FID
    * ALIAS FID
    * DATA TYPE OID
    * WIDTH 4
    * PRECISION 0
    * SCALE 0
    FIELD DESCRIPTION
        Internal feature number.

    DESCRIPTION SOURCE
        ESRI

    DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

FIELD Shape
    * ALIAS Shape
    * DATA TYPE Geometry
    * WIDTH 0
    * PRECISION 0
    * SCALE 0
    FIELD DESCRIPTION
        Feature geometry.

    DESCRIPTION SOURCE
        ESRI

    DESCRIPTION OF VALUES Coordinates defining the features.

FIELD LINKID
    * ALIAS LINKID
    * DATA TYPE String
    * WIDTH 25
    FIELD DESCRIPTION
        Unique ID used to link polygons with species look-up tables

    DESCRIPTION SOURCE
        NJDEP FISH AND WILDLIFE

    DESCRIPTION OF VALUES Unique ID used to link polygons with species look-up tables

FIELD LNDR
    * ALIAS LNDR
    * DATA TYPE Float
    * WIDTH 19
    * NUMBER OF DECIMALS 11
    FIELD DESCRIPTION
        (RANK) - patches are classified, or valued, based on the status of the species present

    DESCRIPTION SOURCE
        NJDEP FISH AND WILDLIFE

    LIST OF VALUES
        VALUE 1
        DESCRIPTION Rank 1 is assigned to species-specific habitat patches that meet habitat- specific

suitability requirements such as minimum size or core area criteria for endangered, threatened or special concern wildlife species, but that do not intersect with any confirmed occurrences of such species (see Appendix V for descriptions of all habitat-specific suitability requirements). Rank 1 habitat patches without documented occurrences are not necessarily absent of imperiled or special concern species. Patches with a lack of documented occurrences may not have been systematically surveyed. Thus, the Rank 1 designation is used for planning purposes, such as targeting areas for future wildlife surveys.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 2
DESCRIPTION Rank 2 is assigned to species-specific habitat patches containing one or more occurrences of species considered to be species of special concern.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 3
DESCRIPTION Rank 3 is assigned to species-specific patches containing one or more occurrences of State threatened species.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 4
DESCRIPTION Rank 4 is assigned to species-specific habitat patches with one or more occurrences of State endangered species.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 5
DESCRIPTION Rank 5 is assigned to species-specific habitat patches containing one or more occurrences of wildlife listed as endangered and threatened pursuant to the Federal Endangered Species Act of 1973.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD LU07
   * ALIAS LU07
   * DATA TYPE Float
   * WIDTH 19
   * NUMBER OF DECIMALS 11
   FIELD DESCRIPTION
      Numeric 4 digit code representing land use/land cover category, (2007)

   DESCRIPTION SOURCE
      Modified Anderson classification system (see Anderson2007.doc)

   CODED VALUES
      NAME OF CODELIST Modified Anderson land use/land cover classification system
      SOURCE Anderson.doc

FIELD LABEL07
   * ALIAS LABEL07
   * DATA TYPE String
   * WIDTH 65
   FIELD DESCRIPTION
      Description of land use/land cover category, (2007)

   DESCRIPTION SOURCE
      Modified Anderson classification system (see Anderson2007.doc)

   CODED VALUES
      NAME OF CODELIST Modified Anderson land use/land cover classification system
      SOURCE Anderson.doc

FIELD TYPE07
   * ALIAS TYPE07

* DATA TYPE String
* WIDTH 12
FIELD DESCRIPTION
Generalized (Level I) land use/land cover category, (2007)

DESCRIPTION SOURCE
Modified Anderson classification system (see Anderson2007.doc)

CODED VALUES
NAME OF CODELIST Modified Anderson land use/land cover classification system
SOURCE Anderson.doc

FIELD RIPARIAN
* ALIAS RIPARIAN
* DATA TYPE String
* WIDTH 5
FIELD DESCRIPTION
Designates if polygon is inside/outside riparian corridor

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

LIST OF VALUES
VALUE Yes
DESCRIPTION polygon is inside riparian corridor
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE No
DESCRIPTION polygon is outside riparian corridor
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD FOR_CORE
* ALIAS FOR_CORE
* DATA TYPE String
* WIDTH 25
FIELD DESCRIPTION
(FOREST CORE) - Designates if a polygon is inside/outside a patch that meets the 10 hectare core requirement

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

LIST OF VALUES
VALUE 10 Hectare Core Forest
DESCRIPTION a polygon is inside a patch that meets the 10 hectare core requirement
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE No
DESCRIPTION a polygon does not meet the 10 hectare core requirement
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD GRASS_MIN
* ALIAS GRASS_MIN
* DATA TYPE String
* WIDTH 25
FIELD DESCRIPTION
(GRASSLAND MINIMUM SIZE) - Designates if a polygon is inside/outside a patch that meets the 18 hectare minimum size requirement

DESCRIPTION SOURCE
   NJDEP FISH AND WILDLIFE

LIST OF VALUES
   VALUE 18 Hectare Grassland
   DESCRIPTION a polygon is inside a patch that meets the 18 hectare minimum size
   requirement
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

   VALUE No
   DESCRIPTION a polygon does not meet the 18 hectare minimum size requirement
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD REGION
   * ALIAS REGION
   * DATA TYPE String
   * WIDTH 20
   FIELD DESCRIPTION
      The Landscape Region where the geographic centrum of the polygon occurs

   DESCRIPTION SOURCE
      NJDEP FISH AND WILDLIFE

   LIST OF VALUES
      VALUE Coastal
      DESCRIPTION Coastal Landscape Region
      ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

      VALUE Delaware Bay
      DESCRIPTION Delaware Bay Landscape Region
      ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

      VALUE Piedmont Plains
      DESCRIPTION Piedmont/Plains Landscape Region
      ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

      VALUE Pinelands
      DESCRIPTION Pinelands Landscape Region
      ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

      VALUE Skylands
      DESCRIPTION Skylands Landscape Region
      ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

      VALUE Marine
      DESCRIPTION Marine Landscape Region
      ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD VERSION
   * ALIAS VERSION
   * DATA TYPE String
   * WIDTH 15
   FIELD DESCRIPTION
      Number used to track version

   DESCRIPTION SOURCE
      NJDEP FISH AND WILDLIFE

   DESCRIPTION OF VALUES Version 3.1

FIELD CONTACT
* ALIAS CONTACT
* DATA TYPE String
* WIDTH 100
FIELD DESCRIPTION
    Contact info for US Fish and Wildlife Service

DESCRIPTION SOURCE
    NJDEP FISH AND WILDLIFE

DESCRIPTION OF VALUES Contact info for US Fish and Wildlife Service

FIELD ACRES
* ALIAS Acres
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
    acres of feature

DESCRIPTION SOURCE
    ESRI

DESCRIPTION OF VALUES Positive real numbers that are automatically generated.

FIELD HECTARES
* ALIAS Hectares
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
    hectares of feature

DESCRIPTION SOURCE
    ESRI

DESCRIPTION OF VALUES Positive real numbers that are automatically generated.

DETAILS FOR OBJECT species lookup table

DEFINITION
    Attributes in Landscape Project data.

DEFINITION SOURCE
    NJDEP FISH AND WILDLIFE

FIELD OBJECTID
FIELD DESCRIPTION
    Internal feature number.

DESCRIPTION SOURCE
    ESRI

DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

FIELD LINKID

FIELD DESCRIPTION
Unique ID used to link polygons with species look-up tables

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

DESCRIPTION OF VALUES Unique ID used to link polygons with species look-up tables

FIELD COMNAME
FIELD DESCRIPTION
(Common Name)Common name of species present

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

DESCRIPTION OF VALUES Unique Entry

FIELD SCINAME
* **NUMBER OF DECIMALS** 11
FIELD DESCRIPTION
(Scientific Name) Scientific name of species present

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

DESCRIPTION OF VALUES Unique Entry

FIELD FEAT_LABEL
* **NUMBER OF DECIMALS** 11
FIELD DESCRIPTION
(Feature Label) - A label assigned to each occurrence that describes the occurrence type
(e.g., nest, den, dead on road, etc.).

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

DESCRIPTION OF VALUES Unique Entry

FIELD CLASS
FIELD DESCRIPTION
a taxonomic level

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

LIST OF VALUES
VALUE Amphibia
DESCRIPTION Species belongs to the class Amphibia
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE Aves
DESCRIPTION Species belongs to the class Aves
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE Insecta
DESCRIPTION Species belongs to the class Insecta
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE Mammalia

DESCRIPTION Species belongs to the class Mammalia
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE NA
DESCRIPTION Not Applicable
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE Reptilia
DESCRIPTION Species belongs to the class Reptilia
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD RANK
FIELD DESCRIPTION
(RANK) - patches are classified, or "valued," based on the status of the species present

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

LIST OF VALUES

VALUE 1
DESCRIPTION Rank 1 is assigned to species-specific habitat patches that meet habitat- specific suitability requirements such as minimum size or core area criteria for endangered, threatened or special concern wildlife species, but that do not intersect with any confirmed occurrences of such species (see Appendix V for descriptions of all habitat-specific suitability requirements). Rank 1 habitat patches without documented occurrences are not necessarily absent of imperiled or special concern species. Patches with a lack of documented occurrences may not have been systematically surveyed. Thus, the Rank 1 designation is used for planning purposes, such as targeting areas for future wildlife surveys.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 2
DESCRIPTION Rank 2 is assigned to species-specific habitat patches containing one or more occurrences of species considered to be species of special concern.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 3
DESCRIPTION Rank 3 is assigned to species-specific patches containing one or more occurrences of State threatened species.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 4
DESCRIPTION Rank 4 is assigned to species-specific habitat patches with one or more occurrences of State endangered species.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE 5
DESCRIPTION Rank 5 is assigned to species-specific habitat patches containing one or more occurrences of wildlife listed as endangered and threatened pursuant to the Federal Endangered Species Act of 1973.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD FED_STATUS
FIELD DESCRIPTION
(Federal Status) -Federal status of species present

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

LIST OF VALUES
VALUE Federally Listed Endangered

DESCRIPTION Listed Federally as Endangered by the US Fish and Wildlife Service
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE Federally Listed Threatened
DESCRIPTION Listed Federally as Threatened by the US Fish and Wildlife Service
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE NA
DESCRIPTION Not applicable
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD NJ_STATUS

FIELD DESCRIPTION
(New Jersey Status) - The New Jersey Status of species present

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

LIST OF VALUES
VALUE Special Concern
DESCRIPTION Nongame wildlife species that warrants special attention by the Department because of inherent vulnerability to environmental deterioration or habitat modification that would result in its becoming threatened if conditions surrounding the species begin or continue to deteriorate. Factors that can lead to classification as special concern include, but are not limited to, species rarity in the State, highly specialized food and/or habitat requirements, low reproductive rate, isolated populations of the species within the State and/or other characteristics that make the species particularly susceptible to environmental or habitat changes. This category includes a species that meets the foregoing criteria and for which there is little understanding of its current population status in the State. Species determined to be "special concern" are so-designated at N.J.A.C. 7:25-4.17.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE State Endangered
DESCRIPTION A species included on the list of endangered species at N.J.A.C. 7:25-4.13 and any species or subspecies of wildlife appearing on any Federal endangered species list. The Endangered and Nongame Species Conservation Act (N.J.S.A. 23:2A et seq.) defines an endangered species (with respect to wildlife) to be a species or subspecies of wildlife whose prospects for survival or recruitment are in jeopardy or are likely within the foreseeable future to become so due to any of the following factors: (1) the destruction, drastic modification, or severe curtailment of its habitat, or (2) its over-utilization for scientific, commercial or sporting purposes, or (3) the effect on it of disease, pollution, or predation, or (4) other natural or manmade factors affecting its prospects of survival or recruitment within the State, or (5) any combination of the foregoing factors. The term shall also be deemed to include any species or subspecies of wildlife appearing on any Federal endangered species list.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

VALUE State Threatened
DESCRIPTION An indigenous nongame wildlife species of New Jersey designated pursuant to the Endangered and Nongame Species Conservation Act, N.J.S.A.23:2A et. seq., and its implementing rules, N.J.A.C. 7:25-4.17, as most recently amended. Threatened species are generally defined to be species that may become endangered if conditions surrounding
them begin or continue to deteriorate.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NJDEP FISH AND WILDLIFE

FIELD MX_YEAR
FIELD DESCRIPTION
(LAST OBSERVATION YEAR) - Year species was last observed

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

FIELD CNT_SOA

FIELD DESCRIPTION
(SPECIES OCCURENCE AREA COUNT) - count of the number of species occurrence areas that intersect the patch of habitat

DESCRIPTION SOURCE
NJDEP FISH AND WILDLIFE

DESCRIPTION OF VALUES Unique Entry

OVERVIEW DESCRIPTION
ENTITY AND ATTRIBUTE OVERVIEW   In Version 3.1 a species-based habitat method is implemented by associating each species with a specific set of LULC classes according to the habitat needs of the species. Detailed LULC class delineations allow for an accurate representation of imperiled and special concern species habitat by providing ENSP biologists with the ability to designate a specific set of LULC classes for each individual species-feature label combination. Each species- habitat association is developed by performing a review of scientific literature and/or from information obtained through ENSP research and expert opinion. In addition, a special analysis of the LULC for species and their feature label components was used to guide the selection of particular LULC classes for the creation of species-specific patches of habitat (Appendix IV). In order to create species-based patches of habitat, the relevant LULC polygons from the Landscape base layer are combined into a potential habitat layer specific to each species-feature label. Spatially explicit species occurrence data that meet the criteria required for inclusion in the Landscape Project are then exported from the Biotics database and a species occurrence area (SOA) is applied for every feature label assigned to a species. SOAs are then overlaid onto species-specific habitat patches and patches are classified, or valued, based on the status of the species present as follows: Rank 5 is assigned to species-specific habitat patches containing one or more occurrences of wildlife listed as endangered and threatened pursuant to the Federal Endangered Species Act of 1973. Rank 4 is assigned to species-specific habitat patches with one or more occurrences of State endangered species. Rank 3 is assigned to species-specific patches containing one or more occurrences of State threatened species. Rank 2 is assigned to species- specific habitat patches containing one or more occurrences of species considered to be species of special concern. Rank 1 is assigned to species-specific habitat patches that meet habitat-specific suitability requirements such as minimum size or core area criteria for endangered, threatened or special concern wildlife species, but that do not intersect with any confirmed occurrences of such species (see Appendix V for descriptions of all habitat-specific suitability requirements). Rank 1 habitat patches without documented occurrences are not necessarily absent of imperiled or special concern species. Patches with a lack of documented occurrences may not have been systematically surveyed. Thus, the Rank 1 designation is used for planning purposes, such as targeting areas for future wildlife surveys. A SOA will value habitat that it overlays only if that habitat is appropriate for the species. Habitat patches ranked 2, 3, 4, or 5 intersect with or contain at least one documented SOA. Since imperiled species are typically not abundant across the landscape, a single occurrence may represent a significant portion of the local population and often indicates the presence of a larger population within a habitat patch. The Landscape Project habitat patch mapping approach is designed to capture and represent the habitat needed to support the local population indicated by the individual SOA. In the delineation of Species-Based Habitat, each species-feature label combination is grouped into a Patch Type, or category that describes the method employed to form the valued habitat area from polygons in the Landscape base layer. In addition, for each LULC class selected for a particular species- feature label combination, a LULC Treatment, or rule, is applied that determines how polygons of a LULC class will interact with a SOA and/or with polygons of other LULC classes in order to construct patches of habitat. The four general patch types are described below and the LULC Treatments are defined in Appendix V. For those species-feature label combinations that utilize variations, or subtypes, of the four general types, an explanation of the subtype is also included within Appendix V. Each species-feature label combination is grouped into one of the following patch type categories. Limited Extent polygons from a select set of LULC classes are valued upon intersection with a SOA. Once the valued habitat area is identified, any internal holes or gaps containing polygons of selected LULC classes are also valued if they are completely enclosed by, and contiguous with, the valued area. Contiguous Area polygons from a select set of LULC classes are dissolved/combined into contiguous areas and valued upon intersection with a SOA. Cardinal-Proximate polygons from an initial, or cardinal, set of LULC classes are valued upon intersection with a SOA and then polygons from a second, proximate set of LULC classes are valued based on a spatial relationship (e.g., adjacency) with polygons from the cardinal set of LULC classes and/or a SOA. Once the valued habitat area is identified,

any internal holes or gaps containing polygons of selected LULC classes are also valued if they are completely enclosed by, and contiguous with, the valued area. Stream Centerline stream centerlines are valued upon intersection with a SOA. In Version 3.1 of the Landscape Project, only freshwater mussel species utilize the Stream Centerline patch type, described more thoroughly in the next section.

ENTITY AND ATTRIBUTE DETAIL CITATION http://www.state.nj.us/dep/fgw/ensp/landscape/index.htm

Metadata Details

ARCGIS METADATA PROPERTIES
METADATA FORMAT ESRI-ISO

CREATED IN ARCGIS FOR THE ITEM 2012-02-15 08:28:53
LAST MODIFIED IN ARCGIS FOR THE ITEM 2012-02-15 08:34:24

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2012-02-15 08:28:56

FGDC Metadata (read-only)