

Environmental Risk Categorization (Western Electricity Coordinating Council)



Summary

WECC's environmental risk classification system assigns a relative risk of encountering environmental sensitivities to land areas using preferred environmental data sets. Stakeholders can use these risks to plan and evaluate potential transmission alternatives.

Description

The Environmental Risk Classification Data Layer (referred to here as the "Environmental Data Layer") is a geospatial representation of planning-level risks to the development and expansion of the Western Interconnection electrical network¹ based on environmental features of the landscape. This feature class contains environmental risk classes developed by the Western Electricity Coordinating Council (WECC). WECC uses these risk categories to identify least-environmental risk corridors for transmission development in its Long-Term Planning Tool (LTPT). Other stakeholders use these categories to better understand potential environmental risks and avoid areas with the highest potential environmental risks.

Credits

WECC

Use limitations

The Environmental Data Layer represents WECC's best available information on environmental risks to siting transmission. Although every effort was made to ensure consistency and accuracy of the information, the Environmental Data Layer contains a number of placeholders and unresolved issues that WECC may attempt to address in future versions.

Extent

West -139.047769 **East** -102.037198
North 60.003858 **South** 30.544207

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

* CONTENT TYPE Downloadable Data

Citation

TITLE Environmental Risk Categorization (Western Electricity Coordinating Council)
PRESENTATION FORMATS * digital map

Resource Details

DATASET LANGUAGES * English (UNITED STATES)

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri
ArcGIS 10.3.0.4322

CREDITS

WECC

ARCGIS ITEM PROPERTIES

* NAME wecc_environmental_risk_classes_v2

* SIZE 0.000

* ACCESS PROTOCOL Local Area
Network

Extents

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -139.047769

* EAST LONGITUDE -102.037198

* NORTH LATITUDE 60.003858

* SOUTH LATITUDE 30.544207

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -

15478726.840441

* EAST LONGITUDE -

11358728.975041

* SOUTH LATITUDE 3573696.156786

* NORTH LATITUDE 8400596.774895

* EXTENT CONTAINS THE RESOURCE Yes

Resource Constraints

CONSTRAINTS LIMITATIONS OF USE

The Environmental Data Layer represents WECC's best available information on environmental risks to siting transmission.

Although every effort was made to ensure consistency and accuracy of the information, the Environmental Data Layer contains a number of placeholders and unresolved issues that WECC may attempt to address in future versions.

Spatial Reference

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984

* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100

X ORIGIN -20037700

Y ORIGIN -30241100

XY SCALE 148923141.92838538

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3857

WELL-KNOWN TEXT

PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 3857

* CODESPACE EPSG

* VERSION 8.2.6

Spatial Data Properties

VECTOR

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME wecc_environmental_risk_classes_v2

* OBJECT TYPE composite

* OBJECT COUNT 2228373

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME wecc_environmental_risk_classes_v2

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 2228373
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

Distribution

DISTRIBUTION FORMAT

- * NAME File Geodatabase Feature Class

TRANSFER OPTIONS

- * TRANSFER SIZE 0.000

Fields

DETAILS FOR OBJECT wecc_environmental_risk_classes_v2

TYPE Feature Class

ROW COUNT 2228373

FIELD

OBJECTID

► ALIAS

OBJECTID

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 CBI_TYPE

ALIAS CBI_TYPE

DATA TYPE String

WIDTH 80

PRECISION 0

SCALE 0

FIELD DESCRIPTION

The CBI PAD designation, if present

FIELD PADWECCTYP

ALIAS PADWECCTYP

DATA TYPE String

WIDTH 75

PRECISION 0

SCALE 0

FIELD DESCRIPTION

The CBI PAD area translated to WECC Area Type

FIELD PADWECCCLS

ALIAS PADWECCCLS

DATA TYPE SmallInteger

WIDTH 2

PRECISION 0

SCALE 0

FIELD DESCRIPTION

The WECC Risk Class of the CBI PAD Area Type

FIELD RISK_CLASS

ALIAS RISK_CLASS

DATA TYPE SmallInteger

WIDTH 2

PRECISION 0

SCALE 0

FIELD DESCRIPTION

The WECC Risk Class assigned to this polygon

FIELD ALLTYPES1

ALIAS ALLTYPES1

DATA TYPE String

WIDTH 300

PRECISION 0

SCALE 0

FIELD DESCRIPTION

A list of Risk Class 1 Area Types present

FIELD ALLTYPES2

ALIAS ALLTYPES2

DATA TYPE String

WIDTH 300

PRECISION 0

SCALE 0

FIELD DESCRIPTION

A list of Risk Class 2 Area Types present

FIELD ALLTYPES3

ALIAS ALLTYPES3

DATA TYPE String

WIDTH 300

PRECISION 0

SCALE 0

FIELD DESCRIPTION

A list of Risk Class 3 Area Types present

FIELD ALLTYPES4

ALIAS ALLTYPES4

DATA TYPE String

WIDTH 300

PRECISION 0

SCALE 0

FIELD DESCRIPTION

A list of Risk Class 4 Area Types present

FIELD Shape_Length

ALIAS Shape_Length

DATA TYPE Double

WIDTH 8

PRECISION 0

SCALE 0

FIELD DESCRIPTION

Length of feature in internal units.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

FIELD Shape_Area

ALIAS Shape_Area

DATA TYPE Double

WIDTH 8

PRECISION 0

SCALE 0

FIELD DESCRIPTION

Area of feature in internal units squared.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Metadata Details

* METADATA LANGUAGE English (UNITED STATES)

* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

* LAST UPDATE 2016-09-20

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2016-09-14 15:08:59
LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-09-20 14:40:21
AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2016-09-20 14:39:59