**Streamflow Photo Monitoring for Citizen Scientists**

River Advocates wants to know which rivers and streams are under stress from land use changes, pumping, and climate change. You can help us document river and stream conditions in your area, and we’ll use these records to seek improvements in streamflow. All you need is a cellphone with a decent camera and a way to safely get to the bridge over your adopted stream. You can download an app (see instruction below) to photo-record the conditions once a month and submit them instantly. If you don’t have a cellphone, you can use your camera and take note of location, date and observer and send your photos in with the survey information.

When you go, you’ll need to watch out for cars, avoid standing on private property, and shoot one photo upstream and one downstream from the edge of your bridge. If there is a stream gage, take a 3rd photo showing the gage, so we can use it to estimate flow. It helps if something in the photo shows scale: another person, your dog or familiar object in view on the bridge. You can easily enter your survey photos and information through your cell phone, or send them to us at River Advocates. Pick your choice of priority stream crossings below.

**Pick a photo-monitoring site--Mill River stream crossings (request of Mill River Watershed Association) :**

1.Wallingford Rd., Cheshire near Woodpond Rd. (just below Cheshire Hillside Cemetery)

2.Jinny Hill Rd., Cheshire

3.Mansion Rd., Cheshire

4.Cook Hill Rd., Cheshire

5.Old Lane Rd, Cheshire (just after entry of Fresh Meadows tributary)

6.Jepp Brook at Willow St. (tributary of Mill R.)

7.Mill River at River Rd. (Butterworth Brook tributary comes in from Tuttle Ave and Mansion Rd.)

8.Eaton Brook tributary at Rte 10 crossing –empties into Mill R. just south of Wentworth’s

9.Fresh Meadow tributary--crosses Cook Hill Rd. west of Pine Brook Ct.

**Visit your site once a month.** Submit your photos and enter date and surveyor information through the Trout Unlimited RIVERS survey app for cell phones. When it asks for the local Trout Unlimited (TU) chapter, enter “Hammonassett “ (Mill, West and Quinnipiac Rivers are located in that region of TU). When it asks for general disturbance type, enter “streamflow.”

 If you can’t use the cellphone app, send your camera photos with your name, date, stream/river name, street crossing, direction (upstream or downstream), and photo of gage, if present, to:

marymushinsky@att.net subject: streamflow project

**How to get the survey app for your cellphone**:

1. Download **Survey123** for ArcGIS mobile app to your phone (either App Store with iphone, or Google Play with Android phone). The app looks like a notebook with a checkmark.
2. Download the RIVERS survey form within the Survey123 for ArcGIS app
3. Click “open in the Survey 123 field app”. Ignore the “sign in to ArcGIS online” message if it appears.
4. RIVERS is periodically updated. If you need to re-download, delete the RIVERS survey from your Survey123 app, and download it again per above.

We tried it and it works well in the field! Have fun, and **thank you** for being a citizen scientist!