

# National Land Cover Gap Analysis Project

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### *Identification\_Information:*

*Citation:*

*Citation\_Information:*

*Originator:* Gap Analysis Program

*Publication\_Date:* February 2010

*Title:* National Land Cover Gap Analysis Project

*Edition:* Version 1

*Geospatial\_Data\_Presentation\_Form:* remote-sensing image

*Online\_Linkage:*

[<ftp://ftp.gap.uidaho.edu/outgoing/National/National\\_landcover.zip>](ftp://ftp.gap.uidaho.edu/outgoing/National/National_landcover.zip)

*Description:*

*Abstract:*

This dataset combines the work of several different projects to create a seamless data set for the contiguous United States. Data from four regional Gap Analysis Projects and the LANDFIRE project were combined to make this dataset. In the Northwestern United States (Idaho, Oregon, Montana, Washington and Wyoming) data in this map came from the Northwest Gap Analysis Project. In the Southwestern United States (Colorado, Arizona, Nevada, New Mexico, and Utah) data used in this map came from the Southwest Gap Analysis Project. The data for Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Mississippi, Tennessee, and Virginia came from the Southeast Gap Analysis Project and the California data was generated by the updated California Gap land cover project. In areas of the country (central U.S., Northeast) that have not yet been covered by a regional Gap Analysis Project, data from the Landfire project was used. In 2009 Landfire data was combined by the Landscape project into one uniform coverage. This compiled data was the data pulled into this project.

Similarities in the methods used by these projects made possible the combining of the data they derived into one seamless coverage. They all used multi-season satellite imagery (Landsat ETM+) from 1999-2001 in conjunction with digital elevation model (DEM) derived datasets (e.g. elevation, landform) to model natural and semi-natural

vegetation. Vegetation classes were drawn from NatureServe's Ecological System Classification (Comer et al. 2003). Additionally, all of the projects included land use classes that were employed to describe areas where natural vegetation has been altered. In many areas of the country these classes were derived from the National Land Cover Dataset (NLCD). For the majority of classes and, in most areas of the country, a decision tree classifier was used to discriminate ecological system types. In some areas of the country, more manual techniques were used to discriminate small patch systems and systems not distinguishable through topography.

Online references

Northwest Gap Analysis Project <<http://gap.uidaho.edu/index.php/gap-home/Northwest-GAP>>

Southwest Gap Analysis Project- <<http://earth.gis.usu.edu/swgap/>>

Southeast Gap Analysis Project- <<http://www.basic.ncsu.edu/segap/>>

California Gap land cover project

<<http://www.gap.uidaho.edu/Portal/California/CAReGAP.html>>

LANDFIRE- <<http://www.landfire.gov/>>

Landscape- <<http://www.landscape.org/>>

NatureServe- <<http://natureserve.org/>>

National Land Cover Dataset- <<http://www.epa.gov/mrlc/nlcd-2001.html>>

*Purpose:*

The digital land cover dataset may be used for various purposes with user's discretion.

Specifically, this dataset was created for regional terrestrial biodiversity assessment.

These data are not intended to be used at scales larger than 1:100,000.

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Range\_of\_Dates/Times:*

*Beginning\_Date:* 1999

*Ending\_Date:* 2001

*Currentness\_Reference:* ground condition

*Status:*

*Progress:* In work

*Maintenance\_and\_Update\_Frequency:* Irregular

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -131.720826

*East\_Bounding\_Coordinate:* -64.761500

*North\_Bounding\_Coordinate:* 52.496415

*South\_Bounding\_Coordinate:* 22.067063

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* none

*Theme\_Keyword:* land cover

*Theme\_Keyword:* vegetation

*Place:*

*Place\_Keyword:* Continental United States

*Place\_Keyword:* Southeastern United States

*Place\_Keyword:* Northwestern United States

*Place\_Keyword:* Central United States

*Place\_Keyword:* Northeastern United States

*Place\_Keyword:* Southwestern United States

*Access\_Constraints:* none

*Use\_Constraints:*

Appropriate scale for these data is 1: 100,000 or smaller. The user assumes responsibility when using this dataset.

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Anne Davidson

*Contact\_Organization:* National Gap Analysis Program

*Contact\_Position:* Spatial Ecologist

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 530 S. Asbury Suite 1

*City:* Moscow

*State\_or\_Province:* Idaho

*Postal\_Code:* 99163

*Country:* U. S.

*Contact\_Voice\_Telephone:* 208-885-3720

*Contact\_Electronic\_Mail\_Address:* adavidson@uidaho.edu

*Hours\_of\_Service:* 8 a.m - 5 p.m. PST

*Native\_Data\_Set\_Environment:*

Microsoft Windows Vista Version 6.1 (Build 7600) ; ESRI ArcCatalog 9.3.1.3000

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

Accuracy assessments have been conducted for part of the Northwestern United States and the Southwestern United States

*Logical\_Consistency\_Report:* Not applicable for raster data

*Completeness\_Report:*

All cells within the continental United States have been assigned an Ecological System or land use Value and description. Work is ongoing to improve country wide consistency in the class assignment process.

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:*

United States Geological Survey, EROS Data Center, National Elevation Dataset

*Publication\_Date:* 1999

*Title:* 30 Meter Digital Elevation Model

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

*Online\_Linkage:* <<http://ned.usgs.gov/>>

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:*

United States Geological Survey, EROS Data Center, Multi-Resolution Land Characteristics Consortium

*Publication\_Date:* 199-2001

*Title:* Landsat 7, ETM+ Imagery

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

*Other\_Citation\_Details:*

Landsat 7 ETM+ Imagery provided for Spring, Summer and Fall dates between 1999 and 2001

*Online\_Linkage:* <<http://www.mrlc.gov/index.asp>>

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

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1999

*Time\_of\_Day:* 2001

*Source\_Currentness\_Reference:* ground condition

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Title:* National Land Cover Dataset

*Process\_Step:*

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*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Raster

*Raster\_Object\_Information:*

*Raster\_Object\_Type:* Pixel

*Row\_Count:* 100657

*Column\_Count:* 163330

*Vertical\_Count:* 1

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*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Planar:*

*Map\_Projection:*

*Map\_Projection\_Name:* Albers Conical Equal Area

*Albers\_Conical\_Equal\_Area:*

*Standard\_Parallel:* 29.500000

*Standard\_Parallel:* 45.500000

*Longitude\_of\_Central\_Meridian:* -96.000000

*Latitude\_of\_Projection\_Origin:* 23.000000

*False\_Easting:* 0.000000

*False\_Northing:* 0.000000

*Planar\_Coordinate\_Information:*  
*Planar\_Coordinate\_Encoding\_Method:* row and column  
*Coordinate\_Representation:*  
*Abscissa\_Resolution:* 30.000000  
*Ordinate\_Resolution:* 30.000000  
*Planar\_Distance\_Units:* meters  
*Geodetic\_Model:*  
*Horizontal\_Datum\_Name:* North American Datum of 1983  
*Ellipsoid\_Name:* Geodetic Reference System 80  
*Semi-major\_Axis:* 6378137.000000  
*Denominator\_of\_Flattening\_Ratio:* 298.257222

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* gapnat\_lndcov\_0210.img.vat

*Attribute:*

*Attribute\_Label:* OID

*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:*

Code used to identify Ecological System or land use class. Same as Level 3 class

*Attribute:*

*Attribute\_Label:* Count

*Attribute\_Definition:* Number of 30 m x 30 m pixels per class

*Attribute:*

*Attribute\_Label:* Red

*Attribute\_Definition:* Red color value

*Attribute:*

*Attribute\_Label:* Green

*Attribute\_Definition:* Green color value

*Attribute:*

*Attribute\_Label:* Blue

*Attribute\_Definition:* Blue color value

*Attribute:*

*Attribute\_Label:* Level1

*Attribute\_Definition:*

Value at the most general level of classification level 1. Level 1 contains 8 classes and generalizes to the level of vegetative physiognomy.

*Attribute:*

*Attribute\_Label:* CN\_Level1

*Attribute\_Definition:* Description of Level 1 classification.

*Attribute:*

*Attribute\_Label:* Level2

*Attribute\_Definition:*

Value at the intermediate level of classification level 2. Level 2 contains 43 classes and incorporates information on elevation and climate.

*Attribute:*

*Attribute\_Label:* CN\_Level2

*Attribute\_Definition:* Description of level 2 classes.

*Attribute:*

*Attribute\_Label:* Level3

*Attribute\_Definition:*

Value at the most detailed level of classification. Level 3 contains the full 583 Ecological systems and land use classes.

*Attribute:*

*Attribute\_Label:* CN\_Level3

*Attribute\_Definition:* Description of level 3 classes.

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*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Anne Davidson

*Contact\_Organization:* National Gap Analysis Program

*Contact\_Position:* Spatial Ecologist

*Contact\_Voice\_Telephone:* 208 885-3720

*Contact\_Electronic\_Mail\_Address:* adavidson@uidaho.edu

*Hours\_of\_Service:* 8-5 PST

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 0.000

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20100219

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* National Gap Analysis Program

*Contact\_Person:* Anne Davidson

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 530 S. Asbury Suite 1

*City:* Moscow

*State\_or\_Province:* Idaho

*Postal\_Code:* 83843

*Contact\_Voice\_Telephone:* 208 885-3720

*Contact\_Electronic\_Mail\_Address:* adavidson@uidaho.edu

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

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

*Metadata\_Time\_Convention:* local time

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile

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