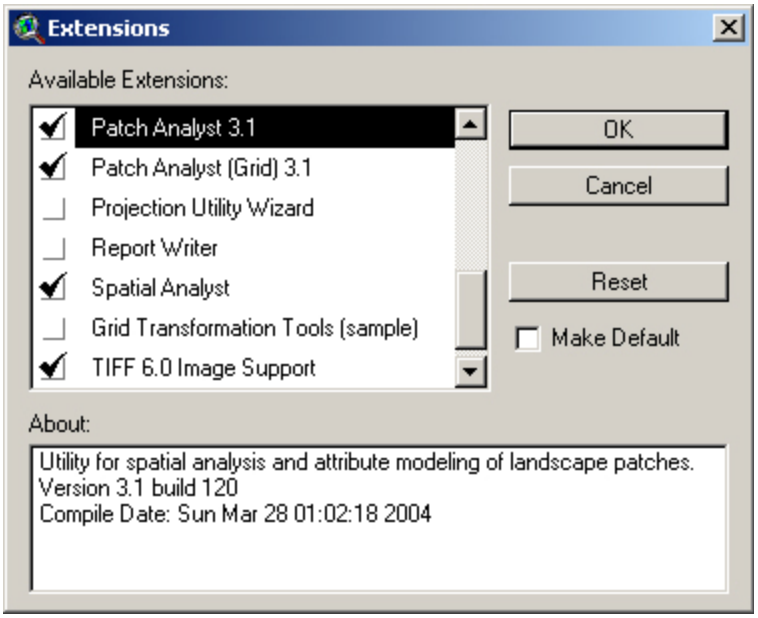
Running Patch Analyst in ArcView 3.x

1. Patxh Analyst is a Landscape Metric tool that can be used with ArcView 3.X software. To use this extension, download and install the latest version from: http://flash.lakeheadu.ca/~rrempel/patch/. Version 3.1 was used for this tutorial.

2. Open a new ArcView project, and be sure to activate the Patch Analyst extensions by choosing *File* > *Extensions…* in the drop down menu. Check Patch Analyst and Patch Analyst (Grid) as seen below. Also activate Spatial Analyst to use Grid layers for analysis.

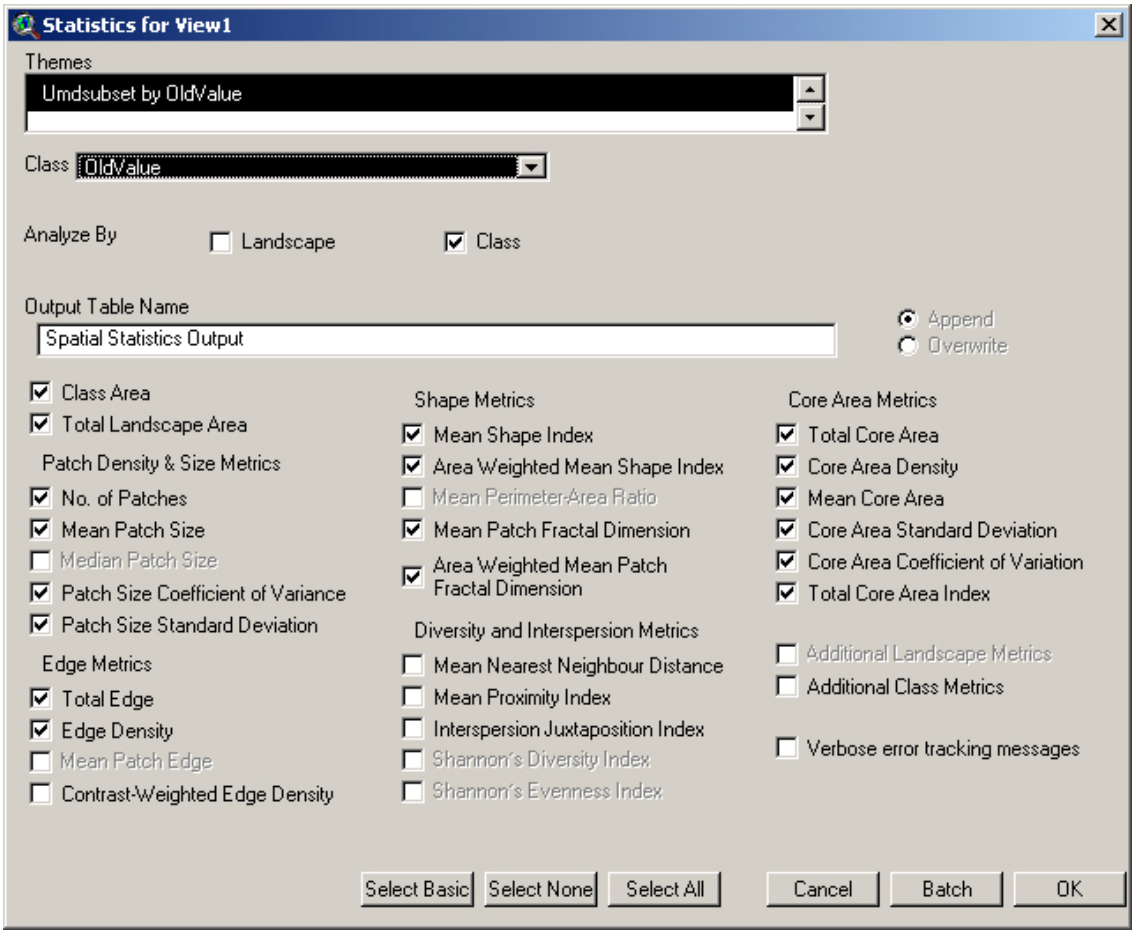


3. Open a new Viewer window in ArcView and add a land cover theme. Be sure to switch *Data Source Types* to *Grid Data Source* to add a Grid format raster layer. For the best results, use a projection that uses easy to understand distance units, such as UTM which uses meters.

4. Go to *View* > *Properties* to make sure that the view's map units are set correctly with the land cover data layer.

5. For analysis of a grid file, activate the land cover grid theme and go to *PatchGrid* > *Create Patch Theme from Grid*. Choose *Value* as the *Clumping Field*, and either 4N or 8N for the *Clumping Method*. The result of this operation is a new grid layer with an attribute table that has a unique line for every patch of similar value in the land cover theme. This is necessary to obtain landscape metrics of the patches.

6. To run the statistics for the land cover patches, highlight the new grid in the View's table of contents and choose *PatchGrid > Spatial Statistics (Fragstats Interface)*.
Here you can choose the different metrics to run on the land cover layer. To see an explanation of the different metrics, go to *PatchGrid > Patch Analyst Help* and click *Metric Definitions* on the left hand table of contents (This list is also printed out for you reference). For Class, use OldValue, this is the value of the land cover type.



7. To view the results, open the new table, it has been named according to the *Output Table Name* as seen above. Here you can see the different landscape metrics for each land cover class (listed under the heading "Class" in the table). Use the help reference to see the explanation for each of the table headers.