

# MAYFLY

## *EPHEMERA SIMULANS*

---

THE MAYFLY COMES FROM THE ORDER EPHEMEROPTERA, THE FAMILY EPHEMERIDAE, THE GENUS *EPHEMERA*, AND THE SPECIES *EPHEMERA SIMULANS*. THEY HAVE 2 ADULT STAGES, BOTH OF WHICH ARE WINGED, SHORT LIVED, AND HAVE NO FEEDING. THEY ARE KNOWN FOR THEIR SHORT-LIVED (EPHEMERAL) ADULT PHASE, WHICH USUALLY LASTS FROM TWO HOURS TO THREE DAYS.



THE OTHER ADULT STAGE, KNOWN AS SUBIMAGO, IS A STAGE OF SEXUAL MATURATION WHERE THE WINGS BECOME SEMI-OPAQUE AND ARE COVERED IN MINUTE HAIRS, WITH LONGER SETAE ON THE MARGINS.

AS AN AQUATIC INSECT, MAYFLIES LIVE IN STREAMS, RIVERS, LAKES, AND OTHER BODIES OF WATER. THEY ARE MOST COMMONLY FOUND IN COOL, CLEAN HEADWATER STREAMS, WHERE THEY ARE AN IMPORTANT SOURCE OF FOOD FOR FISH. NYMPHS, HOWEVER, ARE GENERALLY FOUND IN SHALLOW STREAMS AND LITTORAL AREAS OF LAKES.



NYMPHS MAY ALSO LIVE IN UNPOLLUTED LAKES, PONDS, STREAMS AND RIVERS WHERE, WITH DENSITIES OF UP TO 10,000/SQ.METRE, THEY CONTRIBUTE SUBSTANTIALLY TO SECONDARY PRODUCTION.

# PHOTOGRAPHING

---

## EQUIPMENT:

- SPECIMEN
- PETRI DISH
- COPY STAND
- FIBER OPTIC LIGHTS
- NIKON SB900
- FLASH SYNC CORD
- 2 LAB JACKS
- NIKON D7000
- BELLOWS
- 2-3 THIBLE  
LENSES OF  
APPROPRIATE FOCAL  
LENGTH
- WOODEN BLOCKS



# PROCEDURE:

TO PHOTOGRAPH MY SUBJECT I FIRST PLACED HIM IN A CLEAN PETRI DISH, AND THAN PLACED THE PETRI DISH ON TOP OF TWO WOODEN BLOCKS, LEAVING SPACE OPEN UNDERNEATH THE DISH SO THAT I COULD LIGHT THE SUBJECT FROM BELOW. I THAN PLACED THE PETRI DISH AND TWO WOODEN BLOCKS ON A LAB JACK IN ORDER TO HAVE THE ABILITY TO MOVE THE SUBJECT

UP AND DOWN SO THAT I COULD HAVE IMAGES TO STACK. I USED A COPY STAND TO SUSPEND MY CAMERA ABOVE THE SETUP, WITH A BELLOWS AND TWO DIFFERENT THIMBLE LENSES. I THAN USED TWO FIBEROPTIC LIGHTS TO LIGHT THE TOP OF MY SUBJECT, AND A NIKON SB 900 PLACED ON A SECOND LAB JACK, TO ILLUMINATE THE SUBJECT FROM UNDERNEATH.







ARTICLE AND  
IMAGES WRITTEN, TAKEN,  
AND PRODUCED BY  
©MAGGIE GRANZIER  
BIOMEDICAL  
PHOTOGRAPHIC  
COMMUNICATIONS,  
ROCHESTER  
INSTITUTE OF  
TECHNOLOGY  
MAG3423@RIT.EDU  
410-842-5354

SOURCE: [HTTP://LAKES.CHEBUCTO.  
ORG/ZOOBENTH/BENTHOS/III.  
HTML](http://lakes.chebucto.org/zoobenth/benthos/III.html)

