

Clipping Multiple Layers

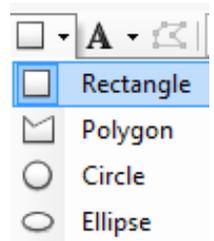
The following outlines steps to clip multiple vector layers in ArcMap. [Download sample data here](#). Unzip the file before proceeding.

Identify the clipper

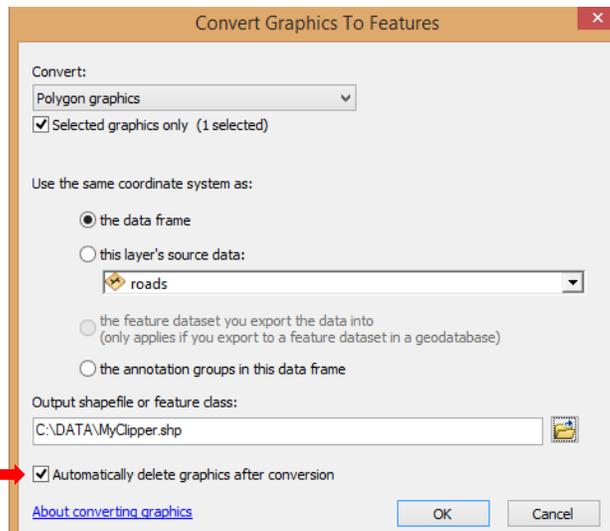
1. Run ArcMap and add the layers you want to clip.
2. A polygon must be defined as the clipper. There are a number of ways this can be done.
 - a. Add a polygon layer to use as the clipper
 - b. Add a polygon layer and select a single feature from the layer to use as the clipper
 - c. Draw a polygon graphic and convert it to a layer to be used as the clipper

These instructions will demonstrate converting a graphic and using it as a clipper.

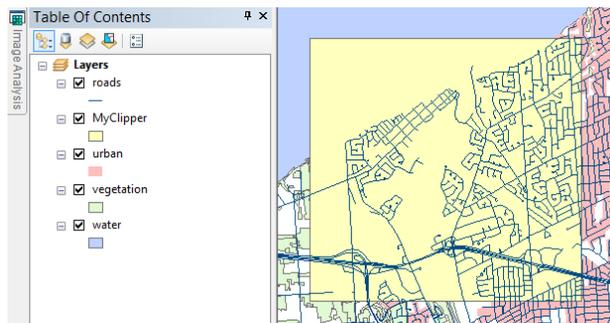
3. From the Drawing Toolbar select a polygon shape to draw. (If you do not see the Drawing Toolbar, right-click in the grey space at the top and select **Draw**.)
4. Draw the shape in the map window.



5. From the Drawing dropdown menu, select  **Convert Graphics To Features...**
6. Fill in the dialogue box as appropriate making sure to check the box beside “Automatically delete graphics after conversion. Click OK.

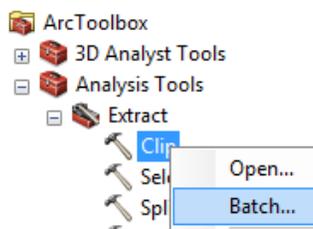


7. When prompted to add the exported data to the map as a layer, click “Yes”. Note the added layer in the table of contents and map window.

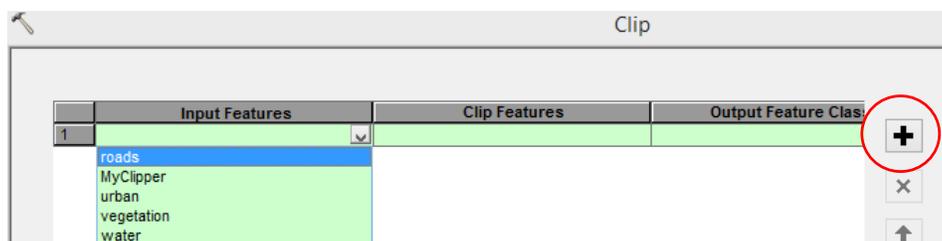


Clipping multiple layers (batch clipping)

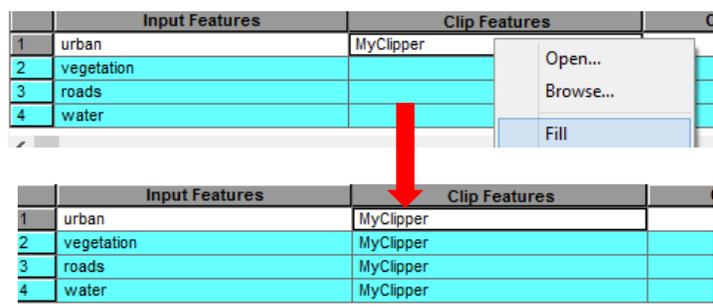
8. Run ArcToolbox. (HINT: Select **Geoprocessing > ArcToolbox**)
 9. Expand **Analysis Tools** and **Extract** then **RIGHT-CLICK** the Clip tool to access the BATCH option.



10. From the CLIP dialogue box, click the field below “Input Features” to select the first layer to clip.
 11. Click in the field below “Clip Features” to select the layer to be used as the ‘clipper’ (in this case, **MyClipper** created above). Notice that all polygon layers are listed as options under this heading.



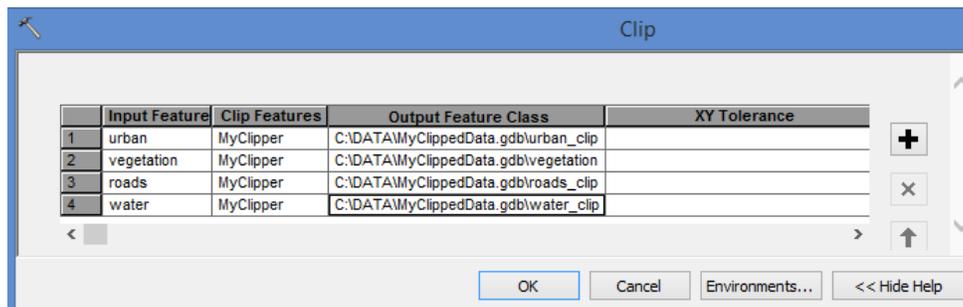
12. Click the plus sign to add another layer to be clipped and select a layer under Input Features.
 13. Add as many **Input Features** as necessary.
 14. To assign the same CLIP feature, select the rows that require filling (shift-click the row numbers, i.e. “2”, “3”, “4”), then RIGHT-CLICK the first cell under “Clip Features” and select “FILL”.



15. RIGHT-CLICK in the field below “Output Feature Class” and select “Browse...” Feature class layers must be saved in a geodatabase. Browse to a storage folder and click create **New File Geodatabase**.



16. Double-click the new geodatabase and provide a name for the clipped layer (i.e. urban_clip).
 17. Fill in the rest of the cells for **Output Feature Class**.



18. Click OK to run the tool.

19. The process may take several moments. A prompt will indicate when completed.



The following images demonstrate the results of batch clipping based on a converted graphic.

