

# **Chapter 9:**

# **Record Keeping**

*(back to table of contents)*

# Record Keeping

## Before the eggs arrive:

1. Instruct students on how to conduct a daily inspection of the aquarium;
2. Show them how to make sure the equipment is working properly and how to read and record the temperature;
3. It is best if you organize biologist teams and assign times for each to monitor and record the aquarium information;
4. Explain that when the eggs arrive, they will also be checking for egg mortality;
5. Assign three students to conduct the inspection twice daily for a week;
6. At the end of the week rotate out one student and put a new student in. This way, after the first week, you will always have two students with experience in conducting the inspection.

*Have students inspect the aquarium early in the morning and at the end of the day and record their findings on the daily inspection record and on the progress chart.*

*Record keeping is an essential part of the program. Records can identify potential problems and can be used to reference experiences from past years. Students should record everything that is done or observed.*

For example:

- Dates
- Name of individual(s) conducting the tests and feeding the trout
- Time trout were fed to avoid overfeeding
- Feeding amount
- Temperatures
- Egg/alevin/fry numbers
- Problems and solutions
- Water quality testing results
- Mortality
- Observations: hatching, predation, etc.

You can use the following daily inspection record and progress reports that follow or have students create recording sheets of their own. In addition, progress reports can be posted on the Trout in the Classroom yahoo forum.

[\(back to table of contents\)](#)

# Monitoring Records

**DAILY INSPECTION RECORD**

Week of: \_\_\_\_\_

Inspectors' Names: \_\_\_\_\_

	CHECK THE FOLLOWING				RECORD DATA:				
	Chiller is plugged in	Air pump is plugged in	Water is clear	Water level is correct	Temperature (F)	pH	Ammonia (mg/L)	# of eggs/trout removed	Initials
<b>Monday</b>									
<b>Wednesday</b>									
<b>Friday</b>									

**At the end of the week, you must calculate the following:**

**Average temperature:** \_\_\_\_\_

**Average pH:** \_\_\_\_\_

**Average ammonia:** \_\_\_\_\_

**Total mortality (# of eggs/trout removed):** \_\_\_\_\_

*(back to table of contents)*

# Monitoring Records

## Report of Operations

Teacher \_\_\_\_\_ School: \_\_\_\_\_  
Species: \_\_\_\_\_ Phone #: \_\_\_\_\_  
# of Eggs Received: \_\_\_\_\_ Grades: \_\_\_\_\_

Date	Mortality		Water				Comments
	Egg	Fry	Temp	pH	Ammonia	Water Changed	

Total Egg Mortality: \_\_\_\_\_ Number Fry Released: \_\_\_\_\_  
Total Fry Mortality: \_\_\_\_\_ Release Site/Stream: \_\_\_\_\_

[\(back to table of contents\)](#)

# Monitoring Records

## Equipment Inspection Record

Date: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Chiller unit plugged in \_\_\_\_\_  
 Powerhead plugged in \_\_\_\_\_  
 Air Pump plugged in \_\_\_\_\_  
 Powerhead and Air Pump operating properly \_\_\_\_\_  
     Water at correct level \_\_\_\_\_  
     Even flow \_\_\_\_\_  
     Bubbles evident \_\_\_\_\_  
 Water \_\_\_\_\_  
     Clean \_\_\_\_\_  
     pH within acceptable range \_\_\_\_\_  
 Mortalities removed and recorded \_\_\_\_\_  
 Comments: \_\_\_\_\_

Inspector's Signature \_\_\_\_\_

## Equipment Inspection Record

Date: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Chiller unit plugged in \_\_\_\_\_  
 Powerhead plugged in \_\_\_\_\_  
 Air Pump plugged in \_\_\_\_\_  
 Powerhead and Air Pump operating properly \_\_\_\_\_  
     Water at correct level \_\_\_\_\_  
     Even flow \_\_\_\_\_  
     Bubbles evident \_\_\_\_\_  
 Water \_\_\_\_\_  
     Clean \_\_\_\_\_  
     pH within acceptable range \_\_\_\_\_  
 Mortalities removed and recorded \_\_\_\_\_  
 Comments: \_\_\_\_\_

Inspector's Signature \_\_\_\_\_

## Equipment Inspection Record

Date: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Chiller unit plugged in \_\_\_\_\_  
 Powerhead plugged in \_\_\_\_\_  
 Air Pump plugged in \_\_\_\_\_  
 Powerhead and Air Pump operating properly \_\_\_\_\_  
     Water at correct level \_\_\_\_\_  
     Even flow \_\_\_\_\_  
     Bubbles evident \_\_\_\_\_  
 Water \_\_\_\_\_  
     Clean \_\_\_\_\_  
     pH within acceptable range \_\_\_\_\_  
 Mortalities removed and recorded \_\_\_\_\_  
 Comments: \_\_\_\_\_

Inspector's Signature \_\_\_\_\_

## Equipment Inspection Record

Date: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Chiller unit plugged in \_\_\_\_\_  
 Powerhead plugged in \_\_\_\_\_  
 Air Pump plugged in \_\_\_\_\_  
 Powerhead and Air Pump operating properly \_\_\_\_\_  
     Water at correct level \_\_\_\_\_  
     Even flow \_\_\_\_\_  
     Bubbles evident \_\_\_\_\_  
 Water \_\_\_\_\_  
     Clean \_\_\_\_\_  
     pH within acceptable range \_\_\_\_\_  
 Mortalities removed and recorded \_\_\_\_\_  
 Comments: \_\_\_\_\_

Inspector's Signature \_\_\_\_\_

[\(back to table of contents\)](#)

