

# FEEDING TINY FRY



**WHAT TO FEED BEFORE BABY BRINE SHRIMP**

By Chase Klinesteker

# A COMMON PROBLEM

- One of the most difficult aspects of raising many species of tropical fish is feeding tiny fry that are too small to take newly hatched brine shrimp
- Often small foods are fed too soon or in excesses that pollute the water (tiny fry don't eat much). Feed frequently but in tiny amounts, and add snails to clean. A sponge filter and aeration can help
- Fine foods are often not kept in suspension and in front of the fry. Many will not search for food. Use light bubbler to keep particles in suspension
- Fry are usually more sensitive to pollution than adults and need frequent water changes. Put fine nylon over siphon intake to avoid removing fry

# MANY SPECIES HAVE VERY TINY FRY. THIS INCLUDES SOME:

- RAINBOWS
- TETRAS
- RASBORAS
- GOBIES
- DISCUS
- UARU
- BARBS
- CATFISH
- ANABANTOIDS
- DWARF CICHLIDS
- KILLIEFISH
- WHITE CLOUDS
- DANIOS

# RAINBOWS



Millennial Rainbow (*Glossolepis pseudoinciscus*) fry under microscope

Some rainbow fry are extremely small and may take 2 or more weeks on very tiny foods before they can accept newly hatched brine shrimp (e.g. *Melanotaenia* and Threadfin Rainbow).

# MADAGASCAR RAINBOW



*Bedotia geayi* is a beautiful and popular rainbowfish that lays eggs in spawning mops. Newly hatched fry usually require several days on small foods before they can eat baby brine shrimp.



# DWARF RED NEON RAINBOW



*Pseudomugil* c.f. *paskai* (*iriani*) fry need 3-4 days on tiny foods. Many *Pseudomugil* species fry will take baby brine shrimp when free-swimming

# CELEBES RAINBOW



*Marosatherina ladigesii* eggs hatch in 5-10 days. Once free-swimming, the fry will need tiny foods for about 1 week

# DIPTAIL PENCILFISH



Nannostomus eques fry require 4-5 days on tiny foods. In this 100 power magnification, a baby brine shrimp would be larger than the frys' head



# BLUE TETRA



*Boehlkea fredcochui* fry need tiny foods for 5 or more days. They are very reclusive, transparent, and difficult to see.

# KING TETRA



*Impaichthys kerri* fry avoid light and need tiny foods for 3-4 days

# VARIANCES

- If and how long a given species' fry need tiny foods can vary some due to:
  - ----Breeding stock vitality
  - ----How long in domestic cultivation
  - ----Foods fed to breeders
  - ----Technique of aquarist
  - ----Individual judgement
  - ----Tank environment

# BLACK NEON TETRA



*Hyphessobrycon herbertaxelrodi* fry are quite small and require a couple of days of tiny foods



# BLACK PHANTOM TETRA



**Black Phantom Tetra fry require tiny foods for 2-3 days before taking baby brine. If fed baby Brine shrimp right away, a few fry will grow fast and outcompete the others and survivors will be fewer in number.**

# GLOWLITE TETRA



*Hemigrammus erythrozonus* is a peaceful, long domesticated, and easy to breed tetra whose fry will take newly hatched brine shrimp upon free-swimming

# ORANGE FLAME TETRA



*Hyphessobrycon flammeus* is an easy to breed tetra, and the fry only require a day of tiny foods



# CONGO TETRA



*Phenacogrammus interruptus* lays large eggs, but the fry require tiny foods for 2-4 days after free-swimming. Also, the eggs hatch over 2-3 days and tiny foods may be needed for a longer time.



# ROSY TETRA



*Hyphessobrycon rosaceus* fry require 3-4 days on tiny foods before they will accept newly hatched brine shrimp

# DIAMOND TETRA



*Moenkhausia pittieri* fry require 2-3 days of tiny foods

# EMPEROR TETRA



*Nematobrycon palmeri* are not overly prolific, and the fry require at least 4-5 days on tiny foods



# RUMMYNOSE “RASBORA”



*Sawba resplendens* fry are tiny, extremely light sensitive, hard to see, and require tiny live foods for over a week



# HARLEQUIN RASBORA



*Rasbora heteromorpha* fry require at least 2-3 days on tiny foods

# UARU AND DISCUS

- Both are slow, deliberate fish where the fry eat off the parents' body slime
- The fry will not take brine shrimp right away but can be artificially fed if moving food comes to them
- Tiny food particles will be taken if there is enough water movement to keep them in suspension
- Must be sufficient food, but need frequent water changes to remove pollution

# BLACK RUBY BARB



*Barbus nigrofasciatus* fry will need 2-3 days on tiny foods. They search for bottom foods so microworms are a good choice



# NARAYANA BARB



*Puntius narayani* is a rare and difficult to breed barb. The fry will need 3-4 days on tiny foods

# PIGMY LEOPARD CATFISH



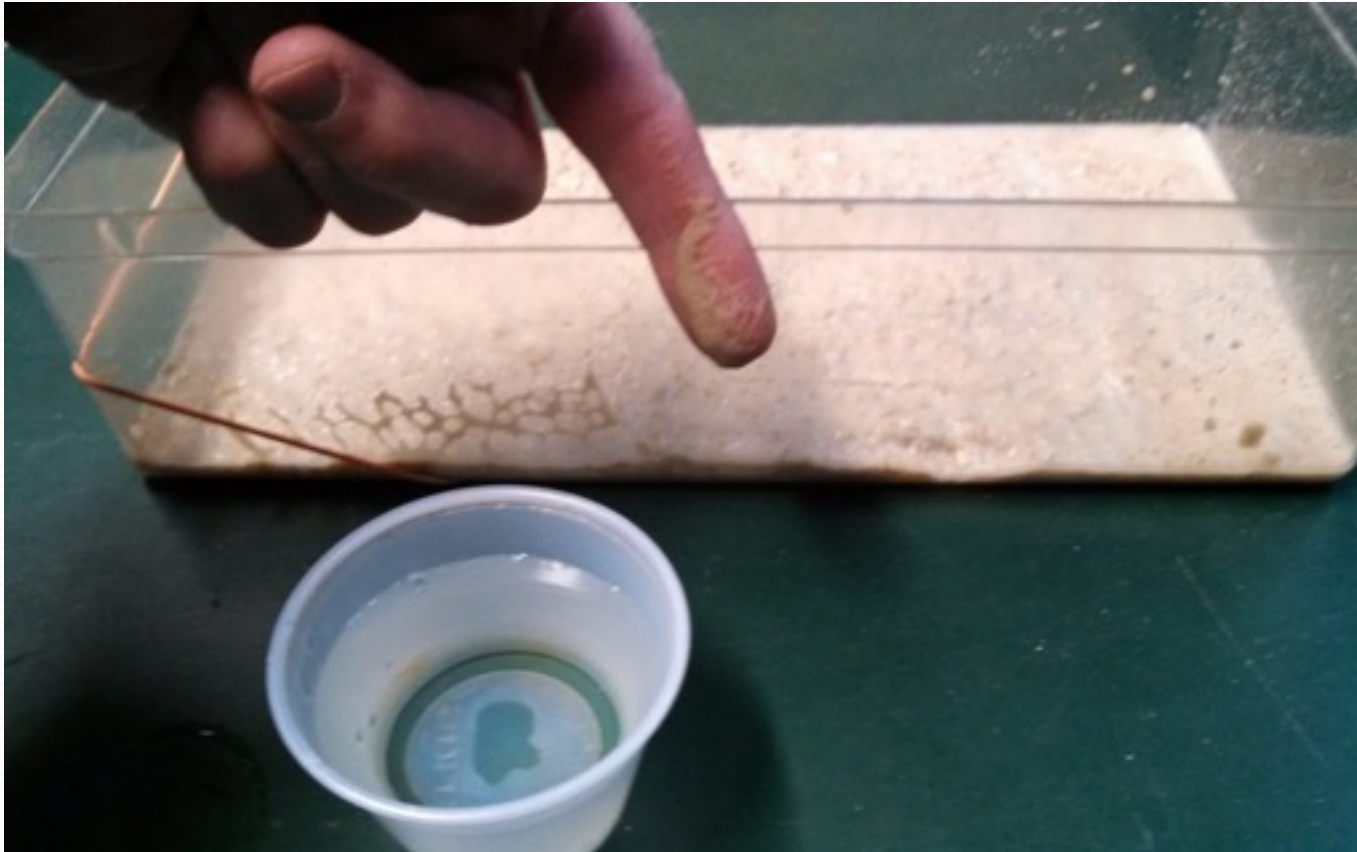
*Synodontis petricola* lays hundreds of small eggs and the tiny fry require at least 2-3 days of tiny foods. Sponge filter squeezings and microworms worked well.

# FOODS FOR TINY FRY INCLUDE:

- MICROWORMS
- VINEGAR EELS
- PARAMECIUM, INFUSORIA
- NATURAL
- SPONGE FILTER SQUEEZINGS
- FLAKE FOOD DUST, APR, DRY
- LEAF LITTER
- LIQUID DUST, LIQUIFRY
- CATFISH CONNECTION



# MICROWORMS



Use uncooked 1-minute oatmeal, moisten to soggy, add culture. Collect with finger and put in water. Use eyedropper to dispense. They will live for several hours in water. A whitish color on tank bottom indicates overfeeding.

# VINEGAR EELS

- Grow in jar of cider vinegar cut 50% with water
- Add 2 pieces of cut apple 1 inch square
- They feed on the vinegar and bacteria from the apple
- Collect at the top of the culture: need oxygen
- Easy to cultivate and very hardy
- Very tiny live food, remains suspended
- To harvest, pour through coffee filter or cotton ball

# PARAMECIUM/INFUSORIA

- Tiny, single celled animals with cilia hairs for mobility.
- Smaller than vinegar eels, remain suspended
- Culture in a gallon jar.
- Use a small rabbit pellet, corn leaf, hay, or lettuce to feed
- Cannot be seen unless use light from behind
- Harvested by removing water from culture and putting in fry tank. Add fresh water to culture



# NATURAL

- Remove all fish before introducing tiny fry
- Well established aquariums have many small microorganisms present on the plants (e.g. java moss), glass, and substrate. These will feed small numbers of fry
- The more heavily planted and longer established tanks will do better, although it is best to supplement
- Find a balance. Low air and filtration will allow the microorganisms to multiply
- Mulm present is a plus. Occasionally stir it up
- Live plants make hydra growth likely after feeding brine shrimp

# SPONGE FILTER SQUEEZINGS

- Take an established, working sponge filter and squeeze part of it out into a small pan of water. The resulting suspended mulm contains microorganisms that will feed tiny fry when added to the fry tank.
- Watch fry bellies to see if eating enough. Add more squeezings if needed
- Occasionally stir up settled mulm with stick or baster to put food back in suspension for fry

# FLAKE FOOD DUST, APR, DRY

---Crush flake food (50% spirulina) with mortar and pestle, add some APR for tiny fry, and put in a squeeze bottle to blow small amounts of the dust on the water surface.

---Works well for all surface feeders, especially rainbows, anabantoids, and danios

---Keep light water movement with air to break surface tension and spread out food

---Use snails to help clean up





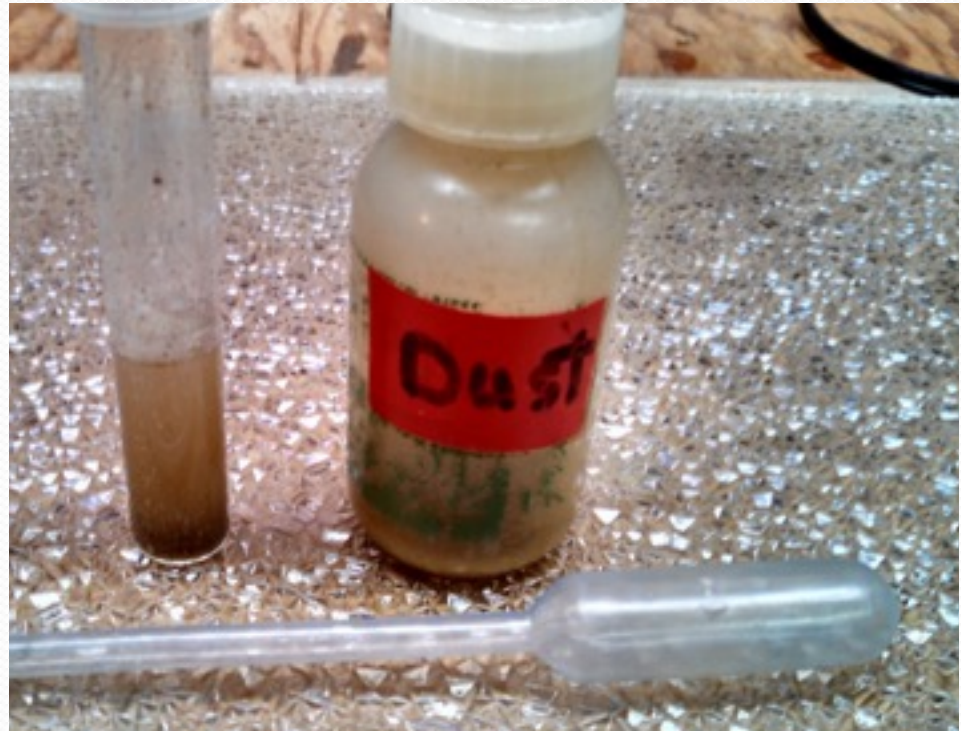
# LEAF LITTER

- Leaf litter is a natural for almost all waters, and its' decay produces films of tiny organisms to feed fry
- Oak leaves will tint the water with tannins, which soften and acidify it. This is especially helpful to species from blackwater areas
- Corys, plecos, and barb fry especially like to pick at these films for food
- If tied together in a "Leaf Tree" they are not as messy and easier to remove

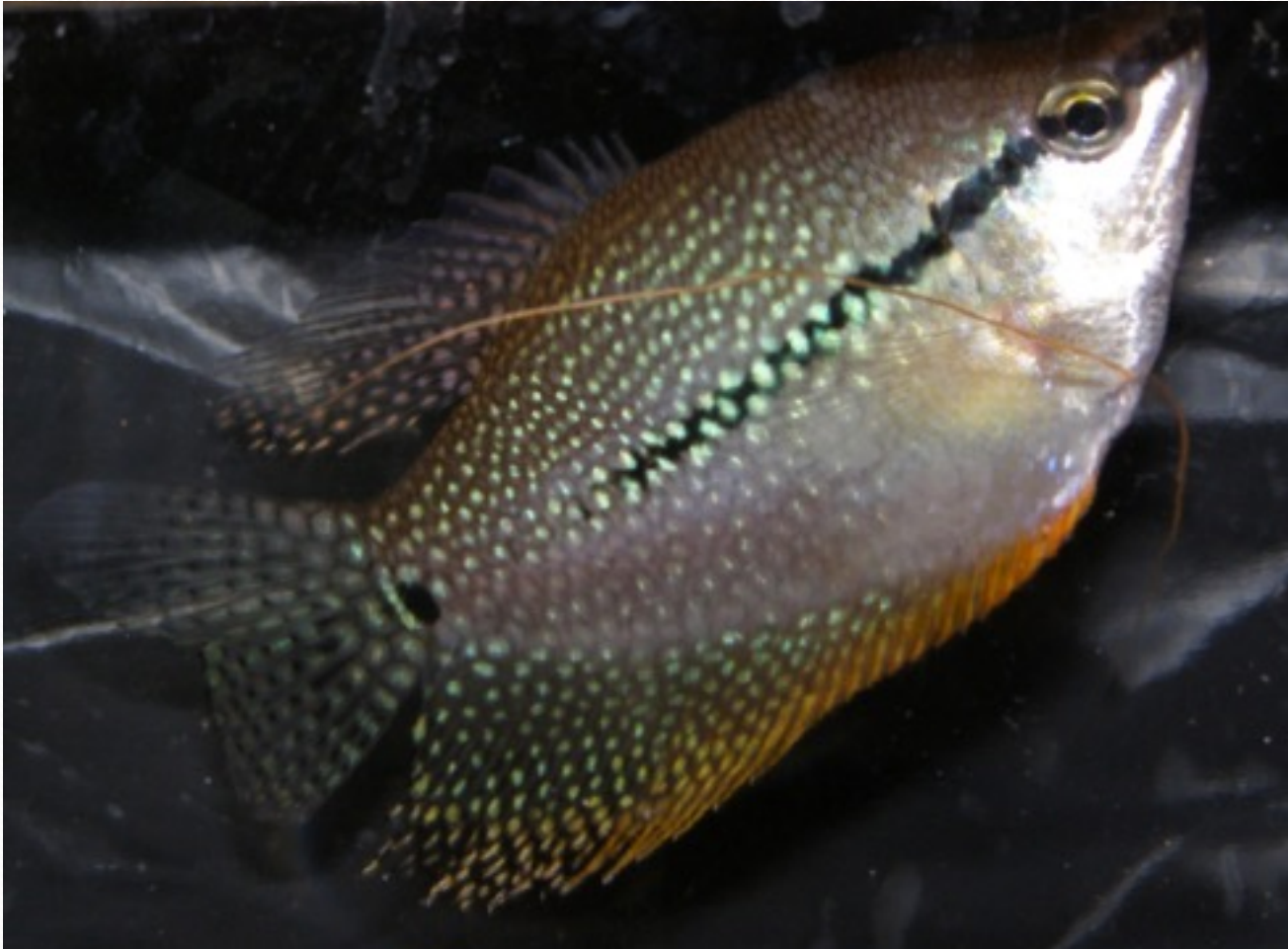


# LIQUID DUST, LIQUIFRY

- Put a small amount of the powdered flake food dust and some water in a glass cylinder and shake vigorously
- Allow the larger particles to settle out
- pour off the cloudy liquid containing suspended food and feed to the fry with an eye-dropper
- When a very slight cloudiness is noted, stop adding the suspended food
- Gentle water movement in the fry tank helps keep the particles in front of the fry
- Feed 2-3 times per day when water clears. Use snails to help clean up
- The old "Liquifry" is sold today in a tube by Wardley under the name of "Small Fry". Feed sparingly .



# PEARL GOURAMI



Trichopodus leerii and many other anabantoid fry need a week or more of tiny foods



# RED FLAME RICEFISH



*Oryzias latipes* fry can be started on microworms and soon after will take baby brine shrimp. Note male has deeper body than female



# PERSIAN PUPPFISH



*Aphanius mento* lays small eggs but a 15 day incubation and relatively large mouth of the fry allows them to eat newly hatched brine shrimp and microworms

# CLOWN KILLIE



( Pseudo)epiplatys annulatus is a small killiefish that lays extremely tiny eggs. The fry will take 1-2 weeks to get large enough to take baby brine. It is beautiful, but a difficult species to breed and raise

# GLOWLITE DANIO



Danio choprae fry have small mouths and require tiny foods for 3-4 days . They will take powdered dry food on the surface.



# CELESTIAL PEARL DANIO



*Celestichthys margaritatus* lays fairly large eggs, but the fry have small mouths and need tiny foods for 3-4 days. They do not feed on the surface



# CATFISH CONNECTION

Corydoras  
sterbae



One of the easiest ways to raise surface swimming tiny fry (danios, rainbows, white clouds, etc.) is to place them in a tank of corydoras catfish and just feed the catfish. They cannot eat the fry on the surface and are messy eaters, leaving plenty of food particles for the fry.

# WHEN TO START BABY BRINE

- Start with a drop and look for orange bellies. If so, use more drops.
- If less than half the fry cannot eat them, go back to tiny foods
- Use a combination until all fry have orange bellies, then discontinue tiny suspended foods
- If eaten, powdered surface foods can still be used
- Remember, overfeeding should be avoided. They have tiny stomachs and excess food will pollute the water. Feed small amounts 2-3 times per day
- Excess baby brine shrimp will encourage hydra growth
- For bottom feeders, microworms can now be used

# ORANGE BELLIES



Red Neon Rainbow fry after beginning on baby brine shrimp

# THE END



Fishing website: [chasesfishes.com](http://chasesfishes.com)