

# Salmon in the Classroom

## *Year at a Glance*



# September



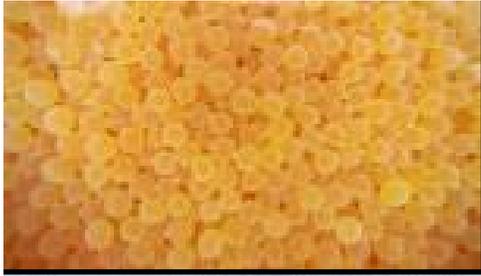
# September

- Returning Teachers receive Scientific Collector's Permit & two-sided stocking permit if, and only if;
  - Stocking report was mailed in to Polly Gray the previous spring



# September

## Green Eggs vs. Eyed Eggs



- **Green Eggs**

- Returning teachers only
- Requires trip to;
  - Little Manistee Weir
  - Swan River Weir
- Small and variable window for egg pick up
- 300 eggs
  - Pro = Students see entire life cycle
  - Con = Less treatment, more potential for mortality

- **Eyed Eggs**

- New and returning teachers
- Requires trip to;
  - Wolf Lake
  - Southeast Michigan (Lake Orion)
  - Platte (Beulah)
  - Thompson (Manistique)
- Pre-set dates for egg pick up
- 200 eggs
  - Pro = More treatment, better potential for survival
  - Con = Students do not see entire life cycle



# September

## Green Eggs



- Set up tank at least **TWO WEEKS** prior to egg pick up using *Setting up Your Tank Guidelines* (page 15)



*Tank Temperature = 47 degrees Fahrenheit*

# September

## Green Eggs



1. Check out *Egg Pick Up Procedure* online (updated every September) at [www.michigan.gov/sic](http://www.michigan.gov/sic)
2. Contact Fisheries Biologist or SIC Program Coordinator for details, per instructions

**Michigan Department of Natural Resources**

**Egg Pick-up Procedures and Dates (NEW every September)**

**GREEN EGGS (Returning teachers only)**

**Little Manistee Weir, Manistee**  
Scott J. Irmizehman, Fisheries Technician Supervisor  
(231) 389-2551  
[irmizehman@michigan.gov](mailto:irmizehman@michigan.gov)  
October 3 - 7  
Call for specific details.

**Swan River Weir, Rogers City**  
Pat Vandocke, Fisheries Technician Supervisor  
(989) 732-3541  
[vandocpe@michigan.gov](mailto:vandocpe@michigan.gov)  
Call for specific details.

**EVERY EGGS (First year teachers will receive eggs at the end of their workshop)**  
**Wolf Lake State Fish Hatchery, Mallowan, MI**  
(No pre-scheduled appointment is necessary)  
Elizabeth Hughes, Hatchery Biologist  
[hugheseli@michigan.gov](mailto:hugheseli@michigan.gov)  
November 7 - 13  
Weekdays 8 a.m. - 3:30 p.m.  
Saturdays 10 a.m. - 2 p.m.

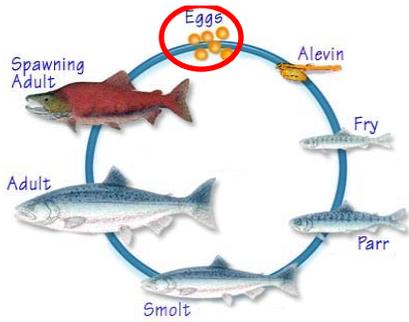
**Plate River State Fish Hatchery, Beulah, MI**  
(No pre-scheduled appointment is necessary)  
Karen Swartz, Hatchery Biologist  
[swartzkar@michigan.gov](mailto:swartzkar@michigan.gov)  
November 9 - 10  
8 a.m. - 3:30 p.m.

**Thompson State Fish Hatchery, Ellettsburg, MI**  
Randy Espinosa, Hatchery Biologist  
[espinosa@michigan.gov](mailto:espinosa@michigan.gov)  
Call for specific details.  
November 16-22



# October





# October

Green Eggs



## Pick up eggs

- Typically first full week of October

**October**

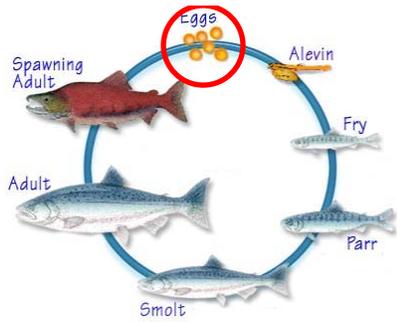
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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

## Properly Acclimate Eggs

- Remove 25% of water from bag/container
- Replace with same amount of water from aquarium
- Float the bag in tank
- Repeat every 10 – 15 minutes for approximately 1 hour
- Water temperature should be within 2 degrees of each other to safely add eggs to aquarium



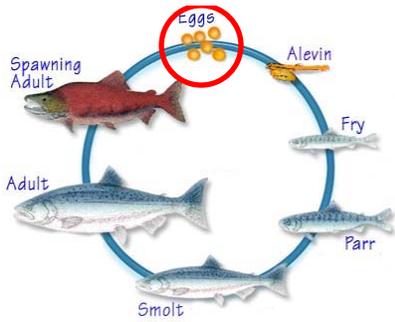


# October

## Eyed Eggs

- Set up tank two weeks prior to egg pick up
- Check out new *Egg Pick up Procedure* on the SIC website at [www.michigan.gov/sic](http://www.michigan.gov/sic)





# October

## Green Eggs



- Maintain tank temperature of 47
- Record observations and monitor water quality on *Tank Maintenance Chart (page 19)*
- Remove dead eggs



Use tweezers to  
remove dead  
eggs



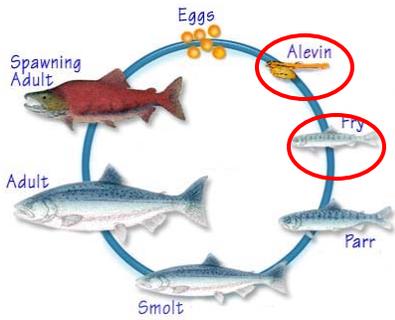




# *January*







# January



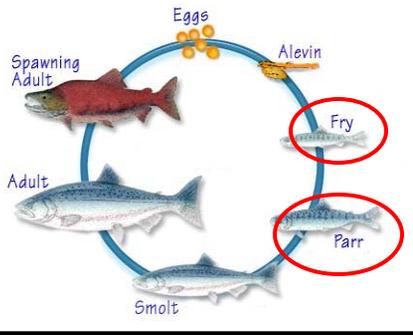
## Troubleshooting

- Fish lying on bottom of tank or swimming sideways.
  - What is EMS?
- Fish not uniform in size

## Tank Maintenance

- Change water 2x week
- Siphon waste and uneaten food daily
- **Closely monitor water quality**
  - Ammonia
  - Nitrate/nitrite



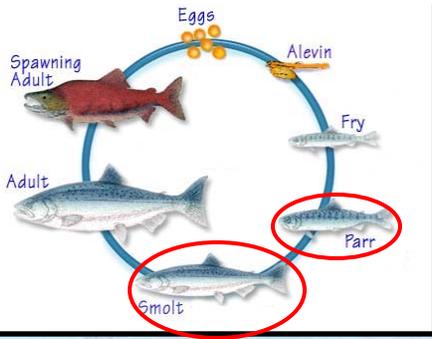


## January ~ February ~ March ~ April ~ May



- Continued Tank Maintenance
  - Water changes at least 2x week
  - Siphon waste and uneaten food daily
- Observe salmon for behavioral changes
- Monitor water quality
- Feed fish daily
- Make preparations for feeding over spring break

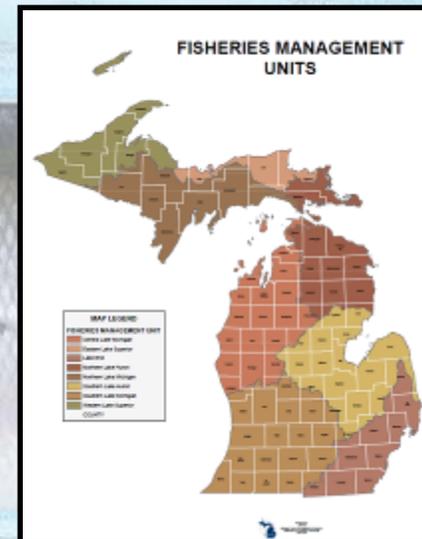




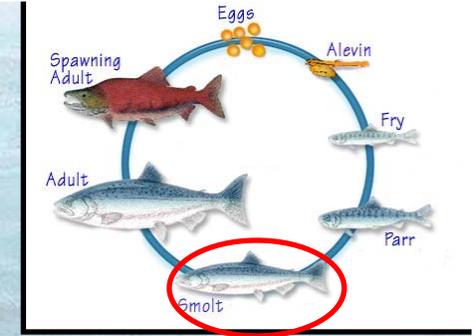
# April



- Look for latest issue of *Salmon Sense* via email
- Smoltification begins; fish begin losing “parr marks” and become more silvery in appearance
- Begin preparation for **Salmon Release**
  - Determine what FMU you are located in
  - Choose pre-approved stocking location within your FMU
- Feed salmon over spring break



# May



- Follow instructions in “*Releasing Your Salmon*”  
(page 23)
- Tips:
  - *The less time in the bucket, the better*
  - *Aerate or ice bucket*
  - *25 – 30 fish per 5 gallon bucket*
  - *Acclimate fish to river water*





[http://www.michigan.gov/dnr/0,1607,7-153-10369\\_50075---,00.html](http://www.michigan.gov/dnr/0,1607,7-153-10369_50075---,00.html)

## Within 2 weeks of Salmon Release

- Send in Stocking Report & Questionnaire to Polly Gray at [grayp@michigan.gov](mailto:grayp@michigan.gov) or

**MICHIGAN DNR**

**Attn: Polly Gray**

**530 West Allegan Street**

**Mason Building, 6<sup>th</sup> Floor**

**Lansing, MI 48933**



# *Questions?*

