

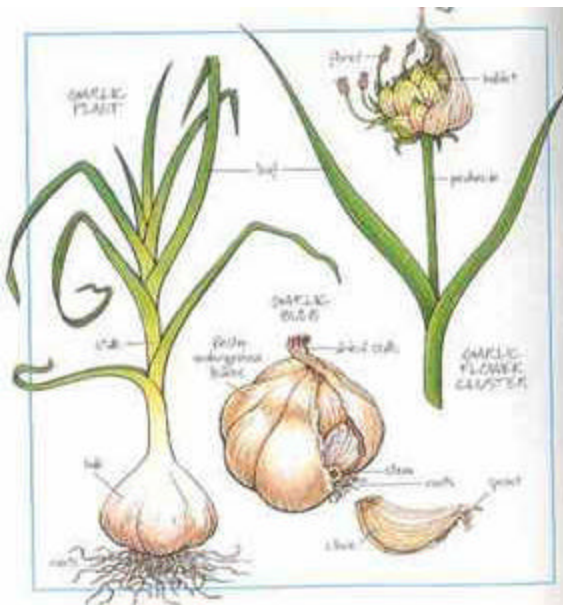


# tideline newsletter tideline aquatics

## Tideline Aquatics Store Hours

<b>Monday</b>	<b>Closed</b>
Tuesday-Friday	11am-7pm
Saturday	10am-6pm
Sunday	12pm-5pm

## FISH AND GARLIC? WHAT'S THE PURPOSE OF IT ALL??



Before we begin here we must first point out that there is no science to back up what we are about to discuss. At this point we can only guess the reasons why garlic seems to work for several serious aquarium issues. “Evidence” from other hobbyists does seem to support that garlic does have qualities that benefit our fish. So here goes....

Several years back products containing garlic began to show up on the market for use in the

aquarium as an appetite stimulant. Drops of processed garlic added to the aquarium water appears to increase the feeding habits of finicky species and/or fish that were stressed from an active disease organism in the aquarium. By chance, some folks using garlic to stimulate feeding in sick fish also noticed that the parasite issues the fish were dealing with seemed to subside. A coincidence? Perhaps but enough hobbyists are using it now and finding positive results so there must be something to it!

In freshwater aquariums and marine aquariums that do not contain live rock or invertebrates there are numerous copper treatments that have proven effective in ridding the aquarium of the parasite disease. But in a reef aquarium or a “fish with live rock” aquarium the use of copper would be deadly to the live rock and reef inhabitants. “Reef Safe” parasite treatments of all types of concoctions are on the market but we have found very little success with ALL of them. They seem to show signs of improvement at first only to have the fish quickly overcome with parasites days later. But garlic additions to the food and to the aquarium water have shown major improvements in fish aquariums with marine ich (white spot disease). This is how it is believed to work....

The white spots you see on your fish during a parasite outbreak are actually cysts containing the parasite. The parasite (called a trophont at this stage) feeds on the tissue of the host fish growing until it bursts through the cyst wall and drops to the bottom of the aquarium where it multiplies into hundreds more juvenile ich infecting parasites (called tomites at this stage).

These tomites then swarm the aquarium in search of a new host fish thus starting the cycle all over again. As more and more parasites reproduce in the aquarium the fish are quickly overcome and begin to die. This free-swimming tomite stage is when the parasite is most vulnerable. These juvenile parasites must be able to find a host fish within about 48 hours or they will die. This is where they believe the garlic comes into play. With garlic added to the water and being added to the food that is being eaten by the fish it appears to “confuse” the parasite making it more difficult for it to find a host (the garlic scent?). Without a host, the life cycle is broken and the parasites die. Even though no visible parasites may be seen on your fish you would need to continue this “treatment” for at least 30 days to ensure there are no living juvenile parasites to continue the life cycle. Perhaps too the garlic has some sort of immune booster for the fish allowing them to remain strong and not be overcome by other infections caused by the skin damage from the parasite. This is only theory but it enough hobbyists have had success with this method that it must have some validity.



If indeed this is true, garlic may also be beneficial in a quarantine aquarium where new fish are introduced (or in your main aquarium if you choose to add new fish that have not been quarantined). Perhaps adding garlic to the water and to the food for two weeks after new additions could reduce the chances of a successful ich outbreak. This may have no science to support it but if it works who really cares....

At Tideline Aquatics we are about to begin trying garlic on new additions of freshwater fish that tend to be more susceptible to ich after the stress of importation. We will let you know if we see major improvements from the use of garlic in freshwater fish too.

## MARINE FISH FEATURE: THE YELLOWHEAD PEARLY JAWFISH OF THE CARIBBEAN



Jawfish are some of the most interesting marine fish available. These peaceful reef safe marine fish dig themselves out a home within hours of being introduced to their new surroundings. Jawfish will drag empty shells, small pebbles and other “construction material” to line the outside of their home. The jawfish will hover just above its new home waiting for food to flow past. These fish have human-like qualities! They turn their heads, they look up, they open their mouth wide as if to scream at their tankmates and they eat hearty like a good American.

Right now we have plenty of the lovely Yellowhead Pearly Jawfish collected from the Caribbean. These are some of the least expensive jawfish (and they are even cheaper with this weeks web coupon) yet one of the hardiest too! Jawfish accept all types of frozen foods and even dry foods once established. Pearly jawfish can also be kept in groups successfully! Just house them with peaceful tankmates and you too have own one of these jewels of the Caribbean.

## **FRESHWATER FISH FEATURE: THE CROWNTAIL MALE BETTA**



Anyone that has or has had an aquarium is familiar with the Male Betta or Siamese Fighting Fish. Bettas are hardy fish that actually CAN be kept in an aquarium with other peaceful fish they are compatible with. One of the newer betta hybrids is the Crowntail Betta. Instead of smooth edges surrounding all fins as with the more common male betta the Crowntail Betta has wonderful extensions in the rays of every fin that even make Britney Spears envious. We have a splendid (pardon the pun) selection of these bettas in stock now with a web coupon that makes them cheaper than even standard male bettas! So if you have a nice bowl or an aquarium with inhabitants that are "betta safe" try one of these fabulous new betta hybrids (one per tank!!).

### **NEW ARRIVALS FOR THIS WEEK:**

#### **FEEDER ITEMS ON THE MENU:**

Feeder Goldfish, Feeder Guppies, Feeder Ghost Shrimp, Feeder Crayfish, Feeder Fiddler Crabs, Live Black Worms

#### **NEW FRESHWATER FISH:**

XL Pairs of German Stendker Discus (Green Turquoise x Snakeskin, Red Snakeskin, Marlboro Reds) and (36) Assorted 3"-4" German Stendker Discus, Apistogramma cacatuoides, Cuban Cichlids (*Nandopsis tetracanthus*), Keyhole Cichlids, Tilapia *Butterkopheri*, Chinese Butterfly Sucker Loaches, Banded Butterfly Sucker Loaches, *Otocinclus Dwarf Algae Eaters*,

*Turushuki Catfish*, *Sterbae Corydoras Catfish*, Clown Loaches, *Polypterus ornatipinnis*, African Tiger Pike, Fugu Pufferfish, Red Eye Pufferfish, Lg Red Cherry Shrimp, Velvet Swordtails, Black Lyretail Mollies, Red Flame Dwarf Gouramis, Round-Banded Barbs (only a small number arrived of these highly sought after *Rhomboscellatus Barbs*), Medium Firemouth Cichlids, Medium Jaguar Cichlids, Bicolor Peacock Cichlid, Chinese Algae Eaters, Gold Chinese Algae Eaters, Longfin Albino Bushynose Plecos, Clown Plecos, Bala Sharks, Bumble Bee Gobies, Banded *Leporinus*, Spotted Pufferfish, Fantail Goldfish, Fancy Chinese Goldfish, Neon Tetras, Beckfordi Pencilfish, Jumbo Black Phantom Tetras, Dwarf Frogs, Glofish, XL Flounders, Small Fire Eels, Candy Platys, Mickey Mouse Sunburst Platys, Red Wag Platys, 24k Tuxedo Platys, Dalmation Mollys, Neon Butterfly Balloon Mollys, Electric Blue Crowntail Male Bettas, Standard Mixed Color Crowntail Male Bettas, Standard Mixed Color Male Show Bettas, Celebes Rainbowfish, Super Red Cherry Barbs, Striped Pentazona Barbs, Large German Blue Rams, Medium German Blue Rams, Small German Gold Rams, M/L German Gold Rams, Tiger Oscars, Assorted Mix of Mbuna African Cichlids, Medium Black Veil Angelfish, L018 Gold Nugget Plecostomus, Mixed Mystery Snails, Zebra Nerite Snails, Banded Kuhli Loaches (this bunch is healthy), *Polypterus Retropinnis*, Medium Silver Arowanas, Motoro Freshwater Stingray, Black Skirt Tetras, Neon Tetras, Rummynose Tetras, Cardinal Tetras (few), Longfin White Cloud Mountain Minnows, Blackberry Japonica Shrimp.

#### **NEW SALTWATER FISH:**

Small Cultured Blue Tangs, Medium Cultured Blue Tangs, Lg Juvenile Koran Angelfish, Blue Spotted Jawfish, Pearly Jawfish, Red Spotted Jawfish, Bullseye Jawfish, Small Kole Tangs, Black & White *Heniochus*, XXL Sailfin Tang, XXL Clown Tang, XXL Naso Tang, Medium Naso Tang, Snowflake Moray Eels, Coral Beauty Angelfish, Flame Angelfish, Hifn Perchlet, Red Lyretail Anthias, Tierra Anthias, Lg Royal Grammas, Green Canary Blennies, Algae Blennies, Blue and Gold Blenny, Starry Blennies, Raccoon Butterflyfish, *Mertensii* Butterflyfish, Teardrop Butterflyfish, Allardi

Clownfish, Tank Bred Ocellaris Clownfish, True Black Ocellaris Clownfish, Green Chromis, Purple and Yellow Chromis, Orangetail Blue Damsel, Mandarin Dragonets, Hector's Gobies, Twospot Gobies, Dragon Gobies, Yellow Watchman Gobies, Neon Gobies, Red Neon Eviota Gobies, Trimma Gobies, Scissortail Gobies, Candy Cane Gobies, Diamond Gobies, Flame Hawkfish, Longnose Hawkfish, Springer Pseudochromis, Dogface Pufferfish, Blue Spot Pufferfish, Porcupine Pufferfish (little guys), Foxface, Desjardini Sailfin Tangs, Yellow Tangs, Starry Triggerfish, Niger Triggerfish, Humu Triggerfish, Solorensis Fairy Wrasse, Red Velvet Fairy Wrasse, Vermiculate Leopard Wrasse, Sixline Wrasse, Filamented Fairy Wrasse, McCosker's Fairy Wrasse, Red Coris Wrasse, Flagfin Angelfish, Half Black Angelfish, Blue Bellus Angelfish, Passer Angelfish, Koran Angelfish, Klausowitz's Blenny, Midas Blenny, True Percula Clownfish, Tomato Clownfish, Caribbean Jewel Damsel, Neon Velvet Damsel, Orange Striped Randall Goby, Catalina Gobies, Purple Firefish Gobies, Yashia Haze Goby, Engineer Gobies, Lg Marine Betta, Flame Hawkfish, Spanish Hogfish, Small Caribbean Volitan Lionfish, Leopard Sharpnose Pufferfish, Valentini Pufferfish, Powder Blue Tangs, Sailfin Tangs, Queen Triggerfish, Clown Triggerfish, Christmas Wrasse, Green Dragon Wrasse.

#### **NEW INVERTEBRATES AND CORALS:**

Frag: Lime Green Frogspawns, Blue and Orange Torch Corals, Blasstomussa (green & red, metallic red), Fire and Ice Zoanthids, Duncans Whisker Corals, Metallic Candy Corals, Common Candy Corals, Daisy Polyps, Purple Tip Acroporas, Awesome Acanthastreas, Cinnamon Polyps, Tons of Mixed Zoanthids, Red Montipora Capricornis.

Corals: Branching and Wall Hammer Corals, Red Velvet Lobophyllia Corals, Emerald Maze Brain Corals, Neon Orange Zoanthids, Neon Green Zoanthids, Mixed Zoanthids, Green Scolymia, Green Torch Corals, Bubble Gum Chalice, Marbled Super Chalice, Purple Aust. Acropora, Cultured Acropora, Bubble Corals, Lord Howe Acanthastreas, Candy Caulestrea, Green Montipora Danae, Plate Corals, (the reefs are stocked full!!)....

Other: Blue Leg Reef Hermits, Green Emerald Crabs (good size), Hard Tube Coco Worms, Bubble Anemones, Malu Sebae Anemones, Pizza Carpet Anemones, Mini Carpet Anemone, Sally Lite Foot Crabs, Scarlet Reef Hermits, Red Tip Reef Hermits, Coral Banded Shrimp, Golden Banded Shrimp, Caribbean Peppermint Shrimp, Cleaner Shrimp, Red Banded Pistol Shrimp, Tiger Pistol Shrimp, Green Saron Shrimp, Turbo Snails, Trochus Snails, Nassarius Snails, Cerith Snails, Cowrie Snails, Arrow Crabs, Feather Dusters, Burgundy Reef Stars, Yellow Brittle Starfish, Marbled Seahares, Common Seahares, Pin Cushion Urchins, Sand Sifting Starfish, Red Collar Snails (cool water), Maxima Clams, Squamosa Clam, Derasa Clams, Fancy Mushroom Rocks and more!!

The above livestock items are from our most recent shipments. We have many other species of fish and live corals from previous shipment as well!!