

Habitat Analysis Tutorial

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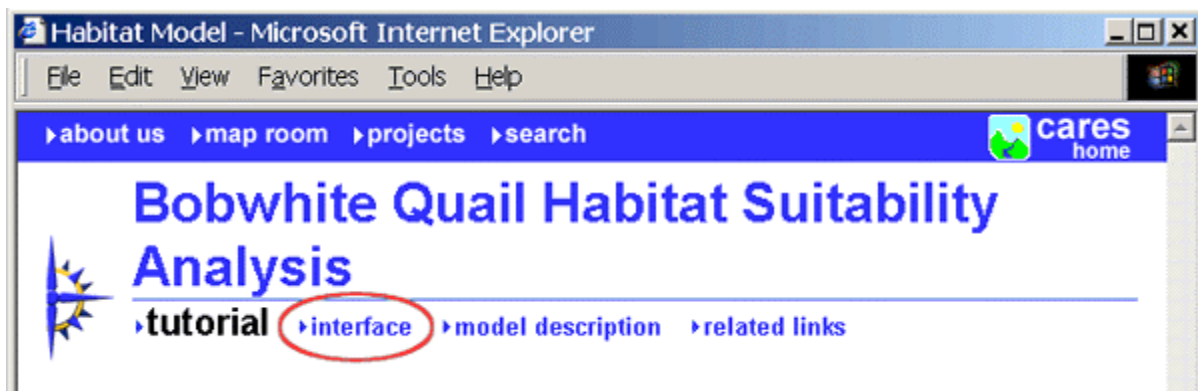
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1. Start the Habitat Analysis Interface

Click the interface link above to open the Habitat Analysis Interface starting page:




There are three options for starting a Habitat Analysis Interface, depending on the land cover datasets available for the analysis.

Start Winter Habitat Analysis Using Statewide Land Cover Dataset

Click on the first option link on the page to start the interface using statewide land cover dataset. This land cover dataset can only be used for winter habitat analysis.

Habitat Model - Microsoft Internet Explorer

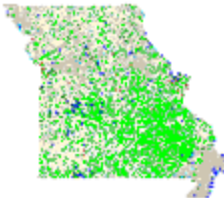
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Bobwhite Quail Habitat Suitability Analysis

▶ tutorial ▶ **interface** ▶ model description ▶ related links

Bobwhite habitat suitability prediction is based on landscape characteristics (click on [model description](#) for details). Based on the availability of land cover data in Missouri, three modeling interfaces are provided:

 **Winter Habitat Analysis Using Statewide Land Cover Dataset**


The statewide land cover dataset was developed by the Missouri Resource Assessment Partnership (MoRAP). It is based on the 1991-1993 satellite images with 30-meter resolution. The land cover boundary accuracy and classifications are therefore limited to the image resolution and pixel values.

Start Habitat Analysis Using DOQ-Based Land Use Inventory Dataset in Callaway County, Missouri

Click on the second option link on the page to start the interface using DOQ-based land use inventory dataset. This land cover dataset is currently only available for Callaway county, Missouri. The dataset provides detailed and more accurate land use information, therefore it can be used for winter, summer or overall habitat analysis in Callaway county.

Habitat Model - Microsoft Internet Explorer


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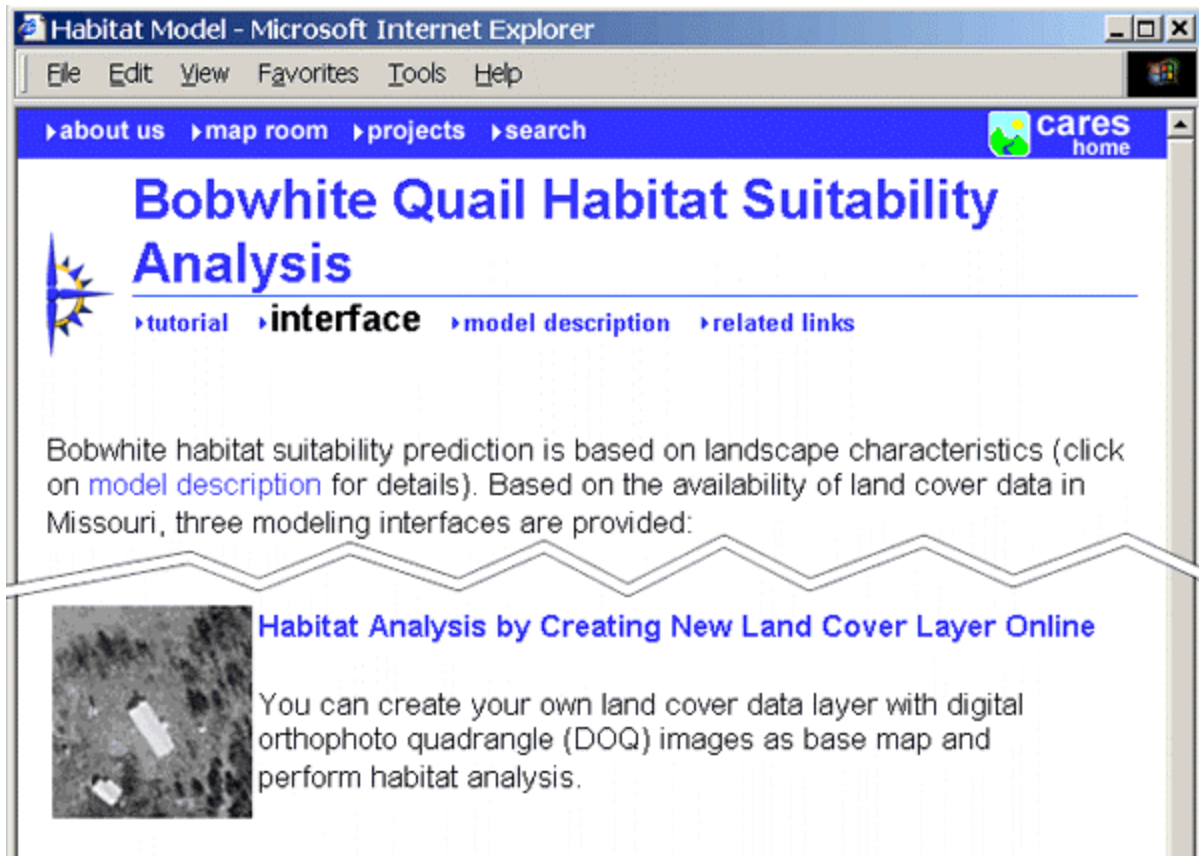


Habitat Analysis Using DOQ-Based Land Use Inventory Dataset in Callaway County, Missouri

The Callaway county land use inventory dataset was developed by the USDA Callaway County Field Office as a pilot project of the Farm Service Agency's Common Land Unit (CLU) program. It is based on early 1990's digital orthophoto quadrangle (DOQ) images and farm reports. It provides full inventory of all land uses in the county.

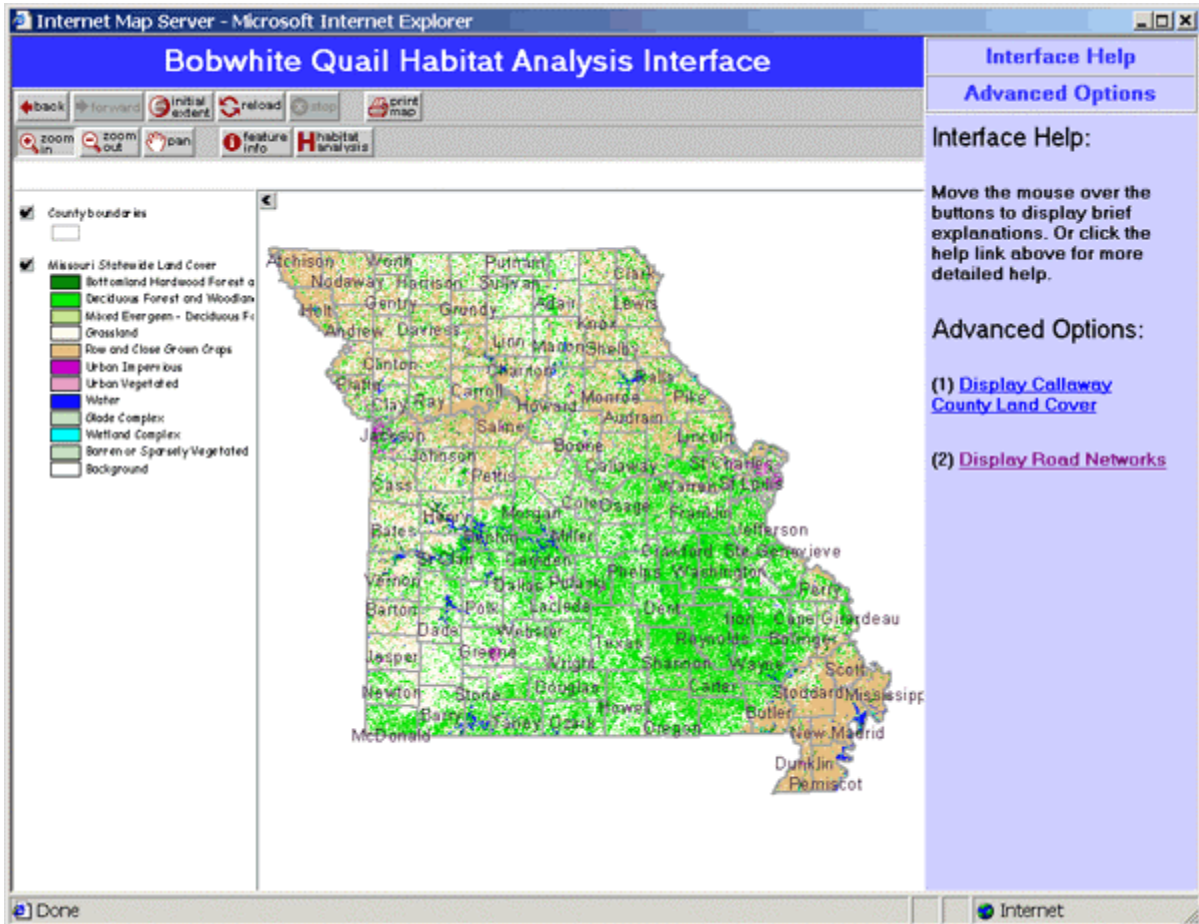
Start Habitat Analysis by Creating New Land Cover Layer

Click on the third option link on the page to start the interface for creating your own land cover dataset and performing habitat analysis.



2. Habitat Analysis Interface Functionality

The habitat analysis interface is composed of three sections: a menu interface on the top, a map section showing data layers and legends, and an info panel on the right.






The menu interface includes a button menu and a tool menu for navigating map, printing map, identifying data layer attribute information, and performing habitat analysis. The button menu contains buttons and is placed on the top row, and the tool menu contains tools and is placed on the second row.


A button executes its function immediately when it is clicked. Click on a tool only activates it. A tool requires user interaction with the map before it executes its function. It remains active until another tool is activated. While a tool is active, each click over the map display triggers its function. An active tool appears the icon being pressed in such as the 'zoom in' tool on the image above.

Navigate Map:

	Click on the button to return to the previous viewing extent.
	If you have returned to a previous extent, click on the button to go forward again.
	Click on the button to go back to the initial map extent you saw when you first accessed the map.
	Click on the button to refresh the current map from the browser cache. Useful if the current map was not drawn correctly. This button does not retrieve the map from the map server again.
	Click on the button to stop retrieving the current map if you change your mind and do not want


	to wait or if you think something went wrong. The button appears gray when the map retrieving process is stopped.
	Click on a location or define a box to enlarge the map features. It will appear that the map is moving closer.
	Click on a location or define a box to reduce the map features. It will appear that the map is moving further away.
	Drag the map or click on a new location to re-position the map display.

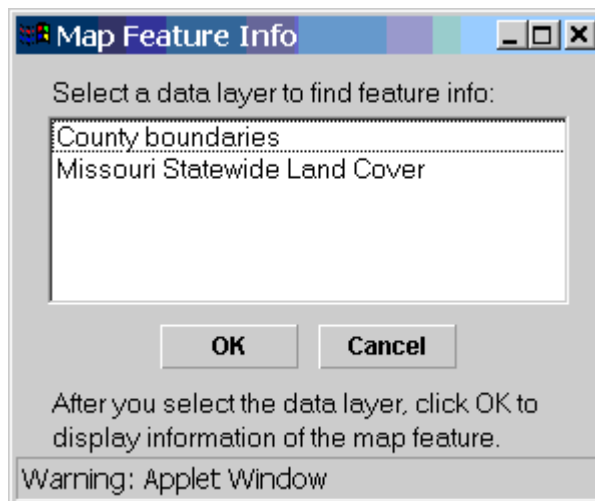
Print Map:

Click on the  button to generate a map for printing out or saving to local disk. It pops up a dialog window for entering map title. The the printable map is displayed on a separate window with the current map display and legend.

Identify a Data Layer's Attribute Information:


To find out attribute information of a specific data layer for a specific location:


- Click on the  tool to activate it if it is not the active tool;
- Click on a location of your interest on the map display. If more than one data layers are visible on the maps, a data layer list will be displayed. Select a data layer from the list for the identifying operation.

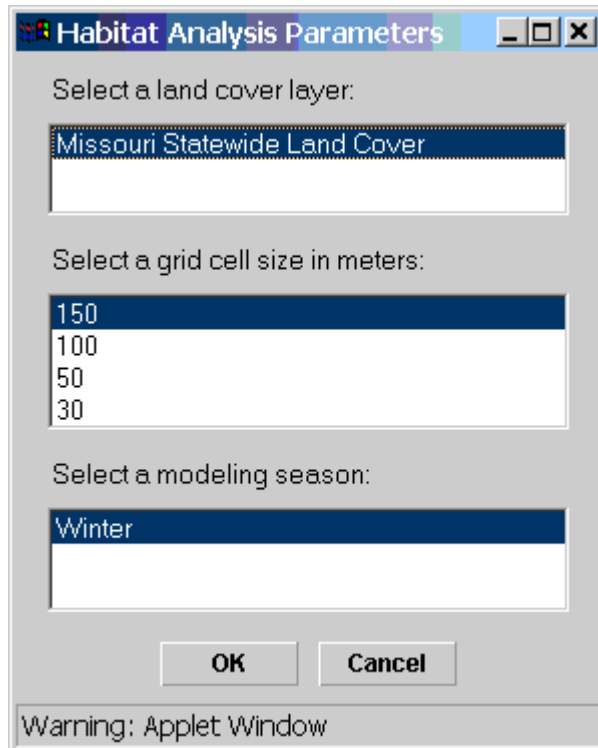


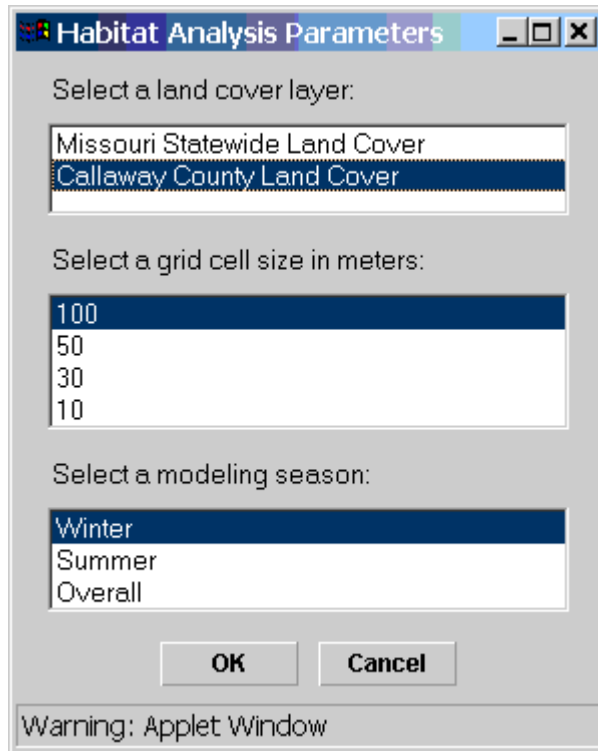
- The attribute information of the selected data layer on the location of interest will be displayed on the info panel.

Perform Habitat Analysis

- Activate the  tool if it is not the current active tool;

- Draw an outline on the map display to define the study area. Double click the last point to complete the outline. If the map display is too far away to define your study area, zoom the map closer using the  tool (see [Navigate Map](#) section for help on the Zoom In tool).
- Select analysis parameters including land cover layer, grid cell size and modeling season from the Habitat Analysis Parameters dialog window. The dialog window pops up automatically once the study area outline is completed.
When the Missouri Statewide Land Cover is used for habitat analysis, the grid cell size options are 150, 100, 50 and 30 meters and only winter habitat can be estimated. Otherwise, the grid cell options are 100, 50, 30 and 10 meters. And the modeling season options include winter, summer and overall.

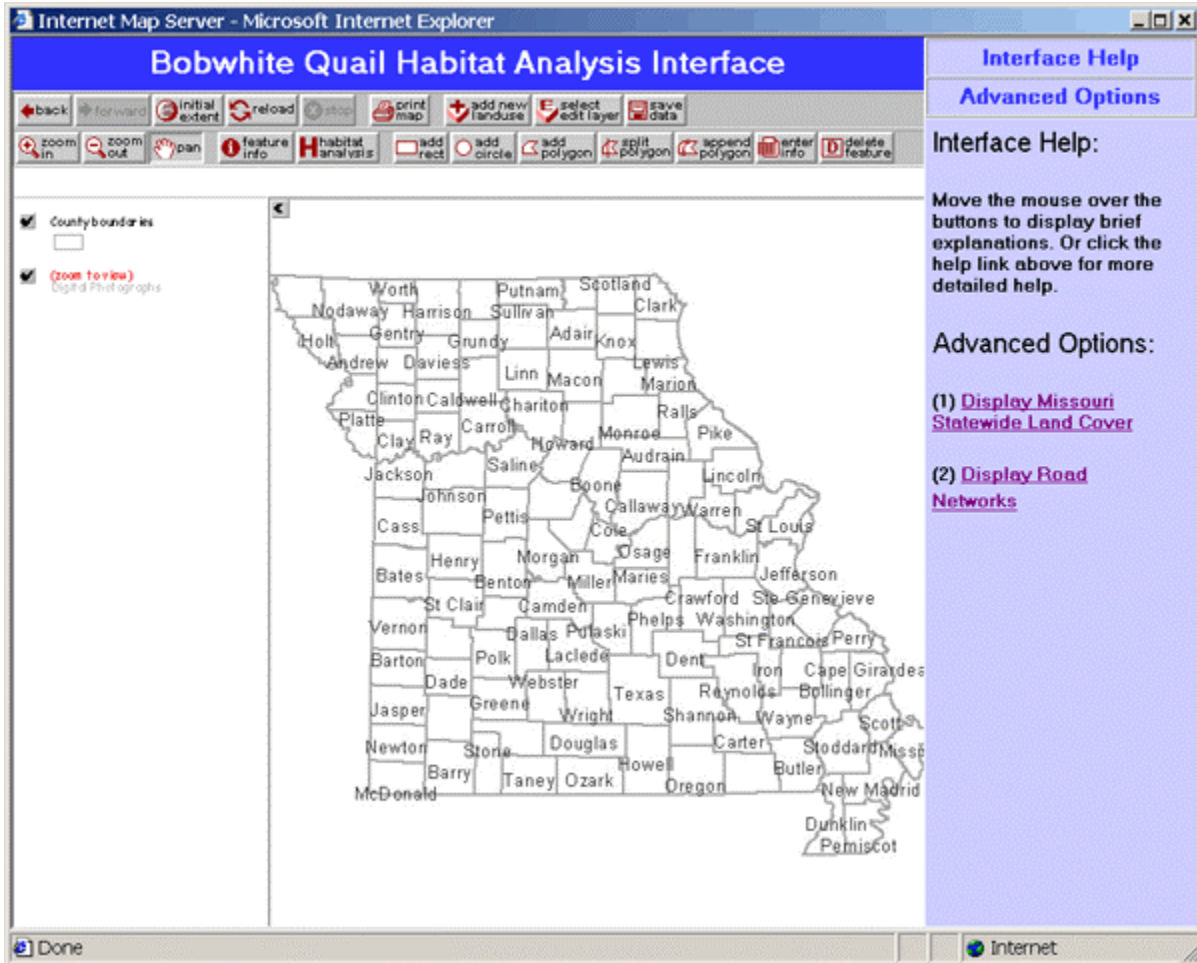







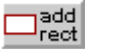
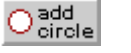

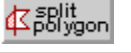

- Click the OK button the dialog window to complete the selection of habitat analysis parameters. If the estimated process time exceeds 1-minute, the requested analysis will not be performed. The info panel will display a message. Otherwise, the estimated habitat result will be added to the map display.



Create a New Land Cover Data Layer

If you start the habitat analysis interface by choosing to create a new land cover data layer, the interface will include additional buttons and tools.



The functionality of the buttons and tools for generating new land cover data layer are described below:

	Click on the button to create a new land cover data layer for digitizing fields.
	Click on the button to select a different land cover layer for editing. It is useful for switching between editable land cover data layers if you have created more than one land cover layers to the map.
	Click on the button to select and save user-created land cover data layer(s) to local drive.
	Add a rectangle shaped land cover unit to the editing land cover data layer by drawing a rectangle on the map.
	Add a circular shaped land cover unit to the editing land cover data layer by drawing a circle on the map.
	Add an irregular shaped land cover unit to the editing land cover data layer by drawing a polygon on the map. Double click to complete the polygon drawing.
	Split a land cover unit into two units by drawing a line going through the unit.
	Append an new land cover unit next to an existing land cover unit polygon by drawing the additional boundary line.

	Click on a land cover unit to select it and enter land cover attribute information.
	Click on a land cover unit to delete it from the editing land cover data layer.

3. More Options

Display Other Datasets on the Map

The info panel on the habitat analysis interface has two links on the top: Interface Help and Advanced Options. The Advanced Options link allows adding other land cover and road network data layers to the current map display.

Save the Habitat Analysis Result to Local Drive

Once a habitat analysis request is successfully completed, the result is displayed on the map. The info panel displays a hyperlink to download the analysis result to your local drive. The analysis result is a point shapefile, zipped with WinZip program.

Access Online Help

The info panel has two links on the top: Interface Help and Advanced Options. Click on the Interface Help link anytime to display the online help page on the buttons and tools.