Boston **EnviroAtlas: Using** Uik hiladelphia ngton Web Services

Gulf of Mexico

lake Sperior

> Lake luron

Montréal

Lak

Toronto Onto

Mamu

EnviroAtlas web services can be accessed from the Interactive Map

You are here: EPA Home » EnviroAtlas » Interactive Map EnviroAtlas Demographics Ecosystem Services National D Ip Legend Ø Clean Air creation, Culture, and Aesthetics Clean and Plentiful Water rcent rare ecosystem protected Natural Hazard Mitigation 0.00% - 2.96% Climate Stabilization 2.97% - 9.85% Recreation, Culture, and Aesthetics 9.86% - 18.02% 18.03% - 27.36% + Protected Lands 27.37% - 38.00% Featured Habitat Types 38.01% - 48.83% 48.84% - 61.73% Rare Ecosystems 61.74% - 77.16% Percent rare ecosystem 6 77.17% - 92.17% 92.18% - 100.02 Percent rare ecosystem protected 🕢 Map Description + Hubs and Corr 21 Data Fact Sheet I Aquatic Hahita Access Web Service Food, Fuel, and Materials Full Metadata Biodiversity Conservation Copen Map Legend Transparency

 Click on the info
 button in the table of contents.
 Select Access Web Service.

| Percent rare ecosystem pr × | | |
|--|---|--|
| ← → C enviroatlas.epa.gov/ArcGIS/rest/services/EnviroAtlas/ESN_R | ecreationCultureAesthetics/MapServer/ ☆ 🔳 | |
| ArcGIS Services Directory | | |
| Home > EnviroAtlas > ESN_RecreationCultureAesthetics (MapServer) > protected | Percent rare ecosystem Help API Reference | |
| Percent are cooptemp: X Percent are cooptemp: X Percent are cooptemp: X Percent are cooptemp: X Percent rare ecosystem protected (ID: 75) Percent rar | | |
| Parent Layer: Rare Ecosystems | EnviroAtlas organizes Web Services with | |
| Sub Layers: | related lavers grouped together. | |
| Percent rare ecosystem protected | | |
| Display Field: | This succession time to the sector of the | |
| Type: Group Layer | This organizational structure matches the | |
| Geometry Type: | interactive map table of contents and | |
| Description: Full Metadata This map estimates the percent of land within e protected and could be classified as rare ecosystem. Ecosystem rarity in Energy ecosystem. | benefit categories. | |
| Definition Expression: | | |
| Copyright Text: EnviroAtlas | If you selected an individual layer's web | |
| Min. Scale: 0 | service, you will need to navigate up to get the | |
| Max. Scale: 0 | full map service. It will show (MapServer) | |
| Default Visibility: False | after its title. | |
| Extent: | | |
| XMin: -19951722.807 YMin: 1999400.4632 XMax: 20021529.1118 YMax: 11554249.7221 Spatial Reference: 102100 (3857) | | |
| Has Attachments: False | | |
| HTML Popup Type: esriServerHTMLPopupTypeNone | | |
| Fields: | - | |

| EnviroAtlas/ESN_Recreatic × | |
|---|---|
| ← → C | ationCultureAesthetics/MapServer 🛣 🔳 |
| ArcGIS Services Directory | |
| <u>Home > EnviroAtlas > ESN_RecreationCultureAesthetics (MapServer)</u> | Help API Reference |
| EnviroAtlas/ESN_RecreationCultureAesthetics (Maj | pServer) |
| View In: ArcMap ArcGIS Explorer ArcGIS JavaScript Google Earth ArcGIS.c | om Map |
| View Footprint In: Google Earth | |
| Service Description: Full Metadata This EnviroAtlas web service supports research | ch and online manping activities related to |
| EnviroAtlas (http://EnviroAtlas.epa.gov). The Recreation, Culture, and Aesthetics | category in this web service includes layers |
| the need or demand for these amenities, the impacts associated with their presen | ice and accessibility, and factors that place |
| stress on the natural environment's capability to provide these benefits. EnviroAtle | as allows the user to interact with a web- services for the conterminous United States |
| Additional descriptive information about each attribute in this web service is locat | ed within each web service ayer (see Full |
| Metadata hyperlink) or can be found in its associated EnviroAtlas Fact Sheet (http | p://EnviroAtlas.epa.gov/DatahactSheets). |
| Map Name: RECREATION, CULTURE, AND AESTHETICS | Once at the ManConversion concert |
| Legend | Once at the MapServer you can select |
| All Layers and Tables | how you want to view the map service. |
| l avers: | |
| | |
| Land Cover (0) | Currently EnviroAtlas web services work |
| Vegetated (1) Percent patural land cover (2) | Currently, EnviroAtias web services work |
| Land cover dataset overlap less than 66% of WBD area (3 | best in ArcGIS.com and desktop GIS. We |
| Percent natural land cover (4) | are working to improve the display in |
| Percent forest (5) Land cover dataset overlap less than 66% of WBD area (6 | are working to improve the display in |
| Percent forest (7) | Google Earth and ArcGIS JavaScript. |
| Percent forest and woody wetlands (8) Land cover dataset overlap less than 66% of WRD area (9) | |
| Percent forest and woody wetlands (10) | |
| <u>Percent wetlands</u> (11) | |
| Land cover dataset overlap less than 66% of WBD area (1 Percent wetlands (13) | .2) |
| Percent emergent herbaceous wetlands (14) | |
| Land cover dataset overlap less than 66% of WBD area (1 | 5) |
| Percent emergent herbaceous wetlands (16) Managed and Developed (17) | |
| Percent cropland (18) | |
| Land cover dataset overlap less than 66% of WBD area (1 | 9) |
| <u>Percent cropland</u> (20) | |

To acquaint you with web services published by EnviroAtlas, we will go through an example using ArcGIS.com.



When you first open the map service in ArcGIS.com, none of the layers are turned on.

To turn on the layers, you need to open the map **Details**.



Once the map Details tab is open, click on Show Contents of Map.



Click on the name of the MapServer to expand the Table of Contents.

As you can see, no layers are currently turned on.



Select a layer to view.

Make sure to check all the levels of the table of contents that lead to your layer. Otherwise, the layer cannot display.



Select the **Add** button to view additional data with your current map.

As an example, lets add another map service to this map.

To do this, select Add
 Layer from Web.

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|--|----|
| ← → C 🗋 www.geocommunicator.gov/ARCGIS/REST/services/Solar/MapServer | |
| ArcGIS Services Directory | |
| Home > Solar (MapServer) Help API Ref | fe |
| Solar (MapServer) | |
| View In: ArcMap ArcGIS Explorer ArcGIS JavaScript Google Earth ArcGIS.com Map | |
| View Footprint In: Google Earth | |
| Service Description: BLM Solar Energy Study Zones | |
| Map Name: Solar | |
| Legend | |
| All Layers and Tables | |
| Layers: | Ŋ |
| States (0) Solar Energy Study Areas (1) Tables: | |
| Description: This service provides Bureau of Land Management Solar Energy Study Zones as part of the Solar Energy Development Programmatic Environmental Impact Statement (PEIS). | |
| Copyright Text: Dept of the Interior, Bureau of Land Management | |
| Spatial Reference: 4269 | |
| Single Fused Map Cache: false | |
| Initial Extent: | |
| XMin: -196.143607090117 YMin: -33.2936232285499 XMax: 0.718638135037793 YMax: 107.8117519091 Spatial Reference: 4269 | |
| Full Extent: | |
| XMin: -178.215027134185 YMin: 18.9247814623509 XMax: -66.9698480305797 YMax: 71.4066465112282 | |

Spatial Reference: 4269 Units: esriDecimalDegrees

Supported Image Format Types: PNG32,PNG24,PNG,JPG,DIB,TIFF,EMF,PS,PDF,GIF,SVG,SVGZ,BMP

Document Info:

For this example, we will use map services provided by the U.S Bureau of Land Management (BLM).

To add this BLM Solar layer to the EnviroAtlas map of precipitation, **Copy the entire url address** of the MapServer.



Paste the url for the BLM Solar MapServer into the **Add Layer from Web** box.

Click Add Layer.



Once the layer has been added to the map, it will show up in the map table of contents.

To view the legend, click **Show Map Legend**. The legend shows all the layers that are turned on from the various map servers.



For a desktop GIS, you would use a process similar to the one just shown.



A complete list of the EnviroAtlas Web Services can be found at the following url:

http://enviroatlas.epa.gov/arcgis/ rest/services

> In the future, EnviroAtlas users will be able to bring in external web services and use their own data in the EnviroAtlas interactive map.