

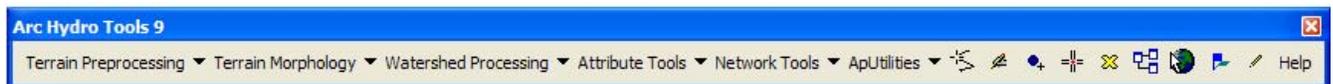
Known issues with the Massachusetts Sustainable Yield Estimator (MA SYE) tool and resolutions

There are a few known issues with the Massachusetts Sustainable Yield Estimator (MA SYE) tool and resolutions to address these issues.

Watershed delineation with the StreamStats toolbar

Issue: The StreamStats toolbar delineated a watershed for user-selected location but will not compute basin characteristics. This appears to be an issue for ArcMap 9.3 users who have recently updated their ArcHydro or StreamStatsDB.mdv version.

Resolution: Users can successfully delineate a watershed and summarize the characteristics using the ArcHydro toolbar. The only variation to the installation instructions is in step 11. Instead of using the StreamStats Setup 9 toolbar, the user will select the Global Point Delineation tool on the ArcHydro Tools 9 toolbar (pictured below above the white arrow):



↑↑
Global Point
Delineation tool

The only functionality lost by using the Arc Hydro Tools 9 toolbar in place of the StreamStats Setup 9 toolbar is the warning message that is provided when a user selects a location outside of the applicable area of the MA SYE methods, including: Cape Cod and southeastern Massachusetts, the mainstem

Connecticut and Merrimack Rivers, or if a user selects an location whose contributing basin is located partially outside of Massachusetts.

Other notes: The process to delineate a watershed remains as explained in the installation instructions except for step 11. For step 11, when the Global Point Delineation tool is first clicked, you will be prompted to enter a path to your basins directory. Select the directory that ends with \basins (the directory where your HUC folders reside), then click ok. A dialog box will then pop up. In the dialog box, set the following conditions:

- Cataloging Unit Polygon as hucpoly,
- Cataloging Unit Edge as Streams3D, and
- Cataloging Unit Junction as Point3D.

Two additional layers titled “GlobalWatershed” and “GlobalWatershedPoint” will now appear in the table of contents. These layers store the delineated basins and basin characteristics. Do not change the names of these layers.

When you begin to delineate a watershed, a dialog box will appear with the basin characteristics listed. Make sure all of the basin characteristics are checked and click ‘OK’. If you have not clicked close enough to the stream, the program will then ask if you wish to snap the location to the stream grid. Click “Yes.” Once the basin has been delineated, you will be asked to add a name and description for the basin. This name will appear in the attribute table of the GlobalWatershed layer.

Compatability issues

The MA SYE is intended to run with Arc9.x. Recent testing of the MA SYE with Arc10 were unsuccessful. If you are using Office 2007, you must email the USGS to obtain an Office 2007 compatible version of the MA SYE.