

## Catch the Hatch

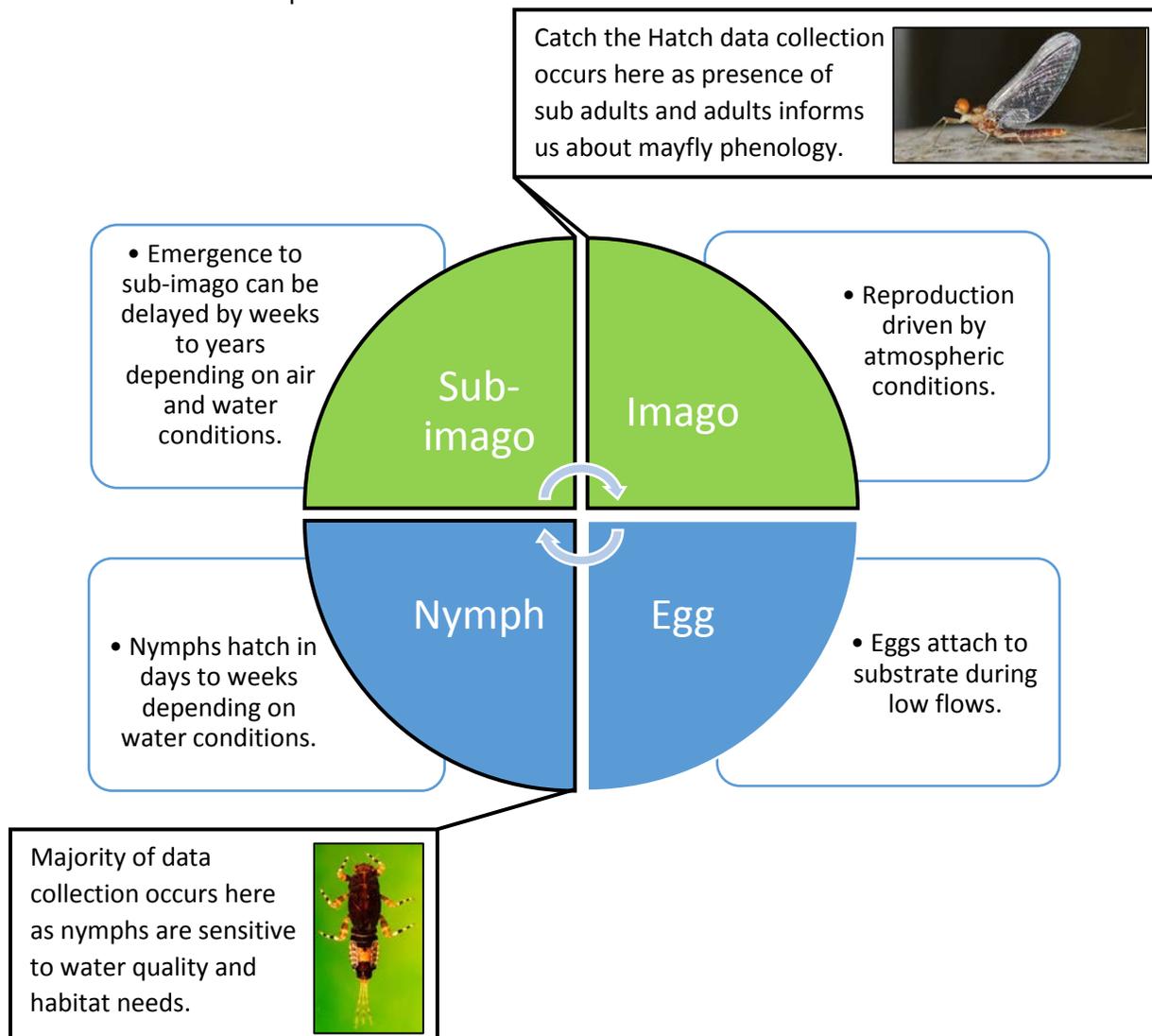
While mayflies are critical to our watersheds, science does not do a great job at measuring adult mayfly emergence. Most mayflies are measured in their larval phase because they are easier to sample and identify. Yet adult emergence is critical for reproduction and as a food source for trout. Mayfly biodiversity is also threatened by pollution and climate change. As a community that knows and loves our bugs, lets help science better understand our mayflies into the future.

Join the second year of Catch the Hatch by becoming a data catcher this June 15 through July 15!

## Why are we doing it?

Mayflies are important indicators of watershed health. Their life stages are both aquatic and terrestrial, and are driven by dynamic watershed processes such as flow and water temperature.

On the diagram below we discuss drivers behind the mayfly lifecycle and why understanding all stages of mayfly phenology is important. Science generally measures mayfly biodiversity at the aquatic nymph stage, yet terrestrial emergence is critical for successful reproduction, as prey for fish, and is highly sensitive to watershed impacts.



## Catch the Hatch Project Details

This summer we will be tracking sub adult and adult Pale Morning Duns (PMDs), a conspicuous mayfly species known and loved by anglers and fish alike.

Citizen scientists will visit three pre- selected sites from June 15 to July 15:

- **Boulder Creek** at Memorial Park
- **Left Hand Creek** at Buckingham Park
- **N. St. Vrain Creek** at Button Rock

Locations can be found online at:

<https://lwog.org/programs/stewardship/catch-the-hatch>

*Sites are located within similar watershed locations and have public fishing access. **Bring your rod!***

## Volunteer Data Catcher Details

### Learn more!

- All project details are online at <https://lwog.org/programs/stewardship/catch-the-hatch>

### Join the effort!

- Check your availability from June 15 to July 15
- Sign up for site(s) and observation days on or website above or contact us.

### Train and get the gear!

- We'll provide you the gear and necessary training!
- Sign up for a guided or self-guided virtual training on our website above.
- Sign up for a gear pickup or delivery on our website above.

### Collect data!

- **Observe.** During your visit to the site, observe for emerging and adult PMDs.
- **Capture.** Use net & guide to ID sub adult and/or adult PMDs.
- **Record.** Presence or absence of PMDs using data sheets and online data entry via [citsci.org](http://citsci.org).
- **Store.** If sub adult and/or adult PMDs are present, store one in a project vial.
- **Celebrate.** Return your data sheets and gear. Feel good that while you were enjoying your watershed you were also contributing to science!

### Looking Forward!

- Receive a project report that summarizes PMD presence related to flow and temperature at each site.
- Data will be used to help answer scientific research questions about emergence and adult phenology.
- Data will be used to validate a community approach for tracking emergence.

### Contact Us:

- For questions, comments, or assistance, please contact Deb Hummel at [dhummel@lwog.org](mailto:dhummel@lwog.org) or 720-818-4573